APPENDIX A

Air Quality and Greenhouse Gas Emissions Background and Modeling Data

Reseda High School Modernization

Los Angeles-South Coast County, Annual

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	94.69	1000sqft	20.87	94,695.00	1078
High School	37.80	1000sqft	8.33	37,796.00	430

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Reseda High School Modernization - Los Angeles-South Coast County, Annual

Project Characteristics -

Land Use - Data from Reseda High School Modernization IS/MND Project Description. 108 staff/1400 students.

Construction Phase - Default schedule increased proportionally to account for 2022 start and 2026 operation.

Grading - Assumes up to 50% of the site would be graded and soil would be balanced on site.

Demolition -

Trips and VMT -

Architectural Coating -

Fleet Mix -

Area Coating -

Construction Off-road Equipment Mitigation - SC-AQ-4 requires Tier 3 minimum. Fugitive dust reflects Rule 403 & SC-AQ-4.

Area Mitigation - SC-AQ-4 requires ultra-low-VOC or zero-VOC paint. Assumes 50 g/L. Gas leaf blower illegal within 500 feet of residence in City of Los Angeles.

Energy Mitigation - SC-GHG-5 20% improvement over Title 24.

Water Mitigation - SC-GHG-4

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	56.00
tblConstructionPhase	NumDays	440.00	704.00
tblConstructionPhase	NumDays	30.00	48.00
tblConstructionPhase	NumDays	45.00	72.00
tblConstructionPhase	NumDays	35.00	56.00

tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	PhaseEndDate	4/26/2024	11/3/2025
tblConstructionPhase	PhaseEndDate	1/19/2024	5/1/2025
tblConstructionPhase	PhaseEndDate	2/11/2022	3/9/2022
tblConstructionPhase	PhaseEndDate	5/13/2022	8/2/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	8/15/2025
tblConstructionPhase	PhaseEndDate	3/11/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	8/16/2025
tblConstructionPhase	PhaseStartDate	5/14/2022	8/21/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	4/23/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	5/30/2025
tblConstructionPhase	PhaseStartDate	2/12/2022	3/10/2022
tblGrading	AcresOfGrading	180.00	15.00
tblLandUse	LandUseSquareFeet	37,800.00	37,796.00
tblLandUse	LandUseSquareFeet	94,690.00	94,695.00
tblLandUse	LotAcreage	0.87	8.33
tblLandUse	LotAcreage	2.17	20.87
tblLandUse	Population	0.00	430.00
tblLandUse	Population	0.00	1,078.00

2.0 Emissions Summary

2.1 Overall Construction

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.3469	3.4602	2.8147	5.9300e-003	0.6222	0.1536	0.7758	0.3018	0.1424	0.4442	0.0000	524.0068	524.0068	0.1340	0.0000	527.3555
2023	0.2383	2.0926	2.4099	4.9400e-003	0.0978	0.0918	0.1896	0.0264	0.0864	0.1128	0.0000	435.9580	435.9580	0.0771	0.0000	437.8854
2024	0.2252	1.9828	2.4002	4.9500e-003	0.0985	0.0812	0.1797	0.0266	0.0764	0.1030	0.0000	437.0070	437.0070	0.0771	0.0000	438.9338
2025	0.7168	0.8890	1.2667	2.4200e-003	0.0407	0.0365	0.0772	0.0110	0.0341	0.0451	0.0000	213.6170	213.6170	0.0441	0.0000	214.7184
Maximum	**0.7168**	**3.4602**	**2.8147**	**5.9300e-003**	**0.6222**	**0.1536**	**0.7758**	**0.3018**	**0.1424**	**0.4442**	**0.0000**	**524.0068**	**524.0068**	**0.1340**	**0.0000**	**527.3555**

2.1 Overall Construction

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	tons/yr										MT/yr					
2022	0.1452	2.6730	3.3131	5.9300e-003	0.3102	0.1263	0.4365	0.1439	0.1262	0.2702	0.0000	524.0062	524.0062	0.1340	0.0000	527.3550
2023	0.1214	2.0719	2.6218	4.9400e-003	0.0978	0.1183	0.2161	0.0264	0.1183	0.1446	0.0000	435.9576	435.9576	0.0771	0.0000	437.8850
2024	0.1207	2.0853	2.6238	4.9500e-003	0.0985	0.1192	0.2178	0.0266	0.1192	0.1458	0.0000	437.0066	437.0066	0.0771	0.0000	438.9335
2025	0.6736	1.0473	1.4212	2.4200e-003	0.0407	0.0594	0.1001	0.0110	0.0593	0.0703	0.0000	213.6168	213.6168	0.0441	0.0000	214.7182
Maximum	**0.6736**	**2.6730**	**3.3131**	**5.9300e-003**	**0.3102**	**0.1263**	**0.4365**	**0.1439**	**0.1262**	**0.2702**	**0.0000**	**524.0062**	**524.0062**	**0.1340**	**0.0000**	**527.3550**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**30.53**	**6.49**	**-12.24**	**0.00**	**36.31**	**-16.54**	**20.61**	**43.16**	**-24.65**	**10.52**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

Quarter	Start Date	End Date	Maximum Unmitigated ROG + NOX (tons/quarter)	Maximum Mitigated ROG + NOX (tons/quarter)
1	**1-1-2022**	**3-31-2022**	1.0422	0.6930
2	**4-1-2022**	**6-30-2022**	1.3356	0.9376
3	**7-1-2022**	**9-30-2022**	0.7919	0.6272
4	**10-1-2022**	**12-31-2022**	0.6515	0.5720
5	**1-1-2023**	**3-31-2023**	0.5762	0.5422
6	**4-1-2023**	**6-30-2023**	0.5815	0.5471
7	**7-1-2023**	**9-30-2023**	0.5879	0.5531
8	**10-1-2023**	**12-31-2023**	0.5890	0.5543

9	**1-1-2024**	**3-31-2024**	0.5477	0.5472
10	**4-1-2024**	**6-30-2024**	0.5466	0.5461
11	**7-1-2024**	**9-30-2024**	0.5526	0.5521
12	**10-1-2024**	**12-31-2024**	0.5537	0.5532
13	**1-1-2025**	**3-31-2025**	0.5058	0.5400
14	**4-1-2025**	**6-30-2025**	0.2833	0.3221
15	**7-1-2025**	**9-30-2025**	0.5403	0.5807
		Highest	1.3356	0.9376

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5403	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2900e-003	3.2900e-003	1.0000e-005	0.0000	3.5000e-003
Energy	7.4300e-003	0.0675	0.0567	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	510.3813	510.3813	0.0117	3.4800e-003	511.7123
Mobile	0.3652	1.7899	5.3798	0.0231	2.1657	0.0172	2.1829	0.5803	0.0160	0.5963	0.0000	2,141.6975	2,141.6975	0.0952	0.0000	2,144.0768
Waste						0.0000	0.0000		0.0000	0.0000	34.9632	0.0000	34.9632	2.0663	0.0000	86.6198
Water						0.0000	0.0000		0.0000	0.0000	1.3957	101.9041	103.2998	0.1458	3.8800e-003	108.1008
Total	**0.9130**	**1.8575**	**5.4382**	**0.0235**	**2.1657**	**0.0224**	**2.1880**	**0.5803**	**0.0211**	**0.6015**	**36.3589**	**2,753.9862**	**2,790.3450**	**2.3189**	**7.3600e-003**	**2,850.5132**

2.2 Overall Operational

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Area	0.5096	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1500e-003	3.1500e-003	1.0000e-005	0.0000	3.3400e-003
Energy	6.1000e-003	0.0554	0.0466	3.3000e-004		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	471.5226	471.5226	0.0109	3.1200e-003	472.7228
Mobile	0.3652	1.7899	5.3798	0.0231	2.1657	0.0172	2.1829	0.5803	0.0160	0.5963	0.0000	2,141.6975	2,141.6975	0.0952	0.0000	2,144.0768
Waste						0.0000	0.0000		0.0000	0.0000	34.9632	0.0000	34.9632	2.0663	0.0000	86.6198
Water						0.0000	0.0000		0.0000	0.0000	1.1166	91.2532	92.3698	0.1168	3.1500e-003	96.2305
Total	**0.8809**	**1.8454**	**5.4280**	**0.0235**	**2.1657**	**0.0215**	**2.1871**	**0.5803**	**0.0202**	**0.6006**	**36.0797**	**2,704.4765**	**2,740.5562**	**2.2892**	**6.2700e-003**	**2,799.6532**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.51**	**0.65**	**0.19**	**0.34**	**0.00**	**4.11**	**0.04**	**0.00**	**4.35**	**0.15**	**0.77**	**1.80**	**1.78**	**1.28**	**14.81**	**1.78**

3.0 Construction Detail

Construction Phase

Reseda High School Modernization - Los Angeles-South Coast County, Annual

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	3/9/2022	5	48	
2	Site Preparation	Site Preparation	3/10/2022	4/22/2022	5	32	
3	Grading	Grading	4/23/2022	8/2/2022	5	72	
4	Building Construction	Building Construction	8/21/2022	5/1/2025	5	704	
5	Paving	Paving	5/30/2025	8/15/2025	5	56	
6	Architectural Coating	Architectural Coating	8/16/2025	11/3/2025	5	56	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 198,737; Non-Residential Outdoor: 66,246; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Reseda High School Modernization - Los Angeles-South Coast County, Annual

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	493.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0534	0.0000	0.0534	8.0800e-003	0.0000	8.0800e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0633	0.6173	0.4943	9.3000e-004		0.0298	0.0298		0.0277	0.0277	0.0000	81.5765	81.5765	0.0229	0.0000	82.1494
Total	**0.0633**	**0.6173**	**0.4943**	**9.3000e-004**	**0.0534**	**0.0298**	**0.0832**	**8.0800e-003**	**0.0277**	**0.0358**	**0.0000**	**81.5765**	**81.5765**	**0.0229**	**0.0000**	**82.1494**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0633	0.0157	1.9000e-004	4.2400e-003	1.8000e-004	4.4100e-003	1.1600e-003	1.7000e-004	1.3300e-003	0.0000	18.5672	18.5672	1.2800e-003	0.0000	18.5993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
Total	**3.4300e-003**	**0.0644**	**0.0283**	**2.3000e-004**	**8.1800e-003**	**2.1000e-004**	**8.3900e-003**	**2.2100e-003**	**2.0000e-004**	**2.4100e-003**	**0.0000**	**22.0021**	**22.0021**	**1.3700e-003**	**0.0000**	**22.0366**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.0240	0.0000	0.0240	3.6400e-003	0.0000	3.6400e-003	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0222	0.4395	0.5922	9.3000e-004		0.0207	0.0207		0.0207	0.0207	0.0000	81.5765	81.5765	0.0229	0.0000	82.1493
Total	**0.0222**	**0.4395**	**0.5922**	**9.3000e-004**	**0.0240**	**0.0207**	**0.0447**	**3.6400e-003**	**0.0207**	**0.0244**	**0.0000**	**81.5765**	**81.5765**	**0.0229**	**0.0000**	**82.1493**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	1.9800e-003	0.0633	0.0157	1.9000e-004	4.2400e-003	1.8000e-004	4.4100e-003	1.1600e-003	1.7000e-004	1.3300e-003	0.0000	18.5672	18.5672	1.2800e-003	0.0000	18.5993
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4500e-003	1.0900e-003	0.0125	4.0000e-005	3.9400e-003	3.0000e-005	3.9800e-003	1.0500e-003	3.0000e-005	1.0800e-003	0.0000	3.4350	3.4350	9.0000e-005	0.0000	3.4373
Total	**3.4300e-003**	**0.0644**	**0.0283**	**2.3000e-004**	**8.1800e-003**	**2.1000e-004**	**8.3900e-003**	**2.2100e-003**	**2.0000e-004**	**2.4100e-003**	**0.0000**	**22.0021**	**22.0021**	**1.3700e-003**	**0.0000**	**22.0366**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2891	0.0000	0.2891	0.1589	0.0000	0.1589	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0507	0.5293	0.3152	6.1000e-004		0.0258	0.0258		0.0237	0.0237	0.0000	53.5030	53.5030	0.0173	0.0000	53.9356
Total	**0.0507**	**0.5293**	**0.3152**	**6.1000e-004**	**0.2891**	**0.0258**	**0.3149**	**0.1589**	**0.0237**	**0.1826**	**0.0000**	**53.5030**	**53.5030**	**0.0173**	**0.0000**	**53.9356**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.7000e-004	0.0100	3.0000e-005	3.1600e-003	3.0000e-005	3.1800e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.7480	2.7480	8.0000e-005	0.0000	2.7499
Total	**1.1600e-003**	**8.7000e-004**	**0.0100**	**3.0000e-005**	**3.1600e-003**	**3.0000e-005**	**3.1800e-003**	**8.4000e-004**	**2.0000e-005**	**8.6000e-004**	**0.0000**	**2.7480**	**2.7480**	**8.0000e-005**	**0.0000**	**2.7499**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1301	0.0000	0.1301	0.0715	0.0000	0.0715	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0149	0.3051	0.3674	6.1000e-004		0.0151	0.0151		0.0151	0.0151	0.0000	53.5030	53.5030	0.0173	0.0000	53.9356
Total	**0.0149**	**0.3051**	**0.3674**	**6.1000e-004**	**0.1301**	**0.0151**	**0.1452**	**0.0715**	**0.0151**	**0.0866**	**0.0000**	**53.5030**	**53.5030**	**0.0173**	**0.0000**	**53.9356**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.1600e-003	8.7000e-004	0.0100	3.0000e-005	3.1600e-003	3.0000e-005	3.1800e-003	8.4000e-004	2.0000e-005	8.6000e-004	0.0000	2.7480	2.7480	8.0000e-005	0.0000	2.7499
Total	**1.1600e-003**	**8.7000e-004**	**0.0100**	**3.0000e-005**	**3.1600e-003**	**3.0000e-005**	**3.1800e-003**	**8.4000e-004**	**2.0000e-005**	**8.6000e-004**	**0.0000**	**2.7480**	**2.7480**	**8.0000e-005**	**0.0000**	**2.7499**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.2248	0.0000	0.2248	0.1200	0.0000	0.1200	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.1305	1.3984	1.0455	2.2300e-003		0.0589	0.0589		0.0542	0.0542	0.0000	196.3246	196.3246	0.0635	0.0000	197.9119
Total	**0.1305**	**1.3984**	**1.0455**	**2.2300e-003**	**0.2248**	**0.0589**	**0.2836**	**0.1200**	**0.0542**	**0.1742**	**0.0000**	**196.3246**	**196.3246**	**0.0635**	**0.0000**	**197.9119**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9100e-003	2.1800e-003	0.0251	8.0000e-005	7.8900e-003	6.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1500e-003	0.0000	6.8699	6.8699	1.9000e-004	0.0000	6.8746
Total	**2.9100e-003**	**2.1800e-003**	**0.0251**	**8.0000e-005**	**7.8900e-003**	**6.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1500e-003**	**0.0000**	**6.8699**	**6.8699**	**1.9000e-004**	**0.0000**	**6.8746**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Fugitive Dust					0.1011	0.0000	0.1011	0.0540	0.0000	0.0540	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	0.0548	1.0792	1.3220	2.2300e-003		0.0468	0.0468		0.0468	0.0468	0.0000	196.3243	196.3243	0.0635	0.0000	197.9117
Total	**0.0548**	**1.0792**	**1.3220**	**2.2300e-003**	**0.1011**	**0.0468**	**0.1479**	**0.0540**	**0.0468**	**0.1008**	**0.0000**	**196.3243**	**196.3243**	**0.0635**	**0.0000**	**197.9117**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	2.9100e-003	2.1800e-003	0.0251	8.0000e-005	7.8900e-003	6.0000e-005	7.9500e-003	2.1000e-003	6.0000e-005	2.1500e-003	0.0000	6.8699	6.8699	1.9000e-004	0.0000	6.8746
Total	**2.9100e-003**	**2.1800e-003**	**0.0251**	**8.0000e-005**	**7.8900e-003**	**6.0000e-005**	**7.9500e-003**	**2.1000e-003**	**6.0000e-005**	**2.1500e-003**	**0.0000**	**6.8699**	**6.8699**	**1.9000e-004**	**0.0000**	**6.8746**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0811	0.7417	0.7773	1.2800e-003		0.0384	0.0384		0.0362	0.0362	0.0000	110.0695	110.0695	0.0264	0.0000	110.7287
Total	**0.0811**	**0.7417**	**0.7773**	**1.2800e-003**		**0.0384**	**0.0384**		**0.0362**	**0.0362**	**0.0000**	**110.0695**	**110.0695**	**0.0264**	**0.0000**	**110.7287**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0500e-003	0.0980	0.0265	2.6000e-004	6.5800e-003	1.8000e-004	6.7700e-003	1.9000e-003	1.8000e-004	2.0800e-003	0.0000	25.5326	25.5326	1.5300e-003	0.0000	25.5708
Worker	0.0107	8.0500e-003	0.0927	2.8000e-004	0.0292	2.3000e-004	0.0294	7.7400e-003	2.1000e-004	7.9600e-003	0.0000	25.3805	25.3805	7.0000e-004	0.0000	25.3980
Total	**0.0138**	**0.1060**	**0.1191**	**5.4000e-004**	**0.0357**	**4.1000e-004**	**0.0362**	**9.6400e-003**	**3.9000e-004**	**0.0100**	**0.0000**	**50.9132**	**50.9132**	**2.2300e-003**	**0.0000**	**50.9688**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0320	0.6757	0.8490	1.2800e-003		0.0429	0.0429		0.0429	0.0429	0.0000	110.0694	110.0694	0.0264	0.0000	110.7286
Total	**0.0320**	**0.6757**	**0.8490**	**1.2800e-003**		**0.0429**	**0.0429**		**0.0429**	**0.0429**	**0.0000**	**110.0694**	**110.0694**	**0.0264**	**0.0000**	**110.7286**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	3.0500e-003	0.0980	0.0265	2.6000e-004	6.5800e-003	1.8000e-004	6.7700e-003	1.9000e-003	1.8000e-004	2.0800e-003	0.0000	25.5326	25.5326	1.5300e-003	0.0000	25.5708
Worker	0.0107	8.0500e-003	0.0927	2.8000e-004	0.0292	2.3000e-004	0.0294	7.7400e-003	2.1000e-004	7.9600e-003	0.0000	25.3805	25.3805	7.0000e-004	0.0000	25.3980
Total	**0.0138**	**0.1060**	**0.1191**	**5.4000e-004**	**0.0357**	**4.1000e-004**	**0.0362**	**9.6400e-003**	**3.9000e-004**	**0.0100**	**0.0000**	**50.9132**	**50.9132**	**2.2300e-003**	**0.0000**	**50.9688**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.2045	1.8700	2.1117	3.5000e-003		0.0910	0.0910		0.0856	0.0856	0.0000	301.3462	301.3462	0.0717	0.0000	303.1383
Total	**0.2045**	**1.8700**	**2.1117**	**3.5000e-003**		**0.0910**	**0.0910**		**0.0856**	**0.0856**	**0.0000**	**301.3462**	**301.3462**	**0.0717**	**0.0000**	**303.1383**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1900e-003	0.2026	0.0650	7.0000e-004	0.0180	2.4000e-004	0.0183	5.2000e-003	2.3000e-004	5.4300e-003	0.0000	67.6912	67.6912	3.6900e-003	0.0000	67.7834
Worker	0.0276	0.0199	0.2333	7.4000e-004	0.0798	6.2000e-004	0.0804	0.0212	5.7000e-004	0.0218	0.0000	66.9206	66.9206	1.7200e-003	0.0000	66.9637
Total	**0.0338**	**0.2225**	**0.2982**	**1.4400e-003**	**0.0978**	**8.6000e-004**	**0.0986**	**0.0264**	**8.0000e-004**	**0.0272**	**0.0000**	**134.6118**	**134.6118**	**5.4100e-003**	**0.0000**	**134.7471**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0876	1.8494	2.3236	3.5000e-003		0.1175	0.1175		0.1175	0.1175	0.0000	301.3458	301.3458	0.0717	0.0000	303.1380
Total	**0.0876**	**1.8494**	**2.3236**	**3.5000e-003**		**0.1175**	**0.1175**		**0.1175**	**0.1175**	**0.0000**	**301.3458**	**301.3458**	**0.0717**	**0.0000**	**303.1380**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.1900e-003	0.2026	0.0650	7.0000e-004	0.0180	2.4000e-004	0.0183	5.2000e-003	2.3000e-004	5.4300e-003	0.0000	67.6912	67.6912	3.6900e-003	0.0000	67.7834
Worker	0.0276	0.0199	0.2333	7.4000e-004	0.0798	6.2000e-004	0.0804	0.0212	5.7000e-004	0.0218	0.0000	66.9206	66.9206	1.7200e-003	0.0000	66.9637
Total	**0.0338**	**0.2225**	**0.2982**	**1.4400e-003**	**0.0978**	**8.6000e-004**	**0.0986**	**0.0264**	**8.0000e-004**	**0.0272**	**0.0000**	**134.6118**	**134.6118**	**5.4100e-003**	**0.0000**	**134.7471**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.1928	1.7611	2.1179	3.5300e-003		0.0803	0.0803		0.0756	0.0756	0.0000	303.7223	303.7223	0.0718	0.0000	305.5179
Total	**0.1928**	**1.7611**	**2.1179**	**3.5300e-003**		**0.0803**	**0.0803**		**0.0756**	**0.0756**	**0.0000**	**303.7223**	**303.7223**	**0.0718**	**0.0000**	**305.5179**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0800e-003	0.2034	0.0635	7.0000e-004	0.0182	2.3000e-004	0.0184	5.2400e-003	2.2000e-004	5.4600e-003	0.0000	67.9401	67.9401	3.6600e-003	0.0000	68.0317
Worker	0.0264	0.0183	0.2189	7.2000e-004	0.0804	6.1000e-004	0.0810	0.0214	5.7000e-004	0.0219	0.0000	65.3445	65.3445	1.5900e-003	0.0000	65.3843
Total	**0.0324**	**0.2217**	**0.2823**	**1.4200e-003**	**0.0986**	**8.4000e-004**	**0.0994**	**0.0266**	**7.9000e-004**	**0.0274**	**0.0000**	**133.2846**	**133.2846**	**5.2500e-003**	**0.0000**	**133.4160**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0883	1.8636	2.3415	3.5300e-003		0.1184	0.1184		0.1184	0.1184	0.0000	303.7220	303.7220	0.0718	0.0000	305.5175
Total	**0.0883**	**1.8636**	**2.3415**	**3.5300e-003**		**0.1184**	**0.1184**		**0.1184**	**0.1184**	**0.0000**	**303.7220**	**303.7220**	**0.0718**	**0.0000**	**305.5175**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	6.0800e-003	0.2034	0.0635	7.0000e-004	0.0182	2.3000e-004	0.0184	5.2400e-003	2.2000e-004	5.4600e-003	0.0000	67.9401	67.9401	3.6600e-003	0.0000	68.0317
Worker	0.0264	0.0183	0.2189	7.2000e-004	0.0804	6.1000e-004	0.0810	0.0214	5.7000e-004	0.0219	0.0000	65.3445	65.3445	1.5900e-003	0.0000	65.3843
Total	**0.0324**	**0.2217**	**0.2823**	**1.4200e-003**	**0.0986**	**8.4000e-004**	**0.0994**	**0.0266**	**7.9000e-004**	**0.0274**	**0.0000**	**133.2846**	**133.2846**	**5.2500e-003**	**0.0000**	**133.4160**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0595	0.5424	0.6997	1.1700e-003		0.0230	0.0230		0.0216	0.0216	0.0000	100.8850	100.8850	0.0237	0.0000	101.4778
Total	**0.0595**	**0.5424**	**0.6997**	**1.1700e-003**		**0.0230**	**0.0230**		**0.0216**	**0.0216**	**0.0000**	**100.8850**	**100.8850**	**0.0237**	**0.0000**	**101.4778**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9700e-003	0.0670	0.0205	2.3000e-004	6.0300e-003	8.0000e-005	6.1100e-003	1.7400e-003	7.0000e-005	1.8100e-003	0.0000	22.4373	22.4373	1.2000e-003	0.0000	22.4673
Worker	8.3200e-003	5.5600e-003	0.0675	2.3000e-004	0.0267	2.0000e-004	0.0269	7.0900e-003	1.8000e-004	7.2700e-003	0.0000	20.8582	20.8582	4.8000e-004	0.0000	20.8702
Total	**0.0103**	**0.0725**	**0.0880**	**4.6000e-004**	**0.0327**	**2.8000e-004**	**0.0330**	**8.8300e-003**	**2.5000e-004**	**9.0800e-003**	**0.0000**	**43.2955**	**43.2955**	**1.6800e-003**	**0.0000**	**43.3375**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0293	0.6188	0.7775	1.1700e-003		0.0393	0.0393		0.0393	0.0393	0.0000	100.8848	100.8848	0.0237	0.0000	101.4777
Total	**0.0293**	**0.6188**	**0.7775**	**1.1700e-003**		**0.0393**	**0.0393**		**0.0393**	**0.0393**	**0.0000**	**100.8848**	**100.8848**	**0.0237**	**0.0000**	**101.4777**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	1.9700e-003	0.0670	0.0205	2.3000e-004	6.0300e-003	8.0000e-005	6.1100e-003	1.7400e-003	7.0000e-005	1.8100e-003	0.0000	22.4373	22.4373	1.2000e-003	0.0000	22.4673
Worker	8.3200e-003	5.5600e-003	0.0675	2.3000e-004	0.0267	2.0000e-004	0.0269	7.0900e-003	1.8000e-004	7.2700e-003	0.0000	20.8582	20.8582	4.8000e-004	0.0000	20.8702
Total	**0.0103**	**0.0725**	**0.0880**	**4.6000e-004**	**0.0327**	**2.8000e-004**	**0.0330**	**8.8300e-003**	**2.5000e-004**	**9.0800e-003**	**0.0000**	**43.2955**	**43.2955**	**1.6800e-003**	**0.0000**	**43.3375**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0256	0.2403	0.4082	6.4000e-004		0.0117	0.0117		0.0108	0.0108	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0256**	**0.2403**	**0.4082**	**6.4000e-004**		**0.0117**	**0.0117**		**0.0108**	**0.0108**	**0.0000**	**56.0539**	**56.0539**	**0.0181**	**0.0000**	**56.5071**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.6000e-004	0.0116	4.0000e-005	4.6000e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.5962	3.5962	8.0000e-005	0.0000	3.5983
Total	**1.4400e-003**	**9.6000e-004**	**0.0116**	**4.0000e-005**	**4.6000e-003**	**3.0000e-005**	**4.6400e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.5962**	**3.5962**	**8.0000e-005**	**0.0000**	**3.5983**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Off-Road	0.0157	0.3163	0.4843	6.4000e-004		0.0171	0.0171		0.0171	0.0171	0.0000	56.0539	56.0539	0.0181	0.0000	56.5071
Paving	0.0000					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Total	**0.0157**	**0.3163**	**0.4843**	**6.4000e-004**		**0.0171**	**0.0171**		**0.0171**	**0.0171**	**0.0000**	**56.0539**	**56.0539**	**0.0181**	**0.0000**	**56.5071**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.4400e-003	9.6000e-004	0.0116	4.0000e-005	4.6000e-003	3.0000e-005	4.6400e-003	1.2200e-003	3.0000e-005	1.2500e-003	0.0000	3.5962	3.5962	8.0000e-005	0.0000	3.5983
Total	**1.4400e-003**	**9.6000e-004**	**0.0116**	**4.0000e-005**	**4.6000e-003**	**3.0000e-005**	**4.6400e-003**	**1.2200e-003**	**3.0000e-005**	**1.2500e-003**	**0.0000**	**3.5962**	**3.5962**	**8.0000e-005**	**0.0000**	**3.5983**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	4.7800e-003	0.0321	0.0507	8.0000e-005		1.4400e-003	1.4400e-003		1.4400e-003	1.4400e-003	0.0000	7.1491	7.1491	3.9000e-004	0.0000	7.1589
Total	**0.6189**	**0.0321**	**0.0507**	**8.0000e-005**		**1.4400e-003**	**1.4400e-003**		**1.4400e-003**	**1.4400e-003**	**0.0000**	**7.1491**	**7.1491**	**3.9000e-004**	**0.0000**	**7.1589**

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.0000e-004	8.5300e-003	3.0000e-005	3.3800e-003	3.0000e-005	3.4000e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.6372	2.6372	6.0000e-005	0.0000	2.6388
Total	**1.0500e-003**	**7.0000e-004**	**8.5300e-003**	**3.0000e-005**	**3.3800e-003**	**3.0000e-005**	**3.4000e-003**	**9.0000e-004**	**2.0000e-005**	**9.2000e-004**	**0.0000**	**2.6372**	**2.6372**	**6.0000e-005**	**0.0000**	**2.6388**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Archit. Coating	0.6141					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Off-Road	1.6600e-003	0.0380	0.0513	8.0000e-005		2.6600e-003	2.6600e-003		2.6600e-003	2.6600e-003	0.0000	7.1491	7.1491	3.9000e-004	0.0000	7.1589
Total	**0.6158**	**0.0380**	**0.0513**	**8.0000e-005**		**2.6600e-003**	**2.6600e-003**		**2.6600e-003**	**2.6600e-003**	**0.0000**	**7.1491**	**7.1491**	**3.9000e-004**	**0.0000**	**7.1589**

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Worker	1.0500e-003	7.0000e-004	8.5300e-003	3.0000e-005	3.3800e-003	3.0000e-005	3.4000e-003	9.0000e-004	2.0000e-005	9.2000e-004	0.0000	2.6372	2.6372	6.0000e-005	0.0000	2.6388
Total	**1.0500e-003**	**7.0000e-004**	**8.5300e-003**	**3.0000e-005**	**3.3800e-003**	**3.0000e-005**	**3.4000e-003**	**9.0000e-004**	**2.0000e-005**	**9.2000e-004**	**0.0000**	**2.6372**	**2.6372**	**6.0000e-005**	**0.0000**	**2.6388**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.3652	1.7899	5.3798	0.0231	2.1657	0.0172	2.1829	0.5803	0.0160	0.5963	0.0000	2,141.6975	2,141.6975	0.0952	0.0000	2,144.0768
Unmitigated	0.3652	1.7899	5.3798	0.0231	2.1657	0.0172	2.1829	0.5803	0.0160	0.5963	0.0000	2,141.6975	2,141.6975	0.0952	0.0000	2,144.0768

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,220.55	413.80	169.50	4,079,244	4,079,244
High School	487.24	165.19	67.66	1,628,424	1,628,424
Total	1,707.80	578.98	237.16	5,707,668	5,707,668

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Electricity Mitigated						0.0000	0.0000		0.0000	0.0000	0.0000	411.1712	411.1712	9.7100e-003	2.0100e-003	412.0127
Electricity Unmitigated						0.0000	0.0000		0.0000	0.0000	0.0000	436.8510	436.8510	0.0103	2.1300e-003	437.7450
NaturalGas Mitigated	6.1000e-003	0.0554	0.0466	3.3000e-004		4.2100e-003	4.2100e-003		4.2100e-003	4.2100e-003	0.0000	60.3514	60.3514	1.1600e-003	1.1100e-003	60.7101
NaturalGas Unmitigated	7.4300e-003	0.0675	0.0567	4.1000e-004		5.1300e-003	5.1300e-003		5.1300e-003	5.1300e-003	0.0000	73.5303	73.5303	1.4100e-003	1.3500e-003	73.9673

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	393078	2.1200e-003	0.0193	0.0162	1.2000e-004		1.4600e-003	1.4600e-003		1.4600e-003	1.4600e-003	0.0000	20.9762	20.9762	4.0000e-004	3.8000e-004	21.1008
High School	984828	5.3100e-003	0.0483	0.0406	2.9000e-004		3.6700e-003	3.6700e-003		3.6700e-003	3.6700e-003	0.0000	52.5542	52.5542	1.0100e-003	9.6000e-004	52.8665
Total		**7.4300e-003**	**0.0676**	**0.0567**	**4.1000e-004**		**5.1300e-003**	**5.1300e-003**		**5.1300e-003**	**5.1300e-003**	**0.0000**	**73.5303**	**73.5303**	**1.4100e-003**	**1.3400e-003**	**73.9673**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	tons/yr										MT/yr					
High School	322627	1.7400e-003	0.0158	0.0133	9.0000e-005		1.2000e-003	1.2000e-003		1.2000e-003	1.2000e-003	0.0000	17.2166	17.2166	3.3000e-004	3.2000e-004	17.3189
High School	808317	4.3600e-003	0.0396	0.0333	2.4000e-004		3.0100e-003	3.0100e-003		3.0100e-003	3.0100e-003	0.0000	43.1349	43.1349	8.3000e-004	7.9000e-004	43.3912
Total		**6.1000e-003**	**0.0554**	**0.0466**	**3.3000e-004**		**4.2100e-003**	**4.2100e-003**		**4.2100e-003**	**4.2100e-003**	**0.0000**	**60.3514**	**60.3514**	**1.1600e-003**	**1.1100e-003**	**60.7101**

5.3 Energy by Land Use - Electricity

Unmitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	223752	124.6214	2.9400e-003	6.1000e-004	124.8765
High School	560594	312.2295	7.3700e-003	1.5300e-003	312.8685
Total		**436.8510**	**0.0103**	**2.1400e-003**	**437.7450**

Mitigated

	Electricity Use	Total CO2	CH4	N2O	CO2e
Land Use	kWh/yr	MT/yr			
High School	210599	117.2957	2.7700e-003	5.7000e-004	117.5358
High School	527641	293.8755	6.9400e-003	1.4400e-003	294.4769
Total		**411.1712**	**9.7100e-003**	**2.0100e-003**	**412.0127**

6.0 Area Detail

6.1 Mitigation Measures Area

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	tons/yr										MT/yr					
Mitigated	0.5096	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1500e-003	3.1500e-003	1.0000e-005	0.0000	3.3400e-003
Unmitigated	0.5403	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2900e-003	3.2900e-003	1.0000e-005	0.0000	3.5000e-003

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0614					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.6000e-004	2.0000e-005	1.6900e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.2900e-003	3.2900e-003	1.0000e-005	0.0000	3.5000e-003
Total	**0.5403**	**2.0000e-005**	**1.6900e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.2900e-003**	**3.2900e-003**	**1.0000e-005**	**0.0000**	**3.5000e-003**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	tons/yr										MT/yr					
Architectural Coating	0.0307					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Consumer Products	0.4788					0.0000	0.0000		0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Landscaping	1.4000e-004	1.0000e-005	1.6300e-003	0.0000		1.0000e-005	1.0000e-005		1.0000e-005	1.0000e-005	0.0000	3.1500e-003	3.1500e-003	1.0000e-005	0.0000	3.3400e-003
Total	**0.5096**	**1.0000e-005**	**1.6300e-003**	**0.0000**		**1.0000e-005**	**1.0000e-005**		**1.0000e-005**	**1.0000e-005**	**0.0000**	**3.1500e-003**	**3.1500e-003**	**1.0000e-005**	**0.0000**	**3.3400e-003**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

	Total CO2	CH4	N2O	CO2e
Category	MT/yr			
Mitigated	92.3698	0.1168	3.1500e-003	96.2305
Unmitigated	103.2998	0.1458	3.8800e-003	108.1008

7.2 Water by Land Use

Unmitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	4.39928 / 11.3124	103.2998	0.1458	3.8800e-003	108.1008
Total		**103.2998**	**0.1458**	**3.8800e-003**	**108.1008**

Mitigated

	Indoor/Outdoor Use	Total CO2	CH4	N2O	CO2e
Land Use	Mgal	MT/yr			
High School	3.51943 / 10.6224	92.3698	0.1168	3.1500e-003	96.2305
Total		**92.3698**	**0.1168**	**3.1500e-003**	**96.2305**

8.0 Waste Detail

8.1 Mitigation Measures Waste

Category/Year

	Total CO2	CH4	N2O	CO2e
	MT/yr			
Mitigated	34.9632	2.0663	0.0000	86.6198
Unmitigated	34.9632	2.0663	0.0000	86.6198

8.2 Waste by Land Use

Unmitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	172.24	34.9632	2.0663	0.0000	86.6198
Total		**34.9632**	**2.0663**	**0.0000**	**86.6198**

8.2 Waste by Land Use

Mitigated

	Waste Disposed	Total CO2	CH4	N2O	CO2e
Land Use	tons	MT/yr			
High School	172.24	34.9632	2.0663	0.0000	86.6198
Total		**34.9632**	**2.0663**	**0.0000**	**86.6198**

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Reseda High School Modernization

Los Angeles-South Coast County, Summer

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	94.69	1000sqft	20.87	94,695.00	1078
High School	37.80	1000sqft	8.33	37,796.00	430

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Reseda High School Modernization - Los Angeles-South Coast County, Summer

Project Characteristics -

Land Use - Data from Reseda High School Modernization IS/MND Project Description. 108 staff/1400 students.

Construction Phase - Default schedule increased proportionally to account for 2022 start and 2026 operation.

Grading - Assumes up to 50% of the site would be graded and soil would be balanced on site.

Demolition -

Trips and VMT -

Architectural Coating -

Fleet Mix -

Area Coating -

Construction Off-road Equipment Mitigation - SC-AQ-4 requires Tier 3 minimum. Fugitive dust reflects Rule 403 & SC-AQ-4.

Area Mitigation - SC-AQ-4 requires ultra-low-VOC or zero-VOC paint. Assumes 50 g/L. Gas leaf blower illegal within 500 feet of residence in City of Los Angeles.

Energy Mitigation - SC-GHG-5 20% improvement over Title 24.

Water Mitigation - SC-GHG-4

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	56.00
tblConstructionPhase	NumDays	440.00	704.00
tblConstructionPhase	NumDays	30.00	48.00
tblConstructionPhase	NumDays	45.00	72.00
tblConstructionPhase	NumDays	35.00	56.00

tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	PhaseEndDate	4/26/2024	11/3/2025
tblConstructionPhase	PhaseEndDate	1/19/2024	5/1/2025
tblConstructionPhase	PhaseEndDate	2/11/2022	3/9/2022
tblConstructionPhase	PhaseEndDate	5/13/2022	8/2/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	8/15/2025
tblConstructionPhase	PhaseEndDate	3/11/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	8/16/2025
tblConstructionPhase	PhaseStartDate	5/14/2022	8/21/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	4/23/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	5/30/2025
tblConstructionPhase	PhaseStartDate	2/12/2022	3/10/2022
tblGrading	AcresOfGrading	180.00	15.00
tblLandUse	LandUseSquareFeet	37,800.00	37,796.00
tblLandUse	LandUseSquareFeet	94,690.00	94,695.00
tblLandUse	LotAcreage	0.87	8.33
tblLandUse	LotAcreage	2.17	20.87
tblLandUse	Population	0.00	430.00
tblLandUse	Population	0.00	1,078.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7051	38.8967	29.7847	0.0643	18.2675	1.6366	19.8816	9.9840	1.5057	11.4691	0.0000	6,231.1530	6,231.1530	1.9503	0.0000	6,279.9099
2023	1.8305	16.0610	18.6375	0.0383	0.7668	0.7063	1.4731	0.2066	0.6645	0.8711	0.0000	3,728.5562	3,728.5562	0.6537	0.0000	3,744.8972
2024	1.7168	15.1021	18.4160	0.0381	0.7668	0.6198	1.3866	0.2066	0.5829	0.7895	0.0000	3,708.3189	3,708.3189	0.6485	0.0000	3,724.5301
2025	22.1402	14.1045	18.1947	0.0379	0.7668	0.5339	1.3007	0.2066	0.5021	0.7087	0.0000	3,683.6519	3,683.6519	0.7171	0.0000	3,699.7367
Maximum	**22.1402**	**38.8967**	**29.7847**	**0.0643**	**18.2675**	**1.6366**	**19.8816**	**9.9840**	**1.5057**	**11.4691**	**0.0000**	**6,231.1530**	**6,231.1530**	**1.9503**	**0.0000**	**6,279.9099**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.6034	30.0314	37.4658	0.0643	8.3310	1.3012	9.2788	4.5222	1.3010	5.4698	0.0000	6,231.1530	6,231.1530	1.9503	0.0000	6,279.9099
2023	0.9316	15.9022	20.2673	0.0383	0.7668	0.9101	1.6769	0.2066	0.9096	1.1162	0.0000	3,728.5562	3,728.5562	0.6537	0.0000	3,744.8972
2024	0.9191	15.8844	20.1229	0.0381	0.7668	0.9100	1.6768	0.2066	0.9096	1.1161	0.0000	3,708.3189	3,708.3189	0.6485	0.0000	3,724.5301
2025	22.0288	15.8609	19.9838	0.0379	0.7668	0.9099	1.6767	0.2066	0.9094	1.1160	0.0000	3,683.6519	3,683.6519	0.7171	0.0000	3,699.7367
Maximum	**22.0288**	**30.0314**	**37.4658**	**0.0643**	**8.3310**	**1.3012**	**9.2788**	**4.5222**	**1.3010**	**5.4698**	**0.0000**	**6,231.1530**	**6,231.1530**	**1.9503**	**0.0000**	**6,279.9099**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.30**	**7.71**	**-15.06**	**0.00**	**48.31**	**-15.29**	**40.48**	**51.51**	**-23.79**	**36.28**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9611	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0407	0.3701	0.3109	2.2200e-003		0.0281	0.0281		0.0281	0.0281		444.1278	444.1278	8.5100e-003	8.1400e-003	446.7670
Mobile	2.6967	12.0454	39.5418	0.1681	15.5050	0.1210	15.6260	4.1482	0.1124	4.2606		17,153.1020	17,153.1020	0.7423		17,171.6601
Total	**5.6985**	**12.4157**	**39.8661**	**0.1703**	**15.5050**	**0.1492**	**15.6542**	**4.1482**	**0.1405**	**4.2887**		**17,597.2587**	**17,597.2587**	**0.7509**	**8.1400e-003**	**17,618.4579**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7927	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Energy	0.0334	0.3038	0.2552	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.5264	364.5264	6.9900e-003	6.6800e-003	366.6926
Mobile	2.6967	12.0454	39.5418	0.1681	15.5050	0.1210	15.6260	4.1482	0.1124	4.2606		17,153.1020	17,153.1020	0.7423		17,171.6601
Total	**5.5228**	**12.3493**	**39.8100**	**0.1699**	**15.5050**	**0.1442**	**15.6491**	**4.1482**	**0.1355**	**4.2837**		**17,517.6562**	**17,517.6562**	**0.7494**	**6.6800e-003**	**17,538.3821**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.08**	**0.53**	**0.14**	**0.23**	**0.00**	**3.38**	**0.03**	**0.00**	**3.59**	**0.12**	**0.00**	**0.45**	**0.45**	**0.20**	**17.94**	**0.45**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	3/9/2022	5	48	
2	Site Preparation	Site Preparation	3/10/2022	4/22/2022	5	32	
3	Grading	Grading	4/23/2022	8/2/2022	5	72	
4	Building Construction	Building Construction	8/21/2022	5/1/2025	5	704	
5	Paving	Paving	5/30/2025	8/15/2025	5	56	
6	Architectural Coating	Architectural Coating	8/16/2025	11/3/2025	5	56	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 198,737; Non-Residential Outdoor: 66,246; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Reseda High School Modernization - Los Angeles-South Coast County, Summer

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	493.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2244	0.0000	2.2244	0.3368	0.0000	0.3368			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.2244**	**1.2427**	**3.4671**	**0.3368**	**1.1553**	**1.4921**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0815	2.5594	0.6394	7.9100e-003	0.1796	7.3500e-003	0.1870	0.0492	7.0300e-003	0.0563		859.0884	859.0884	0.0581		860.5413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.1417**	**2.5993**	**1.1968**	**9.5600e-003**	**0.3473**	**8.6600e-003**	**0.3559**	**0.0937**	**8.2400e-003**	**0.1019**		**1,023.8953**	**1,023.8953**	**0.0627**		**1,025.4618**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0010	0.0000	1.0010	0.1516	0.0000	0.1516			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**1.0010**	**0.8627**	**1.8637**	**0.1516**	**0.8627**	**1.0143**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0815	2.5594	0.6394	7.9100e-003	0.1796	7.3500e-003	0.1870	0.0492	7.0300e-003	0.0563		859.0884	859.0884	0.0581		860.5413
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0602	0.0399	0.5574	1.6500e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		164.8069	164.8069	4.5500e-003		164.9206
Total	**0.1417**	**2.5993**	**1.1968**	**9.5600e-003**	**0.3473**	**8.6600e-003**	**0.3559**	**0.0937**	**8.2400e-003**	**0.1019**		**1,023.8953**	**1,023.8953**	**0.0627**		**1,025.4618**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	**0.0723**	**0.0479**	**0.6689**	**1.9800e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**197.7682**	**197.7682**	**5.4600e-003**		**197.9047**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**8.1298**	**0.9462**	**9.0760**	**4.4688**	**0.9462**	**5.4150**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0723	0.0479	0.6689	1.9800e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		197.7682	197.7682	5.4600e-003		197.9047
Total	**0.0723**	**0.0479**	**0.6689**	**1.9800e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**197.7682**	**197.7682**	**5.4600e-003**		**197.9047**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2430	0.0000	6.2430	3.3341	0.0000	3.3341			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**6.2430**	**1.6349**	**7.8779**	**3.3341**	**1.5041**	**4.8382**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8094	0.0000	2.8094	1.5003	0.0000	1.5003			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0621		1.2994	1.2994		1.2994	1.2994	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**1.5231**	**29.9782**	**36.7226**	**0.0621**	**2.8094**	**1.2994**	**4.1088**	**1.5003**	**1.2994**	**2.7998**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0803	0.0532	0.7432	2.2100e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		219.7425	219.7425	6.0600e-003		219.8941
Total	**0.0803**	**0.0532**	**0.7432**	**2.2100e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**219.7425**	**219.7425**	**6.0600e-003**		**219.8941**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442		599.4690	599.4690	0.0344		600.3290
Worker	0.2249	0.1490	2.0810	6.1700e-003	0.6260	4.9000e-003	0.6309	0.1660	4.5100e-003	0.1705		615.2789	615.2789	0.0170		615.7035
Total	**0.2876**	**2.1803**	**2.6093**	**0.0118**	**0.7668**	**8.7200e-003**	**0.7755**	**0.2066**	**8.1600e-003**	**0.2147**		**1,214.7479**	**1,214.7479**	**0.0514**		**1,216.0324**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0628	2.0313	0.5283	5.6000e-003	0.1409	3.8200e-003	0.1447	0.0406	3.6500e-003	0.0442		599.4690	599.4690	0.0344		600.3290
Worker	0.2249	0.1490	2.0810	6.1700e-003	0.6260	4.9000e-003	0.6309	0.1660	4.5100e-003	0.1705		615.2789	615.2789	0.0170		615.7035
Total	**0.2876**	**2.1803**	**2.6093**	**0.0118**	**0.7668**	**8.7200e-003**	**0.7755**	**0.2066**	**8.1600e-003**	**0.2147**		**1,214.7479**	**1,214.7479**	**0.0514**		**1,216.0324**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0466	1.5413	0.4771	5.4200e-003	0.1409	1.7800e-003	0.1426	0.0406	1.7000e-003	0.0423		580.5963	580.5963	0.0305		581.3585
Worker	0.2112	0.1348	1.9164	5.9500e-003	0.6260	4.7600e-003	0.6307	0.1660	4.3800e-003	0.1704		592.7499	592.7499	0.0153		593.1327
Total	**0.2577**	**1.6761**	**2.3935**	**0.0114**	**0.7668**	**6.5400e-003**	**0.7733**	**0.2066**	**6.0800e-003**	**0.2127**		**1,173.3463**	**1,173.3463**	**0.0458**		**1,174.4912**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0466	1.5413	0.4771	5.4200e-003	0.1409	1.7800e-003	0.1426	0.0406	1.7000e-003	0.0423		580.5963	580.5963	0.0305		581.3585
Worker	0.2112	0.1348	1.9164	5.9500e-003	0.6260	4.7600e-003	0.6307	0.1660	4.3800e-003	0.1704		592.7499	592.7499	0.0153		593.1327
Total	**0.2577**	**1.6761**	**2.3935**	**0.0114**	**0.7668**	**6.5400e-003**	**0.7733**	**0.2066**	**6.0800e-003**	**0.2127**		**1,173.3463**	**1,173.3463**	**0.0458**		**1,174.4912**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0454	1.5354	0.4626	5.3900e-003	0.1409	1.7600e-003	0.1426	0.0406	1.6800e-003	0.0422		578.2402	578.2402	0.0301		578.9914
Worker	0.1998	0.1230	1.7865	5.7600e-003	0.6260	4.6900e-003	0.6306	0.1660	4.3200e-003	0.1703		574.3798	574.3798	0.0141		574.7310
Total	**0.2452**	**1.6583**	**2.2491**	**0.0112**	**0.7668**	**6.4500e-003**	**0.7733**	**0.2066**	**6.0000e-003**	**0.2126**		**1,152.6200**	**1,152.6200**	**0.0441**		**1,153.7224**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0454	1.5354	0.4626	5.3900e-003	0.1409	1.7600e-003	0.1426	0.0406	1.6800e-003	0.0422		578.2402	578.2402	0.0301		578.9914
Worker	0.1998	0.1230	1.7865	5.7600e-003	0.6260	4.6900e-003	0.6306	0.1660	4.3200e-003	0.1703		574.3798	574.3798	0.0141		574.7310
Total	**0.2452**	**1.6583**	**2.2491**	**0.0112**	**0.7668**	**6.4500e-003**	**0.7733**	**0.2066**	**6.0000e-003**	**0.2126**		**1,152.6200**	**1,152.6200**	**0.0441**		**1,153.7224**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0443	1.5223	0.4507	5.3600e-003	0.1409	1.7300e-003	0.1426	0.0406	1.6500e-003	0.0422		575.0540	575.0540	0.0296		575.7947
Worker	0.1897	0.1125	1.6593	5.5400e-003	0.6260	4.5900e-003	0.6305	0.1660	4.2300e-003	0.1702		552.1236	552.1236	0.0128		552.4439
Total	**0.2340**	**1.6349**	**2.1100**	**0.0109**	**0.7668**	**6.3200e-003**	**0.7731**	**0.2066**	**5.8800e-003**	**0.2124**		**1,127.1776**	**1,127.1776**	**0.0424**		**1,128.2387**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0443	1.5223	0.4507	5.3600e-003	0.1409	1.7300e-003	0.1426	0.0406	1.6500e-003	0.0422		575.0540	575.0540	0.0296		575.7947
Worker	0.1897	0.1125	1.6593	5.5400e-003	0.6260	4.5900e-003	0.6305	0.1660	4.2300e-003	0.1702		552.1236	552.1236	0.0128		552.4439
Total	**0.2340**	**1.6349**	**2.1100**	**0.0109**	**0.7668**	**6.3200e-003**	**0.7731**	**0.2066**	**5.8800e-003**	**0.2124**		**1,127.1776**	**1,127.1776**	**0.0424**		**1,128.2387**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0508	0.0301	0.4445	1.4800e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		147.8903	147.8903	3.4300e-003		147.9761
Total	**0.0508**	**0.0301**	**0.4445**	**1.4800e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**147.8903**	**147.8903**	**3.4300e-003**		**147.9761**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5609**	**11.2952**	**17.2957**	**0.0228**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0508	0.0301	0.4445	1.4800e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		147.8903	147.8903	3.4300e-003		147.9761
Total	**0.0508**	**0.0301**	**0.4445**	**1.4800e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**147.8903**	**147.8903**	**3.4300e-003**		**147.9761**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.9321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**22.1029**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0373	0.0221	0.3259	1.0900e-003	0.1230	9.0000e-004	0.1239	0.0326	8.3000e-004	0.0334		108.4529	108.4529	2.5200e-003		108.5158
Total	**0.0373**	**0.0221**	**0.3259**	**1.0900e-003**	**0.1230**	**9.0000e-004**	**0.1239**	**0.0326**	**8.3000e-004**	**0.0334**		**108.4529**	**108.4529**	**2.5200e-003**		**108.5158**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.9321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**21.9915**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0373	0.0221	0.3259	1.0900e-003	0.1230	9.0000e-004	0.1239	0.0326	8.3000e-004	0.0334		108.4529	108.4529	2.5200e-003		108.5158
Total	**0.0373**	**0.0221**	**0.3259**	**1.0900e-003**	**0.1230**	**9.0000e-004**	**0.1239**	**0.0326**	**8.3000e-004**	**0.0334**		**108.4529**	**108.4529**	**2.5200e-003**		**108.5158**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6967	12.0454	39.5418	0.1681	15.5050	0.1210	15.6260	4.1482	0.1124	4.2606		17,153.1020	17,153.1020	0.7423		17,171.6601
Unmitigated	2.6967	12.0454	39.5418	0.1681	15.5050	0.1210	15.6260	4.1482	0.1124	4.2606		17,153.1020	17,153.1020	0.7423		17,171.6601

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,220.55	413.80	169.50	4,079,244	4,079,244
High School	487.24	165.19	67.66	1,628,424	1,628,424
Total	1,707.80	578.98	237.16	5,707,668	5,707,668

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0334	0.3038	0.2552	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.5264	364.5264	6.9900e-003	6.6800e-003	366.6926
NaturalGas Unmitigated	0.0407	0.3701	0.3109	2.2200e-003		0.0281	0.0281		0.0281	0.0281		444.1278	444.1278	8.5100e-003	8.1400e-003	446.7670

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	1076.93	0.0116	0.1056	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6973	126.6973	2.4300e-003	2.3200e-003	127.4502
High School	2698.16	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.4305	317.4305	6.0800e-003	5.8200e-003	319.3168
Total		**0.0407**	**0.3701**	**0.3109**	**2.2200e-003**		**0.0281**	**0.0281**		**0.0281**	**0.0281**		**444.1278**	**444.1278**	**8.5100e-003**	**8.1400e-003**	**446.7670**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	0.883909	9.5300e-003	0.0867	0.0728	5.2000e-004		6.5900e-003	6.5900e-003		6.5900e-003	6.5900e-003		103.9893	103.9893	1.9900e-003	1.9100e-003	104.6072
High School	2.21457	0.0239	0.2171	0.1824	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.5372	260.5372	4.9900e-003	4.7800e-003	262.0854
Total		**0.0334**	**0.3038**	**0.2552**	**1.8200e-003**		**0.0231**	**0.0231**		**0.0231**	**0.0231**		**364.5264**	**364.5264**	**6.9800e-003**	**6.6900e-003**	**366.6926**

6.0 Area Detail

6.1 Mitigation Measures Area

Reseda High School Modernization - Los Angeles-South Coast County, Summer

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7927	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Unmitigated	2.9611	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3365					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.9611**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1100e-003	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Total	**2.7927**	**1.2000e-004**	**0.0131**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0278**	**0.0278**	**7.0000e-005**		**0.0295**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

Reseda High School Modernization

Los Angeles-South Coast County, Winter

1.0 Project Characteristics

1.1 Land Usage

Land Uses	Size	Metric	Lot Acreage	Floor Surface Area	Population
High School	94.69	1000sqft	20.87	94,695.00	1078
High School	37.80	1000sqft	8.33	37,796.00	430

1.2 Other Project Characteristics

Urbanization	Urban	**Wind Speed (m/s)**	2.2	**Precipitation Freq (Days)**	33
Climate Zone	12			**Operational Year**	2026
Utility Company	Los Angeles Department of Water & Power				
CO2 Intensity (lb/MWhr)	1227.89	**CH4 Intensity (lb/MWhr)**	0.029	**N2O Intensity (lb/MWhr)**	0.006

1.3 User Entered Comments & Non-Default Data

Reseda High School Modernization - Los Angeles-South Coast County, Winter

Project Characteristics -

Land Use - Data from Reseda High School Modernization IS/MND Project Description. 108 staff/1400 students.

Construction Phase - Default schedule increased proportionally to account for 2022 start and 2026 operation.

Grading - Assumes up to 50% of the site would be graded and soil would be balanced on site.

Demolition -

Trips and VMT -

Architectural Coating -

Fleet Mix -

Area Coating -

Construction Off-road Equipment Mitigation - SC-AQ-4 requires Tier 3 minimum. Fugitive dust reflects Rule 403 & SC-AQ-4.

Area Mitigation - SC-AQ-4 requires ultra-low-VOC or zero-VOC paint. Assumes 50 g/L. Gas leaf blower illegal within 500 feet of residence in City of Los Angeles.

Energy Mitigation - SC-GHG-5 20% improvement over Title 24.

Water Mitigation - SC-GHG-4

Table Name	Column Name	Default Value	New Value
tblAreaMitigation	UseLowVOCPaintNonresidentialExteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintNonresidentialInteriorValue	100	50
tblAreaMitigation	UseLowVOCPaintParkingCheck	False	True
tblAreaMitigation	UseLowVOCPaintParkingValue	100	50
tblConstDustMitigation	WaterUnpavedRoadVehicleSpeed	0	15
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	5.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	3.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00

tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	6.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	2.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	9.00
tblConstEquipMitigation	NumberOfEquipmentMitigated	0.00	1.00
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstEquipMitigation	Tier	No Change	Tier 3
tblConstructionPhase	NumDays	35.00	56.00
tblConstructionPhase	NumDays	440.00	704.00
tblConstructionPhase	NumDays	30.00	48.00
tblConstructionPhase	NumDays	45.00	72.00
tblConstructionPhase	NumDays	35.00	56.00

tblConstructionPhase	NumDays	20.00	32.00
tblConstructionPhase	PhaseEndDate	4/26/2024	11/3/2025
tblConstructionPhase	PhaseEndDate	1/19/2024	5/1/2025
tblConstructionPhase	PhaseEndDate	2/11/2022	3/9/2022
tblConstructionPhase	PhaseEndDate	5/13/2022	8/2/2022
tblConstructionPhase	PhaseEndDate	3/8/2024	8/15/2025
tblConstructionPhase	PhaseEndDate	3/11/2022	4/22/2022
tblConstructionPhase	PhaseStartDate	3/9/2024	8/16/2025
tblConstructionPhase	PhaseStartDate	5/14/2022	8/21/2022
tblConstructionPhase	PhaseStartDate	3/12/2022	4/23/2022
tblConstructionPhase	PhaseStartDate	1/20/2024	5/30/2025
tblConstructionPhase	PhaseStartDate	2/12/2022	3/10/2022
tblGrading	AcresOfGrading	180.00	15.00
tblLandUse	LandUseSquareFeet	37,800.00	37,796.00
tblLandUse	LandUseSquareFeet	94,690.00	94,695.00
tblLandUse	LotAcreage	0.87	8.33
tblLandUse	LotAcreage	2.17	20.87
tblLandUse	Population	0.00	430.00
tblLandUse	Population	0.00	1,078.00

2.0 Emissions Summary

2.1 Overall Construction (Maximum Daily Emission)

Unmitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	3.7144	38.9024	29.7199	0.0642	18.2675	1.6366	19.8816	9.9840	1.5057	11.4691	0.0000	6,218.3244	6,218.3244	1.9499	0.0000	6,267.0722
2023	1.8580	16.0683	18.5094	0.0378	0.7668	0.7064	1.4732	0.2066	0.6646	0.8712	0.0000	3,678.2043	3,678.2043	0.6545	0.0000	3,694.5659
2024	1.7435	15.1085	18.2960	0.0376	0.7668	0.6198	1.3867	0.2066	0.5830	0.7895	0.0000	3,659.1893	3,659.1893	0.6493	0.0000	3,675.4211
2025	22.1449	14.1099	18.0837	0.0374	0.7668	0.5340	1.3008	0.2066	0.5022	0.7088	0.0000	3,636.0111	3,636.0111	0.7169	0.0000	3,652.1169
Maximum	**22.1449**	**38.9024**	**29.7199**	**0.0642**	**18.2675**	**1.6366**	**19.8816**	**9.9840**	**1.5057**	**11.4691**	**0.0000**	**6,218.3244**	**6,218.3244**	**1.9499**	**0.0000**	**6,267.0722**

2.1 Overall Construction (Maximum Daily Emission)

Mitigated Construction

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Year	lb/day										lb/day					
2022	1.6127	30.0371	37.4009	0.0642	8.3310	1.3012	9.2788	4.5222	1.3010	5.4698	0.0000	6,218.3244	6,218.3244	1.9499	0.0000	6,267.0722
2023	0.9591	15.9095	20.1392	0.0378	0.7668	0.9102	1.6770	0.2066	0.9097	1.1163	0.0000	3,678.2043	3,678.2043	0.6545	0.0000	3,694.5659
2024	0.9459	15.8908	20.0029	0.0376	0.7668	0.9101	1.6769	0.2066	0.9096	1.1162	0.0000	3,659.1893	3,659.1893	0.6493	0.0000	3,675.4211
2025	22.0335	15.8663	19.8728	0.0374	0.7668	0.9100	1.6768	0.2066	0.9095	1.1161	0.0000	3,636.0111	3,636.0111	0.7169	0.0000	3,652.1169
Maximum	**22.0335**	**30.0371**	**37.4009**	**0.0642**	**8.3310**	**1.3012**	**9.2788**	**4.5222**	**1.3010**	**5.4698**	**0.0000**	**6,218.3244**	**6,218.3244**	**1.9499**	**0.0000**	**6,267.0722**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**13.27**	**7.70**	**-15.14**	**0.00**	**48.31**	**-15.29**	**40.48**	**51.51**	**-23.79**	**36.28**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**	**0.00**

2.2 Overall Operational

Unmitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.9611	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Energy	0.0407	0.3701	0.3109	2.2200e-003		0.0281	0.0281		0.0281	0.0281		444.1278	444.1278	8.5100e-003	8.1400e-003	446.7670
Mobile	2.6156	12.3531	37.1399	0.1602	15.5050	0.1214	15.6263	4.1482	0.1127	4.2609		16,358.3898	16,358.3898	0.7386		16,376.8554
Total	**5.6174**	**12.7233**	**37.4643**	**0.1624**	**15.5050**	**0.1495**	**15.6545**	**4.1482**	**0.1409**	**4.2891**		**16,802.5466**	**16,802.5466**	**0.7472**	**8.1400e-003**	**16,823.6533**

Mitigated Operational

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Area	2.7927	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Energy	0.0334	0.3038	0.2552	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.5264	364.5264	6.9900e-003	6.6800e-003	366.6926
Mobile	2.6156	12.3531	37.1399	0.1602	15.5050	0.1214	15.6263	4.1482	0.1127	4.2609		16,358.3898	16,358.3898	0.7386		16,376.8554
Total	**5.4417**	**12.6570**	**37.4081**	**0.1620**	**15.5050**	**0.1445**	**15.6495**	**4.1482**	**0.1358**	**4.2840**		**16,722.9440**	**16,722.9440**	**0.7457**	**6.6800e-003**	**16,743.5775**

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio-CO2	Total CO2	CH4	N20	CO2e
Percent Reduction	**3.13**	**0.52**	**0.15**	**0.25**	**0.00**	**3.37**	**0.03**	**0.00**	**3.58**	**0.12**	**0.00**	**0.47**	**0.47**	**0.20**	**17.94**	**0.48**

3.0 Construction Detail

Construction Phase

Phase Number	Phase Name	Phase Type	Start Date	End Date	Num Days Week	Num Days	Phase Description
1	Demolition	Demolition	1/1/2022	3/9/2022	5	48	
2	Site Preparation	Site Preparation	3/10/2022	4/22/2022	5	32	
3	Grading	Grading	4/23/2022	8/2/2022	5	72	
4	Building Construction	Building Construction	8/21/2022	5/1/2025	5	704	
5	Paving	Paving	5/30/2025	8/15/2025	5	56	
6	Architectural Coating	Architectural Coating	8/16/2025	11/3/2025	5	56	

Acres of Grading (Site Preparation Phase): 0

Acres of Grading (Grading Phase): 15

Acres of Paving: 0

Residential Indoor: 0; Residential Outdoor: 0; Non-Residential Indoor: 198,737; Non-Residential Outdoor: 66,246; Striped Parking Area: 0 (Architectural Coating – sqft)

OffRoad Equipment

Reseda High School Modernization - Los Angeles-South Coast County, Winter

Phase Name	Offroad Equipment Type	Amount	Usage Hours	Horse Power	Load Factor
Architectural Coating	Air Compressors	1	6.00	78	0.48
Demolition	Concrete/Industrial Saws	1	8.00	81	0.73
Building Construction	Cranes	1	7.00	231	0.29
Demolition	Excavators	3	8.00	158	0.38
Grading	Excavators	2	8.00	158	0.38
Building Construction	Forklifts	3	8.00	89	0.20
Building Construction	Generator Sets	1	8.00	84	0.74
Grading	Graders	1	8.00	187	0.41
Paving	Pavers	2	8.00	130	0.42
Paving	Paving Equipment	2	8.00	132	0.36
Paving	Rollers	2	8.00	80	0.38
Demolition	Rubber Tired Dozers	2	8.00	247	0.40
Grading	Rubber Tired Dozers	1	8.00	247	0.40
Site Preparation	Rubber Tired Dozers	3	8.00	247	0.40
Grading	Scrapers	2	8.00	367	0.48
Building Construction	Tractors/Loaders/Backhoes	3	7.00	97	0.37
Grading	Tractors/Loaders/Backhoes	2	8.00	97	0.37
Site Preparation	Tractors/Loaders/Backhoes	4	8.00	97	0.37
Building Construction	Welders	1	8.00	46	0.45

Trips and VMT

Phase Name	Offroad Equipment Count	Worker Trip Number	Vendor Trip Number	Hauling Trip Number	Worker Trip Length	Vendor Trip Length	Hauling Trip Length	Worker Vehicle Class	Vendor Vehicle Class	Hauling Vehicle Class
Architectural Coating	1	11.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Building Construction	9	56.00	22.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Demolition	6	15.00	0.00	493.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Grading	8	20.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Paving	6	15.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT
Site Preparation	7	18.00	0.00	0.00	14.70	6.90	20.00	LD_Mix	HDT_Mix	HHDT

3.1 Mitigation Measures Construction

Use Cleaner Engines for Construction Equipment

Water Exposed Area

Reduce Vehicle Speed on Unpaved Roads

3.2 Demolition - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.2244	0.0000	2.2244	0.3368	0.0000	0.3368			0.0000			0.0000
Off-Road	2.6392	25.7194	20.5941	0.0388		1.2427	1.2427		1.1553	1.1553		3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**2.6392**	**25.7194**	**20.5941**	**0.0388**	**2.2244**	**1.2427**	**3.4671**	**0.3368**	**1.1553**	**1.4921**		**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0835	2.5886	0.6766	7.7700e-003	0.1796	7.4600e-003	0.1871	0.0492	7.1400e-003	0.0564		844.0743	844.0743	0.0601		845.5767
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.1506**	**2.6328**	**1.1854**	**9.3300e-003**	**0.3473**	**8.7700e-003**	**0.3560**	**0.0937**	**8.3500e-003**	**0.1020**		**999.2597**	**999.2597**	**0.0644**		**1,000.8689**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					1.0010	0.0000	1.0010	0.1516	0.0000	0.1516			0.0000			0.0000
Off-Road	0.9246	18.3130	24.6739	0.0388		0.8627	0.8627		0.8627	0.8627	0.0000	3,746.7812	3,746.7812	1.0524		3,773.0920
Total	**0.9246**	**18.3130**	**24.6739**	**0.0388**	**1.0010**	**0.8627**	**1.8637**	**0.1516**	**0.8627**	**1.0143**	**0.0000**	**3,746.7812**	**3,746.7812**	**1.0524**		**3,773.0920**

3.2 Demolition - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0835	2.5886	0.6766	7.7700e-003	0.1796	7.4600e-003	0.1871	0.0492	7.1400e-003	0.0564		844.0743	844.0743	0.0601		845.5767
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0672	0.0442	0.5088	1.5600e-003	0.1677	1.3100e-003	0.1690	0.0445	1.2100e-003	0.0457		155.1854	155.1854	4.2700e-003		155.2922
Total	**0.1506**	**2.6328**	**1.1854**	**9.3300e-003**	**0.3473**	**8.7700e-003**	**0.3560**	**0.0937**	**8.3500e-003**	**0.1020**		**999.2597**	**999.2597**	**0.0644**		**1,000.8689**

3.3 Site Preparation - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					18.0663	0.0000	18.0663	9.9307	0.0000	9.9307			0.0000			0.0000
Off-Road	3.1701	33.0835	19.6978	0.0380		1.6126	1.6126		1.4836	1.4836		3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**3.1701**	**33.0835**	**19.6978**	**0.0380**	**18.0663**	**1.6126**	**19.6788**	**9.9307**	**1.4836**	**11.4143**		**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	**0.0806**	**0.0530**	**0.6105**	**1.8700e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**186.2225**	**186.2225**	**5.1300e-003**		**186.3507**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					8.1298	0.0000	8.1298	4.4688	0.0000	4.4688			0.0000			0.0000
Off-Road	0.9312	19.0656	22.9600	0.0380		0.9462	0.9462		0.9462	0.9462	0.0000	3,686.0619	3,686.0619	1.1922		3,715.8655
Total	**0.9312**	**19.0656**	**22.9600**	**0.0380**	**8.1298**	**0.9462**	**9.0760**	**4.4688**	**0.9462**	**5.4150**	**0.0000**	**3,686.0619**	**3,686.0619**	**1.1922**		**3,715.8655**

3.3 Site Preparation - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0806	0.0530	0.6105	1.8700e-003	0.2012	1.5700e-003	0.2028	0.0534	1.4500e-003	0.0548		186.2225	186.2225	5.1300e-003		186.3507
Total	**0.0806**	**0.0530**	**0.6105**	**1.8700e-003**	**0.2012**	**1.5700e-003**	**0.2028**	**0.0534**	**1.4500e-003**	**0.0548**		**186.2225**	**186.2225**	**5.1300e-003**		**186.3507**

3.4 Grading - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					6.2430	0.0000	6.2430	3.3341	0.0000	3.3341			0.0000			0.0000
Off-Road	3.6248	38.8435	29.0415	0.0621		1.6349	1.6349		1.5041	1.5041		6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**3.6248**	**38.8435**	**29.0415**	**0.0621**	**6.2430**	**1.6349**	**7.8779**	**3.3341**	**1.5041**	**4.8382**		**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Fugitive Dust					2.8094	0.0000	2.8094	1.5003	0.0000	1.5003			0.0000			0.0000
Off-Road	1.5231	29.9782	36.7226	0.0621		1.2994	1.2994		1.2994	1.2994	0.0000	6,011.4105	6,011.4105	1.9442		6,060.0158
Total	**1.5231**	**29.9782**	**36.7226**	**0.0621**	**2.8094**	**1.2994**	**4.1088**	**1.5003**	**1.2994**	**2.7998**	**0.0000**	**6,011.4105**	**6,011.4105**	**1.9442**		**6,060.0158**

3.4 Grading - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0896	0.0589	0.6784	2.0800e-003	0.2236	1.7500e-003	0.2253	0.0593	1.6100e-003	0.0609		206.9139	206.9139	5.7000e-003		207.0563
Total	**0.0896**	**0.0589**	**0.6784**	**2.0800e-003**	**0.2236**	**1.7500e-003**	**0.2253**	**0.0593**	**1.6100e-003**	**0.0609**		**206.9139**	**206.9139**	**5.7000e-003**		**207.0563**

3.5 Building Construction - 2022

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.7062	15.6156	16.3634	0.0269		0.8090	0.8090		0.7612	0.7612		2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**1.7062**	**15.6156**	**16.3634**	**0.0269**		**0.8090**	**0.8090**		**0.7612**	**0.7612**		**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.2508	0.1649	1.8994	5.8100e-003	0.6260	4.9000e-003	0.6309	0.1660	4.5100e-003	0.1705		579.3589	579.3589	0.0160		579.7577
Total	**0.3167**	**2.1907**	**2.4841**	**0.0113**	**0.7668**	**8.8400e-003**	**0.7756**	**0.2066**	**8.2800e-003**	**0.2148**		**1,162.2935**	**1,162.2935**	**0.0526**		**1,163.6082**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,554.3336	2,554.3336	0.6120		2,569.6322
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,554.3336**	**2,554.3336**	**0.6120**		**2,569.6322**

3.5 Building Construction - 2022

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0659	2.0257	0.5847	5.4500e-003	0.1409	3.9400e-003	0.1448	0.0406	3.7700e-003	0.0443		582.9346	582.9346	0.0366		583.8505
Worker	0.2508	0.1649	1.8994	5.8100e-003	0.6260	4.9000e-003	0.6309	0.1660	4.5100e-003	0.1705		579.3589	579.3589	0.0160		579.7577
Total	**0.3167**	**2.1907**	**2.4841**	**0.0113**	**0.7668**	**8.8400e-003**	**0.7756**	**0.2066**	**8.2800e-003**	**0.2148**		**1,162.2935**	**1,162.2935**	**0.0526**		**1,163.6082**

3.5 Building Construction - 2023

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.5728	14.3849	16.2440	0.0269		0.6997	0.6997		0.6584	0.6584		2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**1.5728**	**14.3849**	**16.2440**	**0.0269**		**0.6997**	**0.6997**		**0.6584**	**0.6584**		**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0490	1.5343	0.5196	5.2700e-003	0.1409	1.8700e-003	0.1427	0.0406	1.7900e-003	0.0423		564.8309	564.8309	0.0323		565.6372
Worker	0.2363	0.1492	1.7459	5.6000e-003	0.6260	4.7600e-003	0.6307	0.1660	4.3800e-003	0.1704		558.1635	558.1635	0.0144		558.5226
Total	**0.2852**	**1.6834**	**2.2654**	**0.0109**	**0.7668**	**6.6300e-003**	**0.7734**	**0.2066**	**6.1700e-003**	**0.2127**		**1,122.9944**	**1,122.9944**	**0.0466**		**1,124.1598**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0269		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.2099	2,555.2099	0.6079		2,570.4061
Total	**0.6739**	**14.2261**	**17.8738**	**0.0269**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.2099**	**2,555.2099**	**0.6079**		**2,570.4061**

3.5 Building Construction - 2023

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0490	1.5343	0.5196	5.2700e-003	0.1409	1.8700e-003	0.1427	0.0406	1.7900e-003	0.0423		564.8309	564.8309	0.0323		565.6372
Worker	0.2363	0.1492	1.7459	5.6000e-003	0.6260	4.7600e-003	0.6307	0.1660	4.3800e-003	0.1704		558.1635	558.1635	0.0144		558.5226
Total	**0.2852**	**1.6834**	**2.2654**	**0.0109**	**0.7668**	**6.6300e-003**	**0.7734**	**0.2066**	**6.1700e-003**	**0.2127**		**1,122.9944**	**1,122.9944**	**0.0466**		**1,124.1598**

3.5 Building Construction - 2024

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.4716	13.4438	16.1668	0.0270		0.6133	0.6133		0.5769	0.5769		2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**1.4716**	**13.4438**	**16.1668**	**0.0270**		**0.6133**	**0.6133**		**0.5769**	**0.5769**		**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.5288	0.5038	5.2500e-003	0.1409	1.8400e-003	0.1427	0.0406	1.7600e-003	0.0423		562.6403	562.6403	0.0318		563.4343
Worker	0.2242	0.1360	1.6254	5.4200e-003	0.6260	4.6900e-003	0.6306	0.1660	4.3200e-003	0.1703		540.8501	540.8501	0.0132		541.1792
Total	**0.2720**	**1.6648**	**2.1292**	**0.0107**	**0.7668**	**6.5300e-003**	**0.7733**	**0.2066**	**6.0800e-003**	**0.2126**		**1,103.4904**	**1,103.4904**	**0.0449**		**1,104.6135**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,555.6989	2,555.6989	0.6044		2,570.8077
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,555.6989**	**2,555.6989**	**0.6044**		**2,570.8077**

3.5 Building Construction - 2024

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0478	1.5288	0.5038	5.2500e-003	0.1409	1.8400e-003	0.1427	0.0406	1.7600e-003	0.0423		562.6403	562.6403	0.0318		563.4343
Worker	0.2242	0.1360	1.6254	5.4200e-003	0.6260	4.6900e-003	0.6306	0.1660	4.3200e-003	0.1703		540.8501	540.8501	0.0132		541.1792
Total	**0.2720**	**1.6648**	**2.1292**	**0.0107**	**0.7668**	**6.5300e-003**	**0.7733**	**0.2066**	**6.0800e-003**	**0.2126**		**1,103.4904**	**1,103.4904**	**0.0449**		**1,104.6135**

3.5 Building Construction - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	1.3674	12.4697	16.0847	0.0270		0.5276	0.5276		0.4963	0.4963		2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**1.3674**	**12.4697**	**16.0847**	**0.0270**		**0.5276**	**0.5276**		**0.4963**	**0.4963**		**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0465	1.5158	0.4909	5.2200e-003	0.1409	1.8000e-003	0.1427	0.0406	1.7200e-003	0.0423		559.6234	559.6234	0.0313		560.4055
Worker	0.2136	0.1244	1.5081	5.2100e-003	0.6260	4.5900e-003	0.6305	0.1660	4.2300e-003	0.1702		519.9134	519.9134	0.0120		520.2133
Total	**0.2601**	**1.6402**	**1.9991**	**0.0104**	**0.7668**	**6.3900e-003**	**0.7732**	**0.2066**	**5.9500e-003**	**0.2125**		**1,079.5368**	**1,079.5368**	**0.0433**		**1,080.6188**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.6739	14.2261	17.8738	0.0270		0.9036	0.9036		0.9036	0.9036	0.0000	2,556.4744	2,556.4744	0.6010		2,571.4981
Total	**0.6739**	**14.2261**	**17.8738**	**0.0270**		**0.9036**	**0.9036**		**0.9036**	**0.9036**	**0.0000**	**2,556.4744**	**2,556.4744**	**0.6010**		**2,571.4981**

3.5 Building Construction - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0465	1.5158	0.4909	5.2200e-003	0.1409	1.8000e-003	0.1427	0.0406	1.7200e-003	0.0423		559.6234	559.6234	0.0313		560.4055
Worker	0.2136	0.1244	1.5081	5.2100e-003	0.6260	4.5900e-003	0.6305	0.1660	4.2300e-003	0.1702		519.9134	519.9134	0.0120		520.2133
Total	**0.2601**	**1.6402**	**1.9991**	**0.0104**	**0.7668**	**6.3900e-003**	**0.7732**	**0.2066**	**5.9500e-003**	**0.2125**		**1,079.5368**	**1,079.5368**	**0.0433**		**1,080.6188**

3.6 Paving - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.9152	8.5816	14.5780	0.0228		0.4185	0.4185		0.3850	0.3850		2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.9152**	**8.5816**	**14.5780**	**0.0228**		**0.4185**	**0.4185**		**0.3850**	**0.3850**		**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0333	0.4040	1.4000e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		139.2625	139.2625	3.2100e-003		139.3429
Total	**0.0572**	**0.0333**	**0.4040**	**1.4000e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**139.2625**	**139.2625**	**3.2100e-003**		**139.3429**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Off-Road	0.5609	11.2952	17.2957	0.0228		0.6093	0.6093		0.6093	0.6093	0.0000	2,206.7452	2,206.7452	0.7137		2,224.5878
Paving	0.0000					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Total	**0.5609**	**11.2952**	**17.2957**	**0.0228**		**0.6093**	**0.6093**		**0.6093**	**0.6093**	**0.0000**	**2,206.7452**	**2,206.7452**	**0.7137**		**2,224.5878**

3.6 Paving - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0572	0.0333	0.4040	1.4000e-003	0.1677	1.2300e-003	0.1689	0.0445	1.1300e-003	0.0456		139.2625	139.2625	3.2100e-003		139.3429
Total	**0.0572**	**0.0333**	**0.4040**	**1.4000e-003**	**0.1677**	**1.2300e-003**	**0.1689**	**0.0445**	**1.1300e-003**	**0.0456**		**139.2625**	**139.2625**	**3.2100e-003**		**139.3429**

3.7 Architectural Coating - 2025

Unmitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.9321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.1709	1.1455	1.8091	2.9700e-003		0.0515	0.0515		0.0515	0.0515		281.4481	281.4481	0.0154		281.8319
Total	**22.1029**	**1.1455**	**1.8091**	**2.9700e-003**		**0.0515**	**0.0515**		**0.0515**	**0.0515**		**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Unmitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0244	0.2962	1.0200e-003	0.1230	9.0000e-004	0.1239	0.0326	8.3000e-004	0.0334		102.1259	102.1259	2.3600e-003		102.1848
Total	**0.0420**	**0.0244**	**0.2962**	**1.0200e-003**	**0.1230**	**9.0000e-004**	**0.1239**	**0.0326**	**8.3000e-004**	**0.0334**		**102.1259**	**102.1259**	**2.3600e-003**		**102.1848**

Mitigated Construction On-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Archit. Coating	21.9321					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Off-Road	0.0594	1.3570	1.8324	2.9700e-003		0.0951	0.0951		0.0951	0.0951	0.0000	281.4481	281.4481	0.0154		281.8319
Total	**21.9915**	**1.3570**	**1.8324**	**2.9700e-003**		**0.0951**	**0.0951**		**0.0951**	**0.0951**	**0.0000**	**281.4481**	**281.4481**	**0.0154**		**281.8319**

3.7 Architectural Coating - 2025

Mitigated Construction Off-Site

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Hauling	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Vendor	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000		0.0000	0.0000	0.0000		0.0000
Worker	0.0420	0.0244	0.2962	1.0200e-003	0.1230	9.0000e-004	0.1239	0.0326	8.3000e-004	0.0334		102.1259	102.1259	2.3600e-003		102.1848
Total	**0.0420**	**0.0244**	**0.2962**	**1.0200e-003**	**0.1230**	**9.0000e-004**	**0.1239**	**0.0326**	**8.3000e-004**	**0.0334**		**102.1259**	**102.1259**	**2.3600e-003**		**102.1848**

4.0 Operational Detail - Mobile

4.1 Mitigation Measures Mobile

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.6156	12.3531	37.1399	0.1602	15.5050	0.1214	15.6263	4.1482	0.1127	4.2609		16,358.3898	16,358.3898	0.7386		16,376.8554
Unmitigated	2.6156	12.3531	37.1399	0.1602	15.5050	0.1214	15.6263	4.1482	0.1127	4.2609		16,358.3898	16,358.3898	0.7386		16,376.8554

4.2 Trip Summary Information

	Average Daily Trip Rate			Unmitigated	Mitigated
Land Use	Weekday	Saturday	Sunday	Annual VMT	Annual VMT
High School	1,220.55	413.80	169.50	4,079,244	4,079,244
High School	487.24	165.19	67.66	1,628,424	1,628,424
Total	1,707.80	578.98	237.16	5,707,668	5,707,668

4.3 Trip Type Information

	Miles			Trip %			Trip Purpose %		
Land Use	H-W or C-W	H-S or C-C	H-O or C-NW	H-W or C-W	H-S or C-C	H-O or C-NW	Primary	Diverted	Pass-by
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6
High School	16.60	8.40	6.90	77.80	17.20	5.00	75	19	6

4.4 Fleet Mix

Land Use	LDA	LDT1	LDT2	MDV	LHD1	LHD2	MHD	HHD	OBUS	UBUS	MCY	SBUS	MH
High School	0.544210	0.044379	0.208611	0.117175	0.014456	0.006301	0.020907	0.032661	0.002589	0.001903	0.005267	0.000705	0.000834

5.0 Energy Detail

Historical Energy Use: N

5.1 Mitigation Measures Energy

Exceed Title 24

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
NaturalGas Mitigated	0.0334	0.3038	0.2552	1.8200e-003		0.0231	0.0231		0.0231	0.0231		364.5264	364.5264	6.9900e-003	6.6800e-003	366.6926
NaturalGas Unmitigated	0.0407	0.3701	0.3109	2.2200e-003		0.0281	0.0281		0.0281	0.0281		444.1278	444.1278	8.5100e-003	8.1400e-003	446.7670

5.2 Energy by Land Use - NaturalGas

Unmitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	1076.93	0.0116	0.1056	0.0887	6.3000e-004		8.0200e-003	8.0200e-003		8.0200e-003	8.0200e-003		126.6973	126.6973	2.4300e-003	2.3200e-003	127.4502
High School	2698.16	0.0291	0.2645	0.2222	1.5900e-003		0.0201	0.0201		0.0201	0.0201		317.4305	317.4305	6.0800e-003	5.8200e-003	319.3168
Total		**0.0407**	**0.3701**	**0.3109**	**2.2200e-003**		**0.0281**	**0.0281**		**0.0281**	**0.0281**		**444.1278**	**444.1278**	**8.5100e-003**	**8.1400e-003**	**446.7670**

Mitigated

	NaturalGas Use	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Land Use	kBTU/yr	lb/day										lb/day					
High School	0.883909	9.5300e-003	0.0867	0.0728	5.2000e-004		6.5900e-003	6.5900e-003		6.5900e-003	6.5900e-003		103.9893	103.9893	1.9900e-003	1.9100e-003	104.6072
High School	2.21457	0.0239	0.2171	0.1824	1.3000e-003		0.0165	0.0165		0.0165	0.0165		260.5372	260.5372	4.9900e-003	4.7800e-003	262.0854
Total		**0.0334**	**0.3038**	**0.2552**	**1.8200e-003**		**0.0231**	**0.0231**		**0.0231**	**0.0231**		**364.5264**	**364.5264**	**6.9800e-003**	**6.6900e-003**	**366.6926**

6.0 Area Detail

6.1 Mitigation Measures Area

Reseda High School Modernization - Los Angeles-South Coast County, Winter

Use Electric Leafblower

Use Low VOC Paint - Residential Interior

Use Low VOC Paint - Residential Exterior

Use Low VOC Paint - Non-Residential Interior

Use Low VOC Paint - Non-Residential Exterior

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
Category	lb/day										lb/day					
Mitigated	2.7927	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Unmitigated	2.9611	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309

6.2 Area by SubCategory

Unmitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.3365					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.2400e-003	1.2000e-004	0.0135	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0290	0.0290	8.0000e-005		0.0309
Total	**2.9611**	**1.2000e-004**	**0.0135**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0290**	**0.0290**	**8.0000e-005**		**0.0309**

Mitigated

	ROG	NOx	CO	SO2	Fugitive PM10	Exhaust PM10	PM10 Total	Fugitive PM2.5	Exhaust PM2.5	PM2.5 Total	Bio- CO2	NBio- CO2	Total CO2	CH4	N2O	CO2e
SubCategory	lb/day										lb/day					
Architectural Coating	0.1683					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Consumer Products	2.6233					0.0000	0.0000		0.0000	0.0000			0.0000			0.0000
Landscaping	1.1100e-003	1.2000e-004	0.0131	0.0000		5.0000e-005	5.0000e-005		5.0000e-005	5.0000e-005		0.0278	0.0278	7.0000e-005		0.0295
Total	**2.7927**	**1.2000e-004**	**0.0131**	**0.0000**		**5.0000e-005**	**5.0000e-005**		**5.0000e-005**	**5.0000e-005**		**0.0278**	**0.0278**	**7.0000e-005**		**0.0295**

7.0 Water Detail

7.1 Mitigation Measures Water

Install Low Flow Bathroom Faucet

Install Low Flow Kitchen Faucet

Install Low Flow Toilet

Install Low Flow Shower

Use Water Efficient Irrigation System

8.0 Waste Detail

8.1 Mitigation Measures Waste

9.0 Operational Offroad

Equipment Type	Number	Hours/Day	Days/Year	Horse Power	Load Factor	Fuel Type

10.0 Stationary Equipment

Fire Pumps and Emergency Generators

Equipment Type	Number	Hours/Day	Hours/Year	Horse Power	Load Factor	Fuel Type

Boilers

Equipment Type	Number	Heat Input/Day	Heat Input/Year	Boiler Rating	Fuel Type

User Defined Equipment

Equipment Type	Number

11.0 Vegetation

APPENDIX B

Arborist Report

Carlberg ASSOCIATES

Horticulturists and
Registered Consulting
ARBORISTS

CITY OF LOS ANGELES PROTECTED TREE REPORT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA 91335

SUBMITTED TO:

DANA L. SMITH
JOHNSON FAIN
1201 NORTH BROADWAY
LOS ANGELES, CALIFORNIA 90012

PREPARED BY:

CY CARLBERG
ASCA REGISTERED CONSULTING ARBORIST #405
ISA CERTIFIED ARBORIST #WE 0575A
ISA QUALIFIED TREE RISK ASSESSOR
CAUFC CERTIFIED URBAN FORESTER #013

Santa Monica Office
828 Fifth Street, Suite 3
Santa Monica, California 90403
Office: 310.451.4804

Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
Office: 626.428.5072

www.cycarlberg.com

MARCH 16, 2018

CITY OF LOS ANGELES PROTECTED TREE REPORT – RESEDA HIGH SCHOOL – RESEDA, CALIFORNIA

TABLE OF CONTENTS

EXECUTIVE SUMMARY 1

BACKGROUND AND ASSIGNMENT 1

OBSERVATIONS 2

CONCLUSION 2

TABLE 1 – TREE INVENTORY 3

EXHIBIT 1 – AERIAL IMAGE OF SUBJECT PROPERTY 10

EXHIBIT 2 – REDUCED COPY OF TREE LOCATION MAP (2 SHEETS) 11

CAPTIONED TREE PHOTOGRAPHS 22

HEALTH AND STRUCTURE GRADE DEFINITIONS 49

ARBORIST DISCLOSURE STATEMENT 51

RESUME 52

COVER SHEET FOR TREE LOCATION EXHIBIT (11 SHEETS) 54
(INSERT MAP POCKETS)

Carlberg ASSOCIATES
Horticulturists and Registered Consulting ARBORISTS

March 16, 2018

Dana L. Smith
Johnson Fain
1201 North Broadway
Los Angeles, California 90012

Re: Reseda High School, 18230 Kittridge Street, Reseda, California

Dear Mr. Smith,

EXECUTIVE SUMMARY

This tree report was prepared in conjunction with the City of Los Angeles Tree Preservation Ordinance No. 177.404 and the Los Angeles Unified School District guidelines. According to the Ordinance, "protected" trees are coast live oak, western Sycamore, Southern California black walnut, or California bay laurel with trunk diameters (measured at 4.5 feet above grade) of 4 inches or greater. "Significant" trees are any tree with a trunk diameter of 8 inches or larger. A total of 132 trees were inventoried on the subject property. Of the 132 trees, four are considered "protected" and the remaining 128 are considered "significant" trees. City of Los Angeles rights-of-way trees were not inventoried and therefore not included in this report. There are no off-site trees on contiguous properties that are affected by the construction of the proposed project.

BACKGROUND AND ASSIGNMENT

The Los Angeles Unified School District (LAUSD) is proposing a school modernization project. The 132 inventoried trees are located throughout the property. We were retained to visit the property and inventory and photograph all "protected" and "significant" trees. A comprehensive analysis of each tree as it pertains to construction was not requested and is not a part of this study. This report is based on our site visit of February 20, 2018.

Santa Monica Office
828 Fifth Street, Suite 3
Santa Monica, California 90403
Office: 310.451.4804

Sierra Madre Office
80 West Sierra Madre Boulevard, #241
Sierra Madre, California 91024
Office: 626.428.5072

www.cycarlberg.com

OBSERVATIONS

We inventoried 132 trees of various species. Tree trunks were recorded in the field, from grade, using Surveying & Drafting Services, Inc.'s Topographic Survey (August 16, 2017). The on-site trees were numbered and tagged with an embossed aluminum tag.

Table 1 summarizes the inventoried trees and their protected status. Captioned photographs and exhibits at the end of this report illustrate site context, tree locations, tree structure, and vigor. A full-sized copy of the 'Tree Location Exhibit' is included in back pockets at the end of this report.

CONCLUSION

Once the design is finalized, LAUSD may request an analysis of construction impacts to each tree and recommendations for protection of trees during the construction process. We are available to provide a proposal for this study as requested; this assignment was only for a site analysis.

Very truly yours,

Cy Carlberg, Registered Consulting Arborist
Principal, Carlberg Associates

TABLE 1 –TREE INVENTORY

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
1	chitalpa *Chitalpa x tashkentensis*	8.5	20	22/20	B	C	No	Significant
2	Arizona ash *Fraxinus velutina*	9	30	18/22	B	B	No	Significant
3	Arizona ash *Fraxinus velutina*	10	30	20/25	B	B	No	Significant
4	American sweetgum *Liquidambar styraciflua*	13	30	30/25	B	B-	No	Significant
5	Canary Island pine *Pinus canariensis*	23	70	30/35	B	B	No	Significant
6	American sweetgum *Liquidambar styraciflua*	8	30	15/15	B	B	No	Significant
7	American sweetgum *Liquidambar styraciflua*	21.5	50	15/15	C-	D	No	Significant
8	American sweetgum *Liquidambar styraciflua*	10.5	30	12/15	B-	B-	No	Significant
9	magnolia *Magnolia grandiflora*	25.5	45	32/36	B	B	No	Significant
10	Hollywood juniper *Juniperus chinensis* 'Torulosa'	4, 12.5	30	18/25	B	B	No	Significant
11	Hollywood juniper *Juniperus chinensis* 'Torulosa'	7, 13	35	18/25	B	B	No	Significant
12	Hollywood juniper *Juniperus chinensis* 'Torulosa'	17	30	20/20	B	B	No	Significant
13	Hollywood juniper *Juniperus chinensis* 'Torulosa'	13	30	15/18	B	B	No	Significant
14	fern pine *Afrocarpus falcatus*	25.5	50	35/35	A	B	No	Significant
15	Hollywood juniper *Juniperus chinensis* 'Torulosa'	7.5, 12	30	15/15	B	B	No	Significant
16	Hollywood juniper *Juniperus chinensis* 'Torulosa'	15.5, 17	35	40/35	B	B	No	Significant
17	aleppo pine *Pinus halepensis*	43.5	65	55/65	B	B-	No	Significant
18	Hollywood juniper *Juniperus chinensis* 'Torulosa'	16, 20.5	30	35/35	B	B	No	Significant
19	crape myrtle *Lagerstroemia indica*	5, 5.5, 6	18	20/22	C-	D	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
20	ginkgo *Ginkgo biloba*	20	45	30/30	B	B	No	Significant
21	ginkgo *Ginkgo biloba*	19	40	25/25	B	B	No	Significant
22	crape myrtle *Lagerstroemia indica*	12 at 3.5'	22	25/30	B	B-	No	Significant
23	crape myrtle *Lagerstroemia indica*	11 at 3'	23	20/25	B	B-	No	Significant
24	camphor *Cinnamomum camphora*	5, 6, 6.5	20	20/15	D	C-	No	Significant
25	aleppo pine *Pinus halepensis*	41	70	55/60	B	B-	No	Significant
26	aleppo pine *Pinus halepensis*	28, 38.5	70	55/50	B-	B--	No	Significant
27	aleppo pine *Pinus halepensis*	47	70	50/45	B	B	No	Significant
28	aleppo pine *Pinus halepensis*	14, 29	30	40/30	B-	C-	No	Significant
29	aleppo pine *Pinus halepensis*	16, 22, 27, 28	60	55/45	B	C	No	Significant
30	aleppo pine *Pinus halepensis*	38	70	45/60	B	B	No	Significant
31	aleppo pine *Pinus halepensis*	31	70	50/45	B	B	No	Significant
32	aleppo pine *Pinus halepensis*	41	70	45/52	B	B	No	Significant
33	Chinese flame tree *Koelreuteria bipinnata*	10, 10	30	30/30	B	B	No	Significant
34	Chinese flame tree *Koelreuteria bipinnata*	10, 10	30	30/35	B	B	No	Significant
35	Chinese flame tree *Koelreuteria bipinnata*	6.5, 8.5	25	25/25	B-	B	No	Significant
36	Chinese flame tree *Koelreuteria bipinnata*	7.5, 7.5	25	25/25	B	B	No	Significant
37	Chinese flame tree *Koelreuteria bipinnata*	7.5, 7.5, 8	30	30/30	B	B	No	Significant
38	Arizona ash *Fraxinus velutina*	9.5	20	15/15	B	B-	No	Significant
39	Arizona ash *Fraxinus velutina*	8.5	18	10/10	B-	B-	No	Significant
40	California privet *Ligustrum ovalifolium*	9.5	20	20/20	B	B	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
41	tipu tree *Tipuana tipu*	16.5	35	42/36	B	B-	No	Significant
42	tipu tree *Tipuana tipu*	15.5	35	35/35	B	B-	No	Significant
43	tipu tree *Tipuana tipu*	16.5	35	35/35	B	B-	No	Significant
44	Kurrajong *Brachychiton populneus*	7.5, 12.5	15	15/15	B-	C-	No	Significant
45	camphor *Cinnamomum camphora*	7, 9	25	20/25	B-	B	No	Significant
46	camphor *Cinnamomum camphora*	8.5	20	23/20	B-	B	No	Significant
47	camphor Cinnamomum camphora	8	25	25/22	B-	B	No	Significant
48	pink trumpet *Handroanthus impetiginosus*	20	45	40/40	B	B	No	Significant
49	mimosa tree *Albizia julibrissin*	6, 7, 8, 11.5	30	40/45	C-	C-	No	Significant
50	tulip tree *Liriodendron tulipifera*	20	40	15/22	B	B-	No	Significant
51	deodar cedar Cedrus deodara	19	40	42/35	A-	A-	No	Significant
52	tulip tree *Liriodendron tulipifera*	12.5	30	0	F	F	No	Significant
53	tulip tree *Liriodendron tulipifera*	13	35	0	F	F	No	Significant
54	American sweetgum *Liquidambar styraciflua*	9	30	12/15	B	B	No	Significant
55	American sweetgum *Liquidambar styraciflua*	19	35	25/22	B-	B	No	Significant
56	American sweetgum *Liquidambar styraciflua*	16	25	20/25	C	C-	No	Significant
57	jacaranda *Jacaranda mimosifolia*	33	60	50/42	B	B	No	Significant
58	jacaranda *Jacaranda mimosifolia*	27.5	60	45/15	B	B	No	Significant
59	ginkgo *Ginkgo biloba*	16	40	25/25	B	B	No	Significant
60	aleppo pine *Pinus halepensis*	24.5, 28.5	70	60/65	B	B	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
61	aleppo pine *Pinus halepensis*	78 at base	70	85/80	B	B	No	Significant
62	magnolia *Magnolia grandiflora*	19.5	40	38/30	B	B	No	Significant
63	mimosa tree *Albizia julibrissin*	11,1 2.5	25	30/40	D	D	No	Significant
64	jacaranda *Jacaranda mimosifolia*	17	45	40/36	B	B	No	Significant
65	mimosa tree *Albizia julibrissin*	9, 10.5	30	33/30	B-	B-	No	Significant
66	Chinese elm *Ulmus parvifolia*	22	40	30/38	C	B-	No	Significant
67	Chinese elm *Ulmus parvifolia*	15	40	50/42	B	B	No	Significant
68	Chinese elm *Ulmus parvifolia*	22	45	48/36	C	B-	No	Significant
69	Chinese elm *Ulmus parvifolia*	24.5	45	50/50	C-	B-	No	Significant
70	Chinese elm *Ulmus parvifolia*	13.5	30	40/40	B	B-	No	Significant
71	Chinese elm *Ulmus parvifolia*	14	40	45/45	C-	B-	No	Significant
72	Chinese elm *Ulmus parvifolia*	19	40	40/42	B-	B	No	Significant
73	Chinese elm *Ulmus parvifolia*	24.5	45	45/48	B-	B	No	Significant
74	shamel ash *Fraxinus uhdei*	33.5	60	30/50	B	B	No	Significant
75	shamel ash *Fraxinus uhdei*	36	60	45/60	B-	B	No	Significant
76	shamel ash *Fraxinus uhdei*	27	50	20/55	C	B-	No	Significant
77	shamel ash *Fraxinus uhdei*	31.5	60	45/50	B-	B	No	Significant
78	shamel ash *Fraxinus uhdei*	28	60	35/45	B-	B-	No	Significant
79	American sweetgum *Liquidambar styraciflua*	19	50	30/25	B-	B	No	Significant
80	crape myrtle *Lagerstroemia indica*	4, 5, 5.5	20	20/20	B-	B	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
81	shamel ash Fraxinus uhdei	37	40	45/50	A	B	No	Significant
82	chitalpa Chitalpa x tashkentensis	8	25	30/30	B	B	No	Significant
83	coast live oak Quercus agrifolia	19 at 4'	35	13/18/16//15 N/E/S/W	B	B-	No	Protected
84	coast live oak Quercus agrifolia	12.5	35	10/14/12/13 N/E/S/W	A-	B	No	Protected
85	coast live oak Quercus agrifolia	7	25	10/7/12/14 N/E/S/W	B	B	No	Protected
86	Hollywood juniper Juniperus chinensis 'Torulosa'	14	30	15/15	B	B	No	Significant
87	Hollywood juniper Juniperus chinensis 'Torulosa'	15	25	28/25	B	B	No	Significant
88	Hollywood juniper Juniperus chinensis 'Torulosa'	9.5	35	15/12	B-	B	No	Significant
89	Hollywood juniper Juniperus chinensis 'Torulosa'	12	35	15/15	B-	B	No	Significant
90	Hollywood juniper Juniperus chinensis 'Torulosa'	14	30	12/15	B-	B	No	Significant
91	coastal redwood Sequoia sempervirens	15	45	8/8	C-	B	No	Significant
92	coastal redwood Sequoia sempervirens	35	60	45/42	B	B	Yes	Significant
93	coastal redwood Sequoia sempervirens	44.5	60	45/36	B	B	Yes	Significant
94	Arizona ash Fraxinus velutina	16.5	30	30/25	B-	B-	No	Significant
95	Chinese elm Ulmus parvifolia	8	20	10/10	C-	B-	No	Significant
96	crape myrtle Lagerstroemia indica	10	25	25/20	B-	B	No	Significant
97	American sweetgum Liquidambar styraciflua	30.5	50	43/30	B	B	No	Significant
98	camphor Cinnamomum camphora	6, 6	25	20/15	B-	B-	No	Significant
99	Chinese elm Ulmus parvifolia	22	50	42/35	B-	B-	No	Significant
100	Chinese elm Ulmus parvifolia	22.5	50	40/45	B-	B-	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
101	crape myrtle Lagerstroemia indica	5.5, 10.5	25	20/25	B-	B	No	Significant
102	aleppo pine Pinus halepensis	30	60	60/35	A	B	No	Significant
103	aleppo pine Pinus halepensis	34	60	60/50	A-	B	No	Significant
104	London plane Platanus x acerifolia	17	40	15/20	C	C-	No	Significant
105	aleppo pine Pinus halepensis	26	50	35/30	B	B-	No	Significant
106	aleppo pine Pinus halepensis	28.5	60	55/40	B	B-	No	Significant
107	aleppo pine Pinus halepensis	26	55	0/40	B	B-	No	Significant
108	London plane Platanus x acerifolia	18.5	40	30/35	B-	B-	No	Significant
109	London plane Platanus x acerifolia	15.5	40	30/25	B	B	No	Significant
110	London plane Platanus x acerifolia	17	40	25/30	B	B	No	Significant
111	valley oak Quercus lobata	14.5, 29	45	24/32/30/19 N/E/S/W	C	B-	No	Protected
112	Arizona ash Fraxinus velutina	16.5	25	20/20	C	B-	No	Significant
113	ginkgo Ginkgo biloba	16.5	35	30/25	B	B	No	Significant
114	London plane Platanus x acerifolia	16.5	45	35/25	B-	B-	No	Significant
115	diamond leaf pittosporum Pittosporum rhombifolium	4.5, 6, 8	30	20/20	B	B-	No	Significant
116	shamel ash Fraxinus uhdei	35.5 at 3'	50	45/40	B-	B	No	Significant
117	Japanese loquat Eriobotrya japonica	6.5, 7	20	18/20	B	C-	No	Significant
118	shamel ash Fraxinus uhdei	19	45	25/30	B	B	No	Significant
119	shamel ash Fraxinus uhdei	20.5	50	20/30	A-	B	No	Significant
120	shamel ash Fraxinus uhdei	22 at 3.5'	50	25/35	B-	B	No	Significant

Tree #	Common Name / *Botanical Name*	DBH(s) (inches)	Height (feet)	Canopy Spread NS/EW	Health	Structure	Scenic[1] (CEQA)	Protected
121	Chinaberry Melia azedarach	23.5, 24.5, 25, 30	40	35/65	B	B	No	Significant
122	diamond leaf pittosporum Pittosporum rhombifolium	5.5, 5.5, 9	20	20/20	B-	B	No	Significant
123	Chinese elm Ulmus parvifolia	6, 7.5, 8, 8, 9	35	55/45	C-	C-	No	Significant
124	London plane Platanus x acerifolia	15.5	40	30/35	B	B	No	Significant
125	Kurrajong Brachychiton populneus	19, 19.5, 24	40	35/45	B	B	No	Significant
126	Kurrajong Brachychiton populneus	13, 13.5	30	25/35	B	B	No	Significant
127	Chinese flame tree Koelreuteria bipinnata	8	15	20/20	B	B	No	Significant
128	Arizona ash Fraxinus velutina	17	40	0	D	B-	No	Significant
129	Canary Island pine Pinus canariensis	14	50	20/20	B-	B	No	Significant
130	aleppo pine Pinus halepensis	22.5 at 2.5'	50	35/40	B	B	No	Significant
131	aleppo pine Pinus halepensis	25.5	50	35/55	B	B	No	Significant
132	aleppo pine Pinus halepensis	36	50	45/55	B	B	No	Significant

1 - A scenic tree is highly visible, prominent and possesses unique or distinctive aesthetic qualities due to its size, structure, unusual specimen, etc.

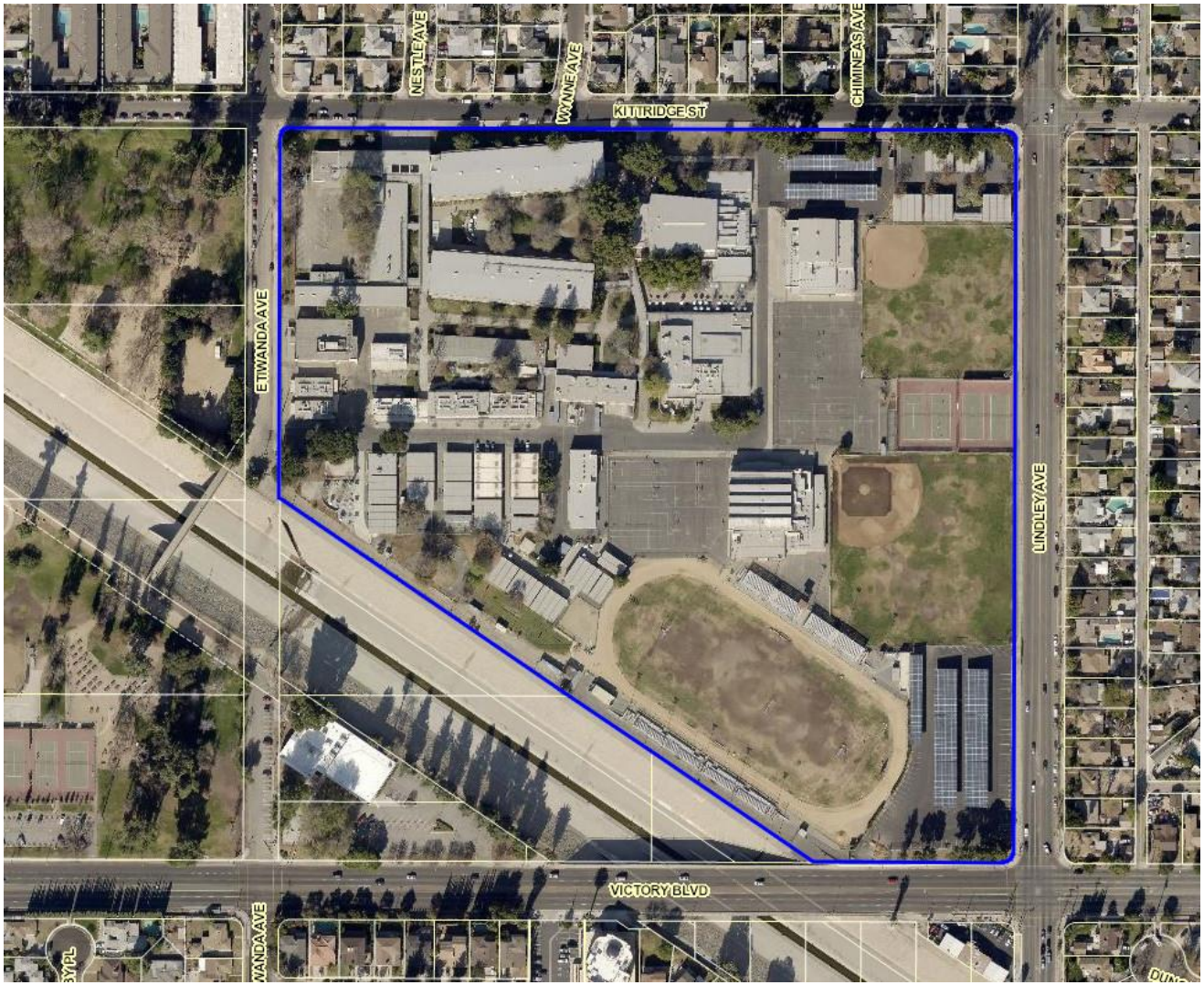


EXHIBIT 1 - AERIAL VIEW OF THE SUBJECT AREA
RESEDA HIGH SCHOOL, 18230 KITTRIDGE STREET, RESEDA, CA
SOURCE: CITY OF LOS ANGELES - ZIMAS

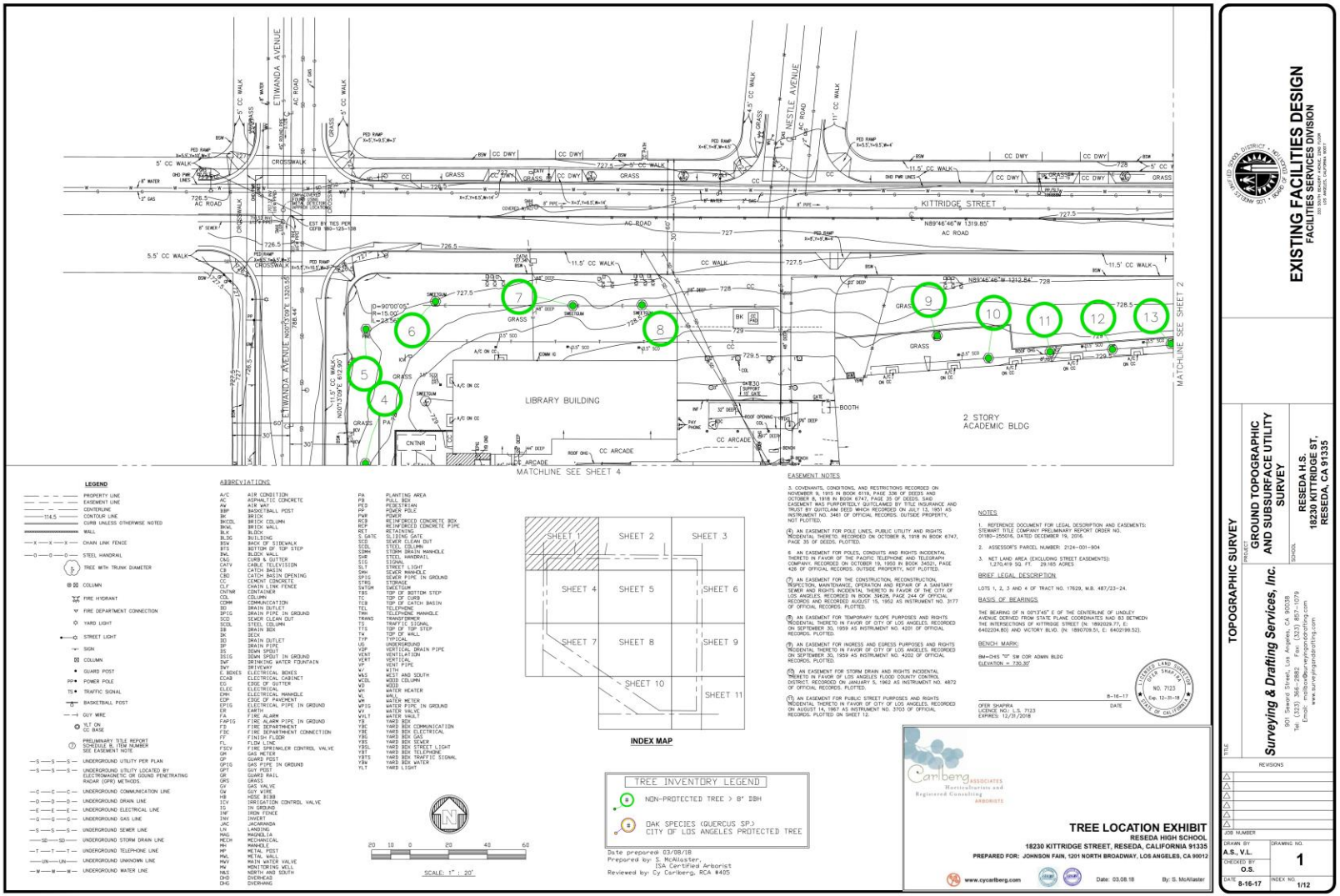
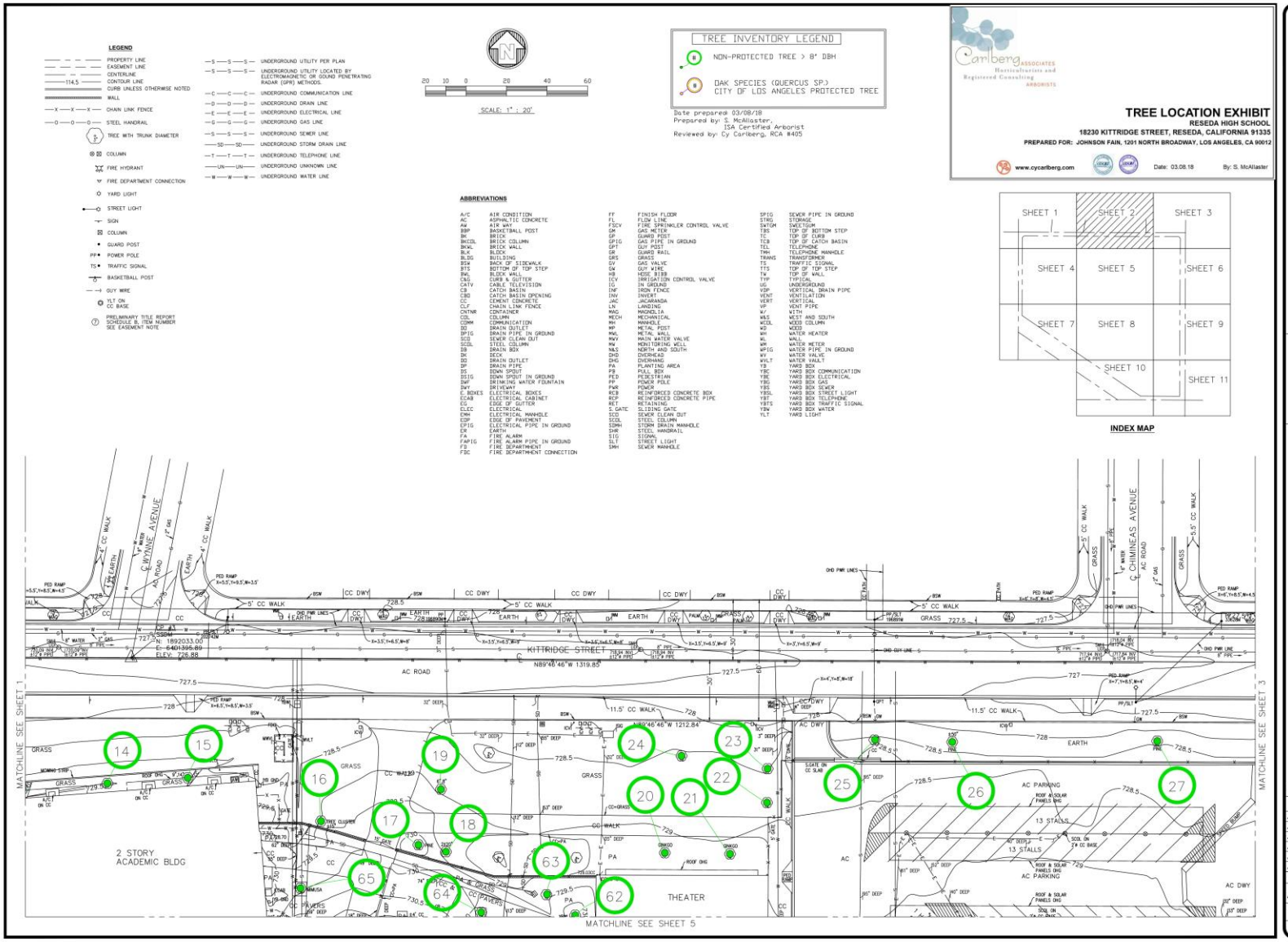
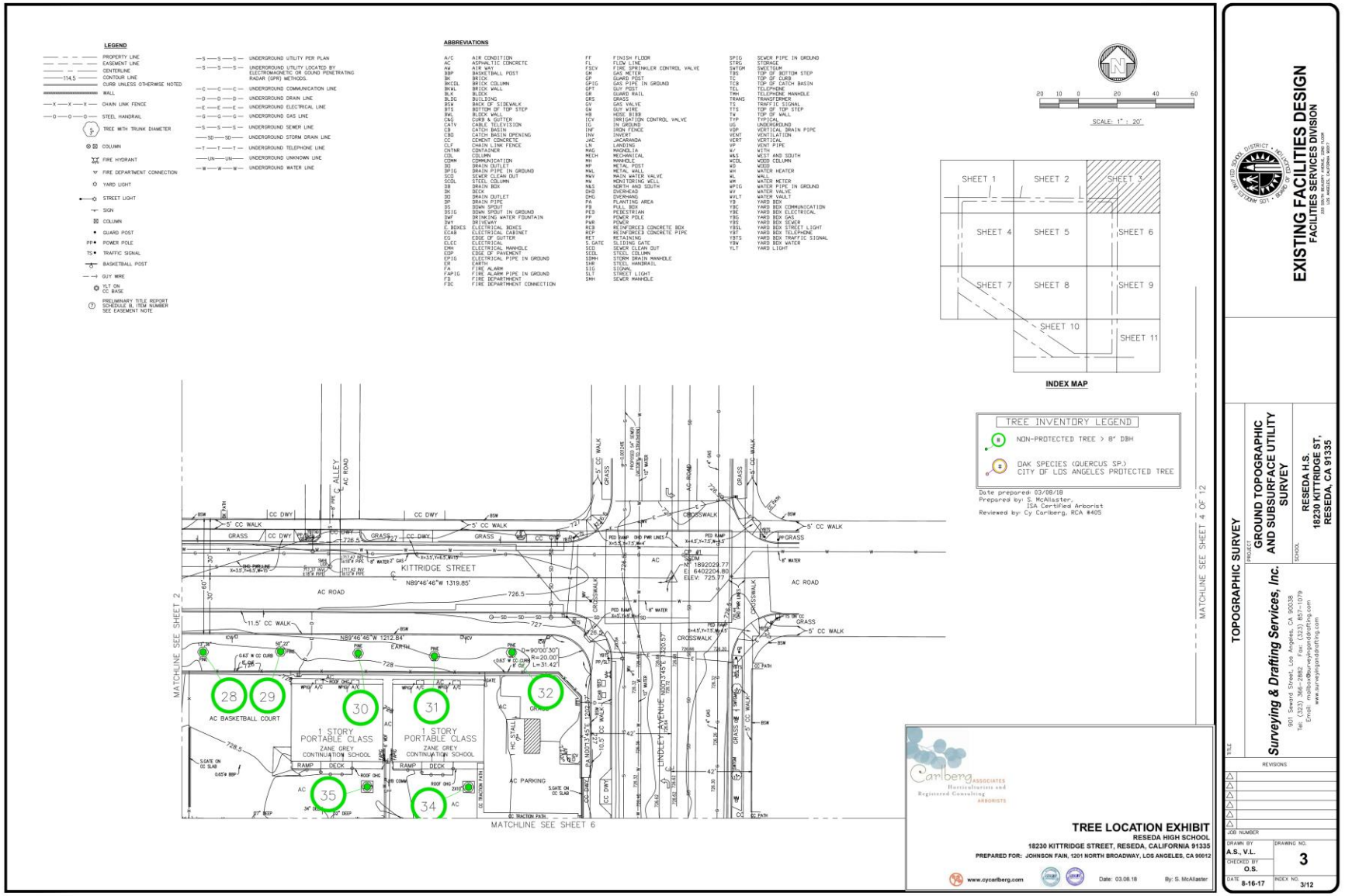
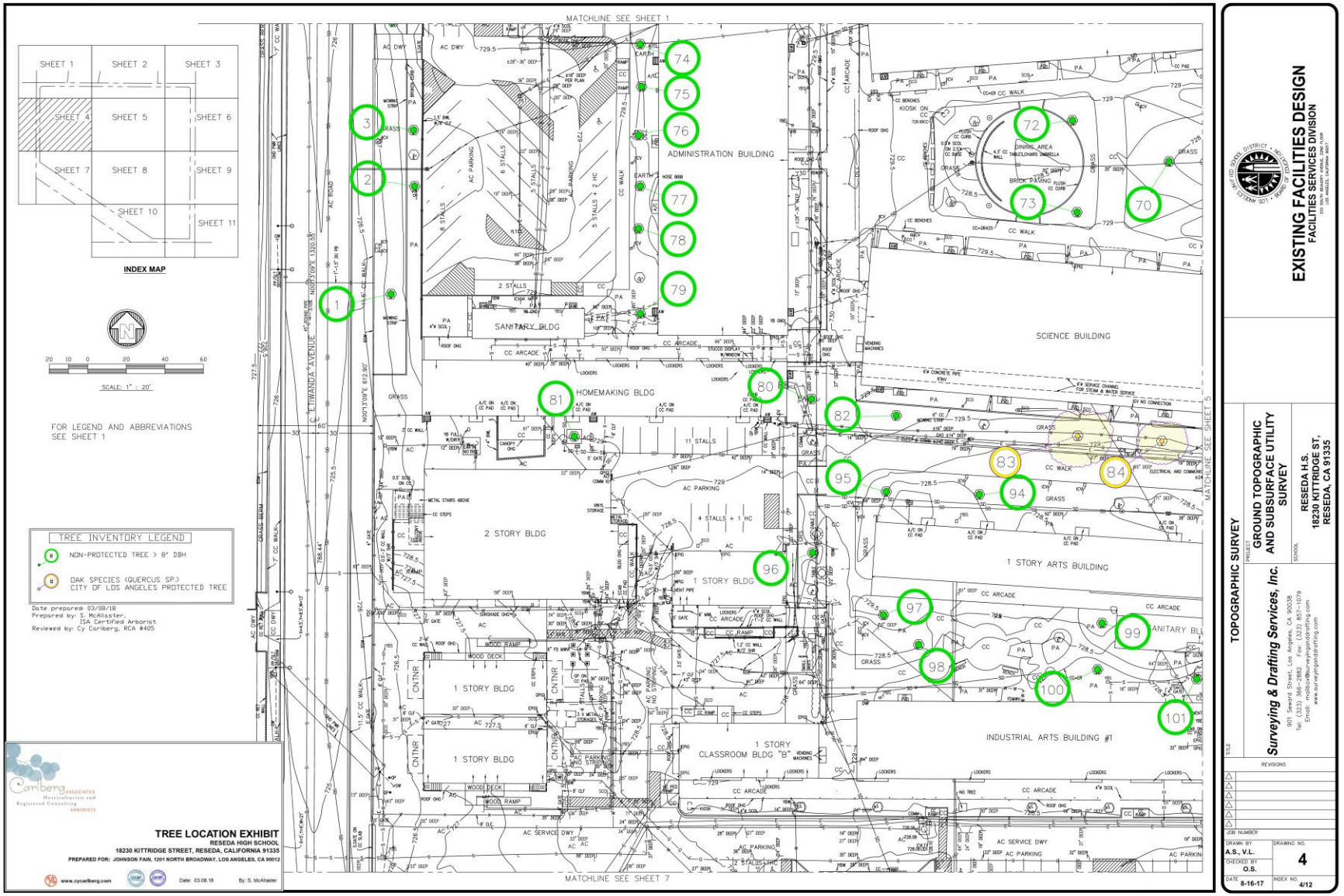
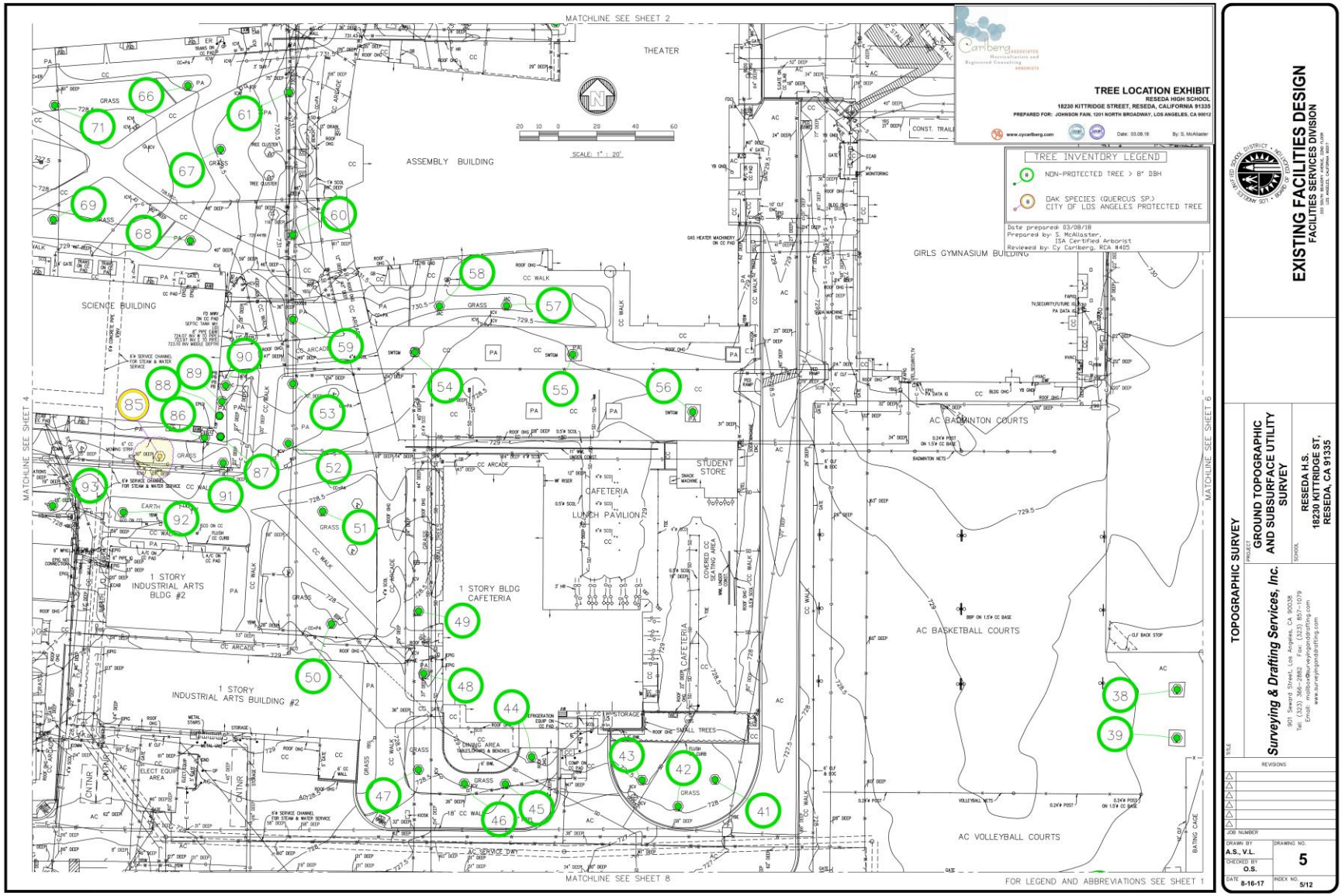


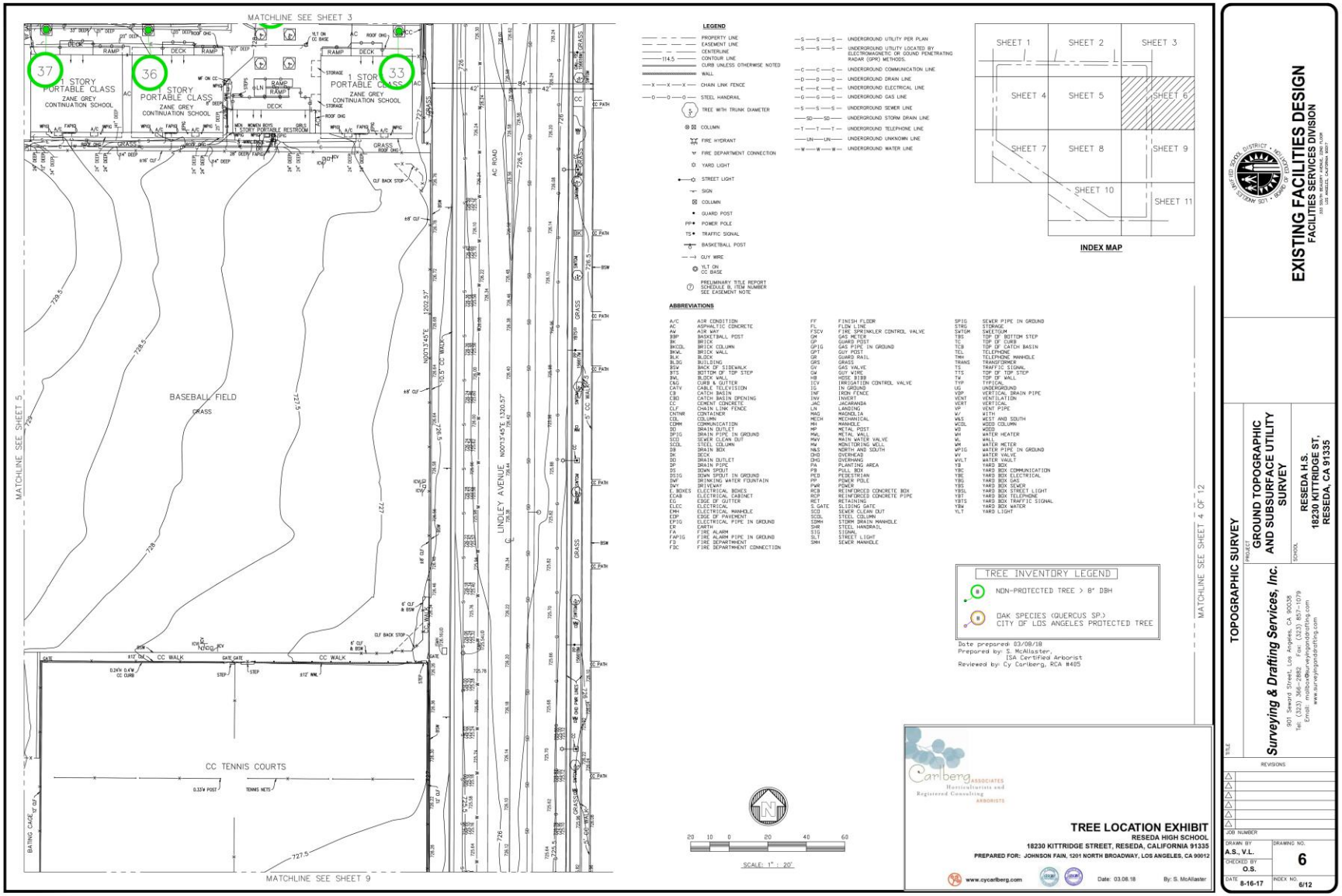
EXHIBIT 2 – REDUCED COPY OF TREE LOCATION EXHIBITS (11 SHEETS)

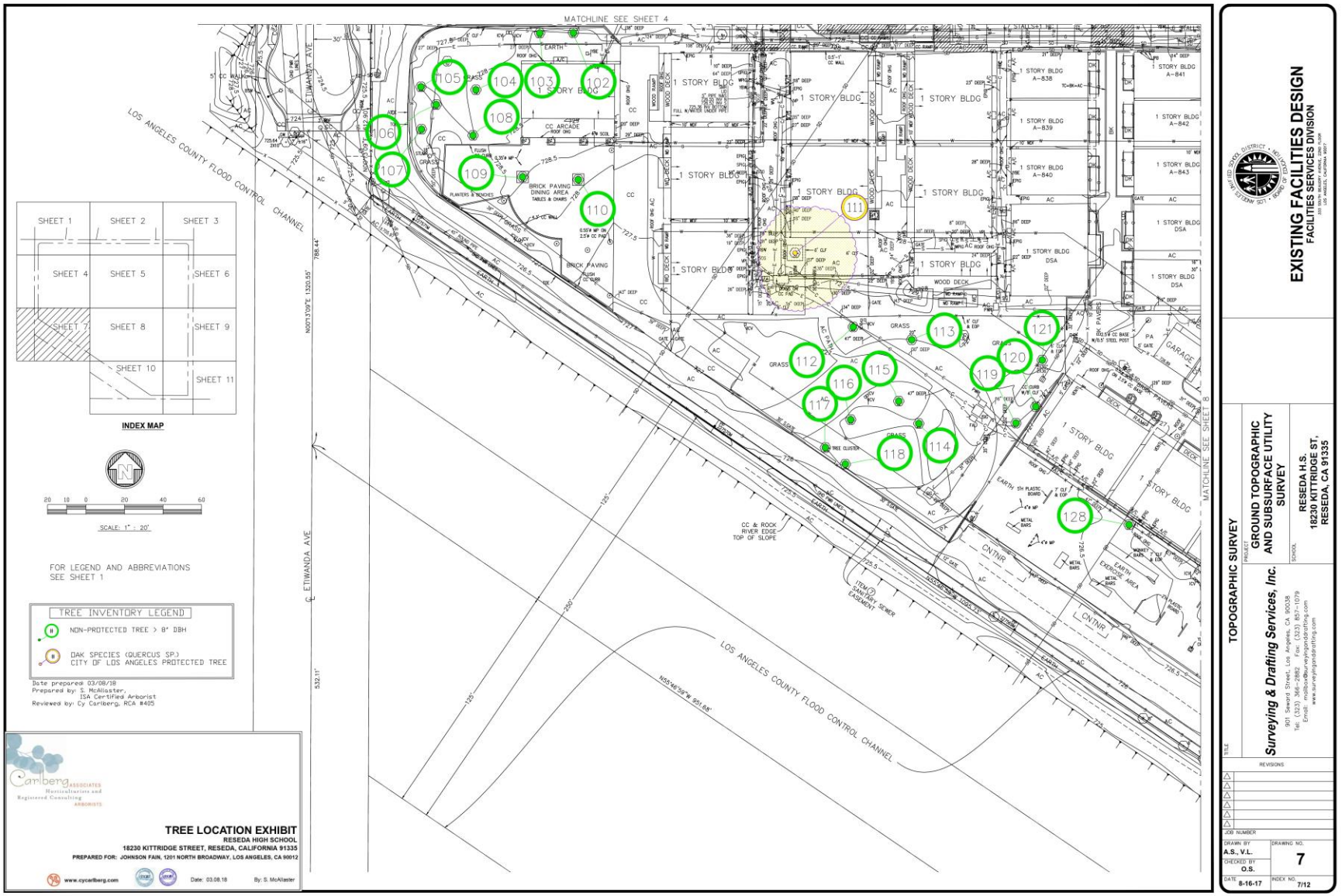

LEGEND
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
SCALE: 1" : 20'
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
ABBREVIATIONS
INDEX MAP
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
KITTRIDGE STREET
WYNNE AVENUE
C. MIRANDEAS AVENUE
2 STORY ACADEMIC BLDG
THEATER
AC PARKING
MATCHLINE SEE SHEET 1
MATCHLINE SEE SHEET 3
MATCHLINE SEE SHEET 5
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 2
INDEX NO. 2/12

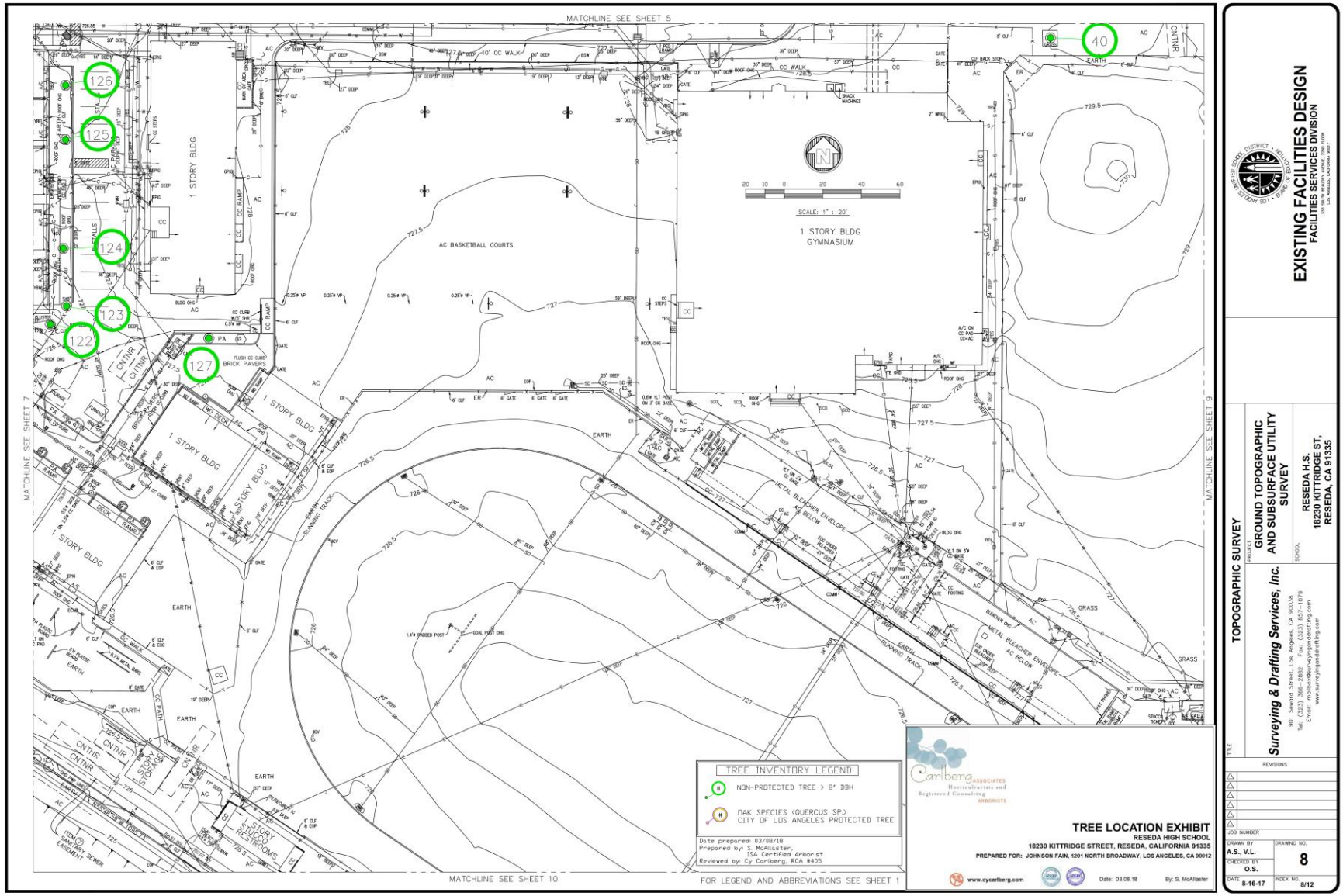

LEGEND
PROPERTY LINE
EASEMENT LINE
CENTERLINE
CONTOUR LINE
CURB UNLESS OTHERWISE NOTED
WALL
CHAIN LINK FENCE
STEEL HANDRAIL
TREE WITH TRUNK DIAMETER
COLUMN
FIRE HYDRANT
FIRE DEPARTMENT CONNECTION
YARD LIGHT
STREET LIGHT
SIGN
COLUMN
GUARD POST
POWER POLE
TRAFFIC SIGNAL
BASKETBALL POST
GUY WIRE
TLT ON CC BASE
PRELIMINARY TITLE REPORT SCHEDULE B, ITEM NUMBER SEE EASEMENT NOTE
UNDERGROUND UTILITY PER PLAN
UNDERGROUND UTILITY LOCATED BY ELECTROMAGNETIC OR SOUND PENETRATING RADAR (GPR) METHODS.
UNDERGROUND COMMUNICATION LINE
UNDERGROUND DRAIN LINE
UNDERGROUND ELECTRICAL LINE
UNDERGROUND GAS LINE
UNDERGROUND SEWER LINE
UNDERGROUND STORM DRAIN LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND UNKNOWN LINE
UNDERGROUND WATER LINE
ABBREVIATIONS
SCALE: 1" : 20'
INDEX MAP
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
KITTRIDGE STREET
AC ROAD
ALLEY
AC BASKETBALL COURT
1 STORY PORTABLE CLASS ZANE GREY CONTINUATION SCHOOL
AC PARKING
LINDLEY AVENUE
MATCHLINE SEE SHEET 2
MATCHLINE SEE SHEET 4 OF 12
MATCHLINE SEE SHEET 6
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cycarlberg.com
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 3
INDEX NO. 3/12

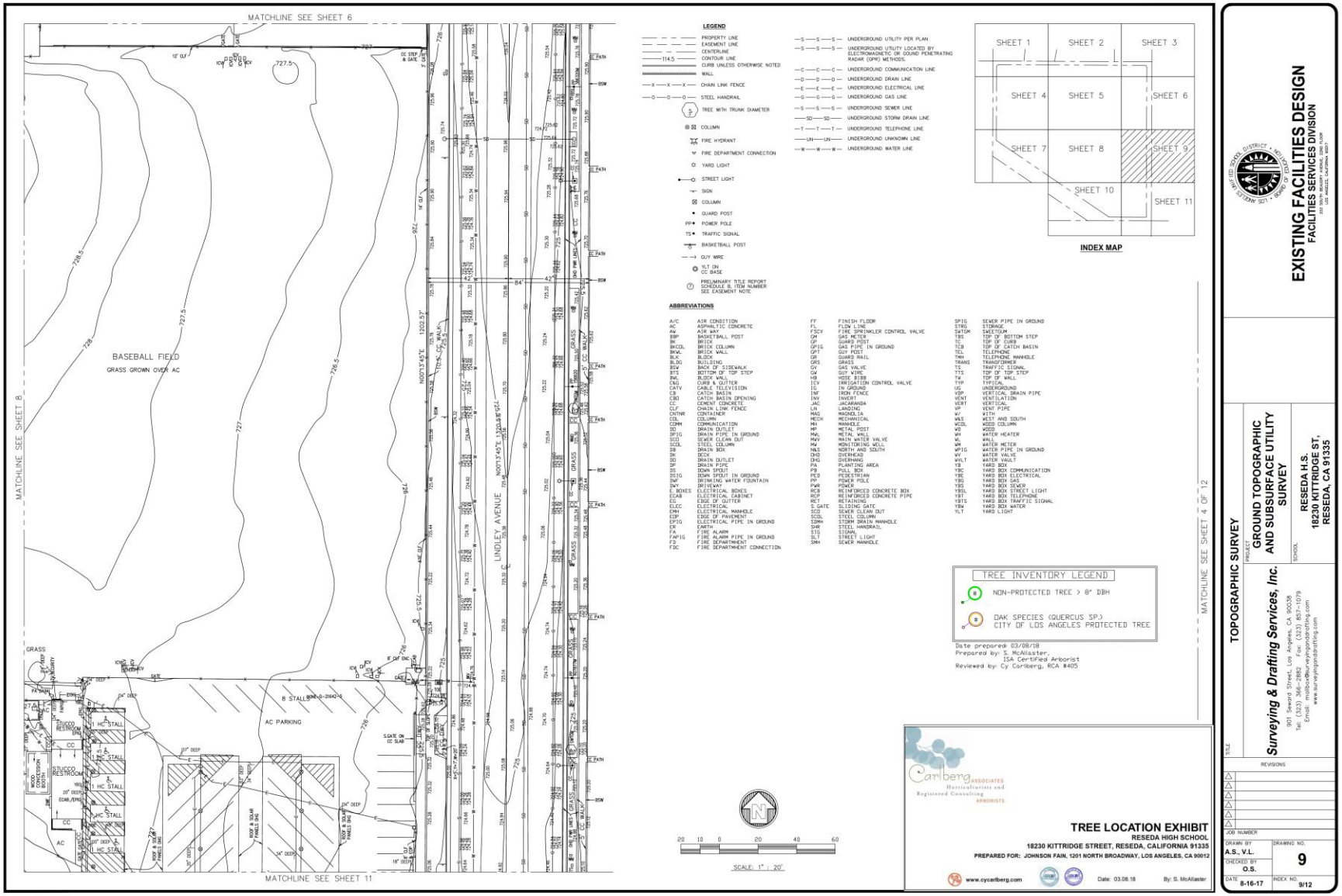

MATCHLINE SEE SHEET 1
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
INDEX MAP
SCALE: 1" = 20'
FOR LEGEND AND ABBREVIATIONS SEE SHEET 1
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster; ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
ADMINISTRATION BUILDING
SANITARY BLDG
HOMEMAKING BLDG
SCIENCE BUILDING
2 STORY BLDG
1 STORY BLDG
1 STORY ARTS BUILDING
1 STORY CLASSROOM BLDG "B"
INDUSTRIAL ARTS BUILDING #1
MATCHLINE SEE SHEET 7
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 4
INDEX NO. 4/12

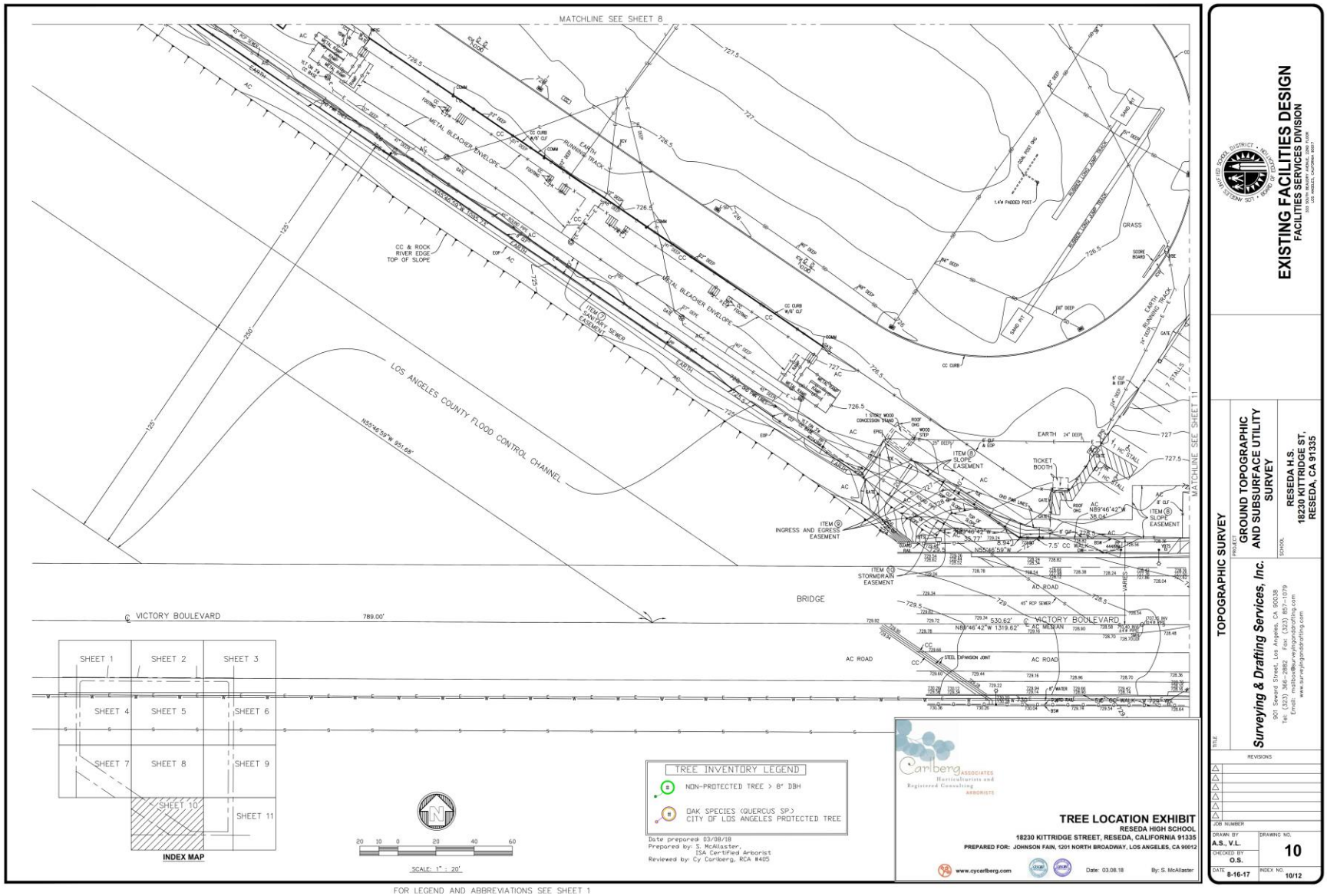

MATCHLINE SEE SHEET 2
THEATER
ASSEMBLY BUILDING
SCIENCE BUILDING
GIRLS GYMNASIUM BUILDING
AC BADMINTON COURTS
AC BASKETBALL COURTS
AC VOLLEYBALL COURTS
STUDENT STORE
CAFETERIA
LUNCH PAVILION
1 STORY BLDG CAFETERIA
1 STORY INDUSTRIAL ARTS BLDG #2
1 STORY INDUSTRIAL ARTS BUILDING #2
MATCHLINE SEE SHEET 4
MATCHLINE SEE SHEET 6
MATCHLINE SEE SHEET 8
FOR LEGEND AND ABBREVIATIONS SEE SHEET 1
SCALE: 1" : 20'
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Ly Carlberg, RCA #405
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST.
RESEDA, CA 91335
Surveying & Drafting Services, Inc.
901 Seward Street, Los Angeles, CA 90038
TEL: (323) 871-1717 FAX: (323) 871-1719
Email: mail@carlbergsurveyinganddrafting.com
www.surveyingandcraftingcom
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DRAWING NO. 5
DATE 8-16-17
INDEX NO. 5/12

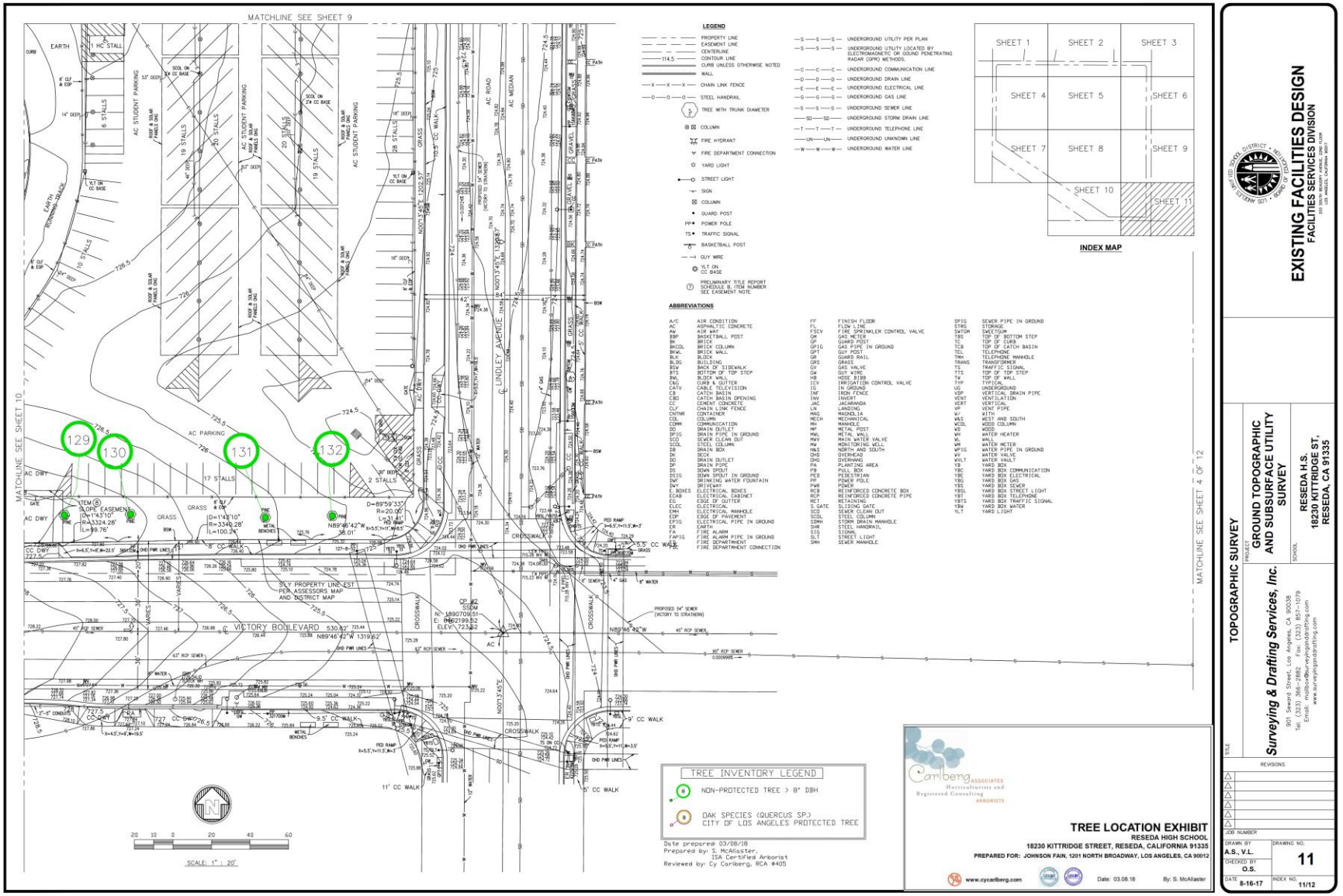

MATCHLINE SEE SHEET 3
MATCHLINE SEE SHEET 5
MATCHLINE SEE SHEET 9
MATCHLINE SEE SHEET 4 OF 12
BASEBALL FIELD
GRASS
CC TENNIS COURTS
LINDLEY AVENUE
AC ROAD
CC WALK
37
36
33
1 STORY PORTABLE CLASS
ZANE GREY CONTINUATION SCHOOL
1 STORY PORTABLE RESTROOM
RAMP
DECK
STORAGE
BATING CAGE
TENNIS NETS
N00°13'45"E 1320.57'
N00°13'45"E 1202.57'
SCALE: 1" = 20'
LEGEND
PROPERTY LINE
EASEMENT LINE
CENTERLINE
CONTOUR LINE
CURB UNLESS OTHERWISE NOTED
WALL
CHAIN LINK FENCE
STEEL HANDRAIL
TREE WITH TRUNK DIAMETER
COLUMN
FIRE HYDRANT
FIRE DEPARTMENT CONNECTION
YARD LIGHT
STREET LIGHT
SIGN
COLUMN
GUARD POST
POWER POLE
TRAFFIC SIGNAL
BASKETBALL POST
GUY WIRE
YLT ON CC BASE
PRELIMINARY TITLE REPORT SCHEDULE B, ITEM NUMBER SEE EASEMENT NOTE
UNDERGROUND UTILITY PER PLAN
UNDERGROUND UTILITY LOCATED BY ELECTROMAGNETIC OR SOUND PENETRATING RADAR (GPR) METHODS.
UNDERGROUND COMMUNICATION LINE
UNDERGROUND DRAIN LINE
UNDERGROUND ELECTRICAL LINE
UNDERGROUND GAS LINE
UNDERGROUND SEWER LINE
UNDERGROUND STORM DRAIN LINE
UNDERGROUND TELEPHONE LINE
UNDERGROUND UNKNOWN LINE
UNDERGROUND WATER LINE
INDEX MAP
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
ABBREVIATIONS
A/C AIR CONDITION
AC ASPHALTIC CONCRETE
AW AIR WAY
BBP BASKETBALL POST
BK BRICK
BKCOL BRICK COLUMN
BKWL BRICK WALL
BLK BLOCK
BLDG BUILDING
BSW BACK OF SIDEWALK
BTS BOTTOM OF TOP STEP
BW BLOCK WALL
C&G CURB & GUTTER
CATV CABLE TV RISER
CB CATCH BASIN
CBO CATCH BASIN OPENING
CC CEMENT CONCRETE
CLF CHAIN LINK FENCE
CNTNR CONTAINER
COL COLUMN
COMM COMMUNICATION
DO DRAIN OUTLET
DPIG DRAIN PIPE IN GROUND
SCO SEWER CLEAN OUT
SCOL STEEL COLUMN
DB DRAIN BOX
DK DECK
DO DRAIN OUTLET
DP DRAIN PIPE
DS DOWN SPOUT
DSIG DOWN SPOUT IN GROUND
DWF DRINKING WATER FOUNTAIN
EB ELECTRICAL BOXES
ECAB ELECTRICAL CABINET
EG EDGE OF GUTTER
ELEC ELECTRICAL
EMH ELECTRICAL MANHOLE
EOP EDGE OF PAVEMENT
EPIG ELECTRICAL PIPE IN GROUND
ER EARTH
FA FIRE ALARM
FAPIG FIRE ALARM PIPE IN GROUND
FD FIRE DEPARTMENT
FDC FIRE DEPARTMENT CONNECTION
FF FINISH FLOOR
FL FLOW LINE
FSCV FIRE SPRINKLER CONTROL VALVE
GM GAS METER
GP GUARD POST
GPIG GAS PIPE IN GROUND
GPT GUY POST
GR GUARD RAIL
GRS GRASS
GV GAS VALVE
GW GUY WIRE
HB HOSE BIBB
ICV IRRIGATION CONTROL VALVE
INF INFILTRATIONS
INF IRON FENCE
INV INVERT
JAC JACARANDA
LN LANDING
MAG MAGNOLIA
MECH MECHANICAL
MH MANHOLE
MP METAL POST
MWL METAL WALL
MWV MAIN WATER VALVE
MW MONITORING WELL
N&S NORTH AND SOUTH
OHD OVERHEAD
OHG OVERHANG
PA PLANTING AREA
PB PULL BOX
PED PEDESTRIAN
PP POWER POLE
PWR POWER
RCB REINFORCED CONCRETE BOX
RCP REINFORCED CONCRETE PIPE
RET RETAINING
S. GATE SLIDING GATE
SCO SEWER CLEAN OUT
SCOL STEEL COLUMN
SDMH STORM DRAIN MANHOLE
SHR STEEL HANDRAIL
SIG SIGNAL
SLT STREET LIGHT
SMH SEWER MANHOLE
SPIG SEWER PIPE IN GROUND
STRG STORAGE
SWTGM SWEETGUM
TBS TOP OF BOTTOM STEP
TC TOP OF CURB
TCB TOP OF CATCH BASIN
TEL TELEPHONE
TMH TELEPHONE MANHOLE
TRANS TRANSFORMER
TS TRAFFIC SIGNAL
TTS TOP OF TOP STEP
TW TOP OF WALL
TYP TYPICAL
UG UNDERGROUND
VDP VERTICAL DRAIN PIPE
VENT VENTILATION
VERT VERTICAL
VP VENT PIPE
W/ WITH
W&S WEST AND SOUTH
WCOL WOOD COLUMN
WD WOOD
WH WATER HEATER
WL WALL
WM WATER METER
WPIG WATER PIPE IN GROUND
WV WATER VALVE
WVLT WATER VAULT
YB YARD BOX
YBC YARD BOX COMMUNICATION
YBE YARD BOX ELECTRICAL
YBG YARD BOX GAS
YBS YARD BOX SEWER
YBSL YARD BOX STREET LIGHT
YBT YARD BOX TELEPHONE
YBTS YARD BOX TRAFFIC SIGNAL
YBW YARD BOX WATER
YLT YARD LIGHT
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cycarlberg.com
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
901 Seward Street, Los Angeles, CA 90038
Tel: (323) 366-2882 Fax: (323) 857-1079
Email: mollock@surveyingandrafting.com
www.surveyingandrafting.com
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 6
INDEX NO. 6/12


MATCHLINE SEE SHEET 4
LOS ANGELES COUNTY FLOOD CONTROL CHANNEL
ETIWANDA AVE
1 STORY BLDG
WOOD DECK
GRASS
AC
CC
MATCHLINE SEE SHEET 5
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
INDEX MAP
SCALE: 1" = 20'
FOR LEGEND AND ABBREVIATIONS SEE SHEET 1
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared 03/08/18
Prepared by: S. McAlister, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
Date: 03.08.18
By: S. McAlister
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST.
RESEDA, CA 91335
Surveying & Drafting Services, Inc.
901 Sewell Street, Los Angeles, CA 90038
Tel: (323) 368-2882 Fax: (323) 857-1079
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 7
INDEX NO. 7/12


MATCHLINE SEE SHEET 5
MATCHLINE SEE SHEET 7
MATCHLINE SEE SHEET 9
MATCHLINE SEE SHEET 10
1 STORY BLDG
GYMNASIUM
AC BASKETBALL COURTS
SCALE: 1" : 20'
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
FOR LEGEND AND ABBREVIATIONS SEE SHEET 1
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cycarlberg.com
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
901 Sewell Street, Los Angeles, CA 90038
Tel: (323) 366-2882 Fax: (323) 857-1079
Email: mail@carlbergsurveying&drafting.com
www.carlbergsurveying&drafting.com
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DRAWING NO. 8
DATE 8-16-17
INDEX NO. 8/12


MATCHLINE SEE SHEET 6
MATCHLINE SEE SHEET 8
MATCHLINE SEE SHEET 11
BASEBALL FIELD
GRASS GROWN OVER AC
LINDLEY AVENUE
AC PARKING
8 STALL
GRASS
LEGEND
INDEX MAP
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
ABBREVIATIONS
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.)
CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster,
ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
MATCHLINE SEE SHEET 4 OF 12
SCALE: 1" = 20'
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cyecarlberg.com
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST,
RESEDA, CA 91335
Surveying & Drafting Services, Inc.
901 Sawyer Street, Los Angeles, CA 90035
Tel: (323) 366-2882 Fax: (323) 857-1079
Email: mattox@surveyinganddrafting.com
www.surveyingandrafting.com
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 9
INDEX NO. 9/12


MATCHLINE SEE SHEET 8
MATCHLINE SEE SHEET 11
LOS ANGELES COUNTY FLOOD CONTROL CHANNEL
N55°46'59"W 951.68'
VICTORY BOULEVARD
789.00'
BRIDGE
VICTORY BOULEVARD
N89°46'42"W 1319.62'
530.62'
AC MEDIAN
AC ROAD
AC ROAD
CC & ROCK RIVER EDGE TOP OF SLOPE
METAL BLEACHER ENVELOPE
EARTH RUNNING TRACK
GRASS
TICKET BOOTH
1 STORY WOOD CONCESSION STAND
ITEM (8) SLOPE EASEMENT
ITEM (9) INGRESS AND EGRESS EASEMENT
ITEM (10) STORMDRAIN EASEMENT
ITEM (7) SANITARY SEWER EASEMENT
7.5' CC WALK
STEEL EXPANSION JOINT
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
INDEX MAP
SCALE: 1" = 20'
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cycarlberg.com
Date: 03.08.18
By: S. McAllaster
FOR LEGEND AND ABBREVIATIONS SEE SHEET 1
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST, RESEDA, CA 91335
Surveying & Drafting Services, Inc.
REVISIONS
JOB NUMBER
DRAWN BY A.S., V.L.
CHECKED BY O.S.
DATE 8-16-17
DRAWING NO. 10
INDEX NO. 10/12


MATCHLINE SEE SHEET 9
MATCHLINE SEE SHEET 10
MATCHLINE SEE SHEET 4 OF 12
LEGEND
ABBREVIATIONS
INDEX MAP
SHEET 1
SHEET 2
SHEET 3
SHEET 4
SHEET 5
SHEET 6
SHEET 7
SHEET 8
SHEET 9
SHEET 10
SHEET 11
C LINDLEY AVENUE
VICTORY BOULEVARD
AC PARKING
17 STALLS
129
130
131
132
SCALE: 1" : 20'
TREE INVENTORY LEGEND
NON-PROTECTED TREE > 8" DBH
OAK SPECIES (QUERCUS SP.) CITY OF LOS ANGELES PROTECTED TREE
Date prepared: 03/08/18
Prepared by: S. McAllaster, ISA Certified Arborist
Reviewed by: Cy Carlberg, RCA #405
TREE LOCATION EXHIBIT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET, RESEDA, CALIFORNIA 91335
PREPARED FOR: JOHNSON FAIN, 1201 NORTH BROADWAY, LOS ANGELES, CA 90012
www.cycarlberg.com
Date: 03.08.18
By: S. McAllaster
EXISTING FACILITIES DESIGN
FACILITIES SERVICES DIVISION
TOPOGRAPHIC SURVEY
GROUND TOPOGRAPHIC AND SUBSURFACE UTILITY SURVEY
RESEDA H.S.
18230 KITTRIDGE ST,
RESEDA, CA 91335
Surveying & Drafting Services, Inc.
DRAWING NO. 11
DATE 8-16-17
INDEX NO. 11/12

CAPTIONED TREE PHOTOGRAPHS

Tree #1

Trees #2(R) & 3(L)

Tree #4

Tree #5

Tree #6

Trees #7(L) & 8(R)

Tree #9

Trees #10(R) & 11(L)

Trees #12(R) & 13(L)

Tree #14

Tree #15

Tree #16

Tree #17(R) & 18(L)

Tree #17 – illustrating seam and cavity at base

Tree #19

Trees #20(R) & 21(L)

Tree #22(R) & 23(L)

Tree #24

Tree #25

Tree #26

Tree #27

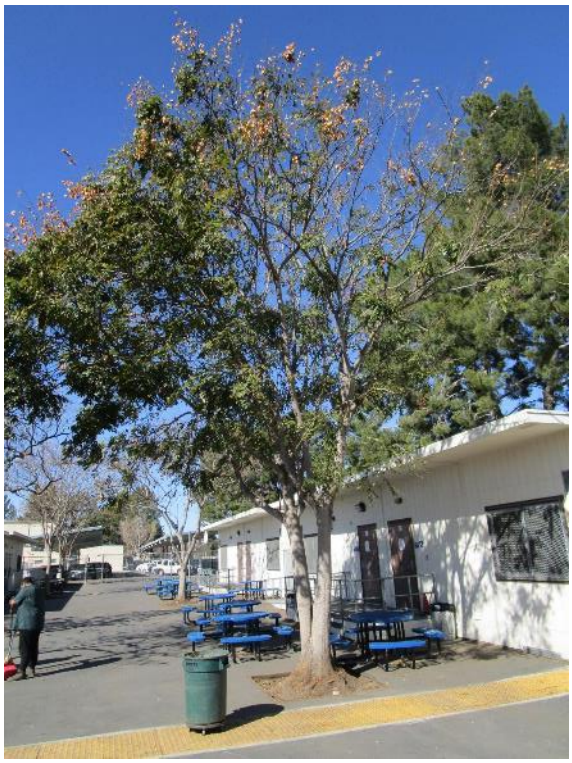
Tree #28

Tree #29

Tree #30

Trees #31(R) & 32(L)

Tree #33



Tree #34

Tree #35

Tree #36

Tree #37

Trees #38(L) & 39(R)

Tree #40

Trees #41(R), 42(C) & 43(L)

Tree #44

Trees #45(R), 46(C) & 47(L)

Tree #48

Tree #49

Tree #50

Tree #51

Trees #52(R) & 53(L)

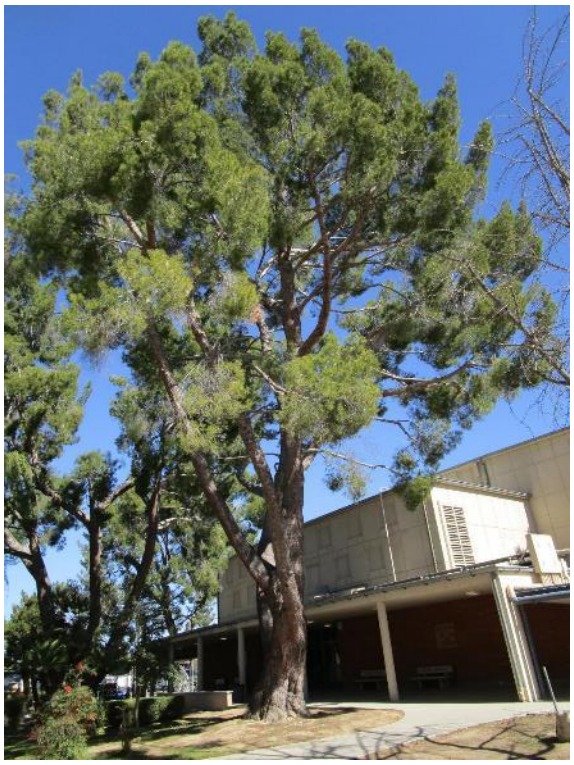
Tree #54

Tree #55

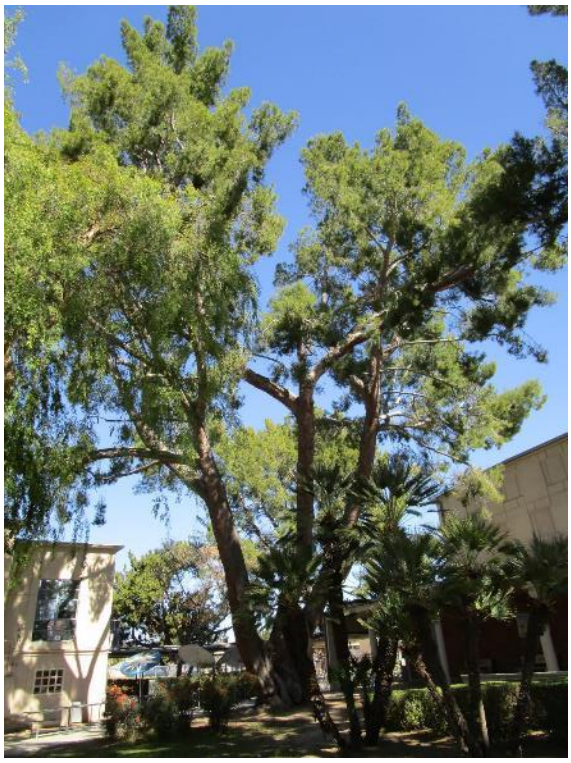
Tree #56

Trees #57(R) & 58(L)

Tree #59



Tree #60



Tree #61

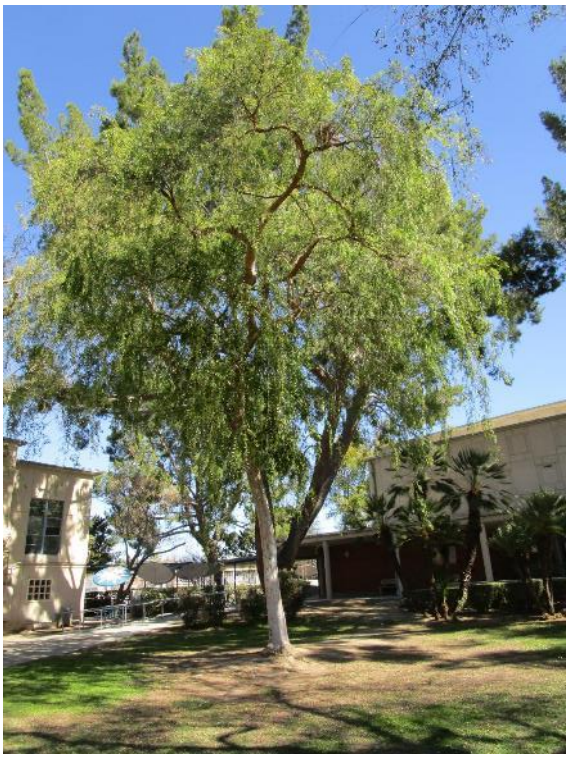
Tree #62

Tree #63

Tree #64

Tree #65

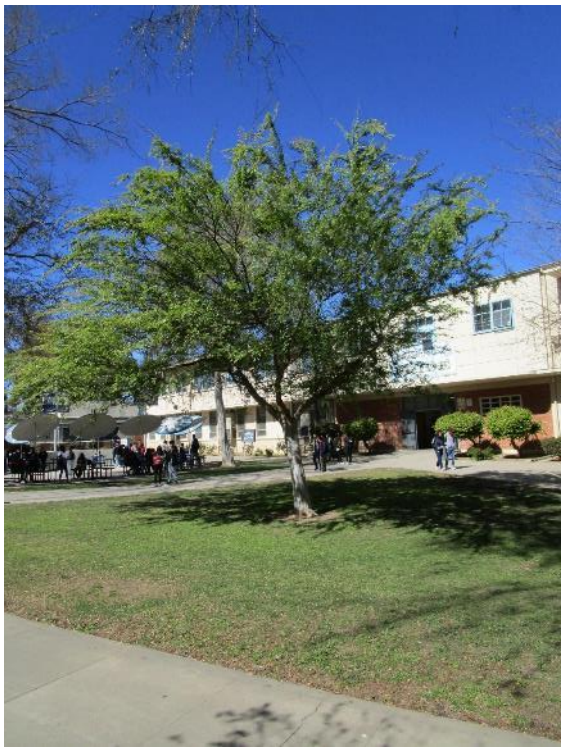
Tree #66



Tree #67

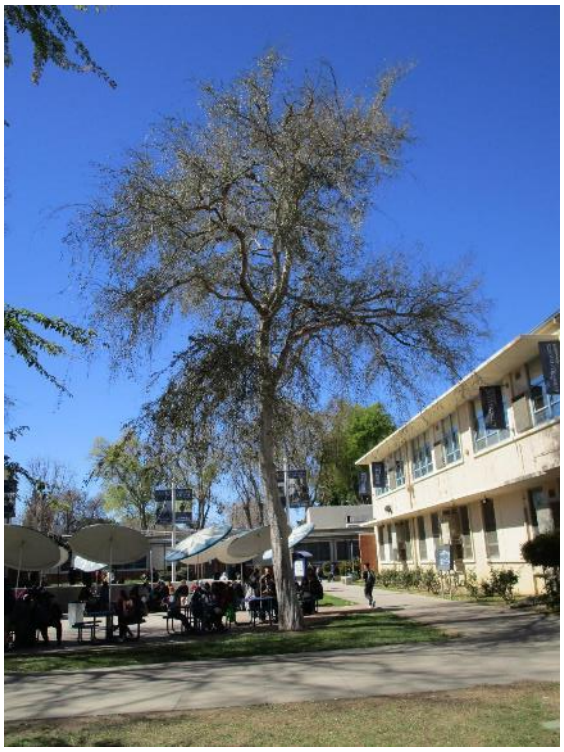
Tree #68

Tree #69

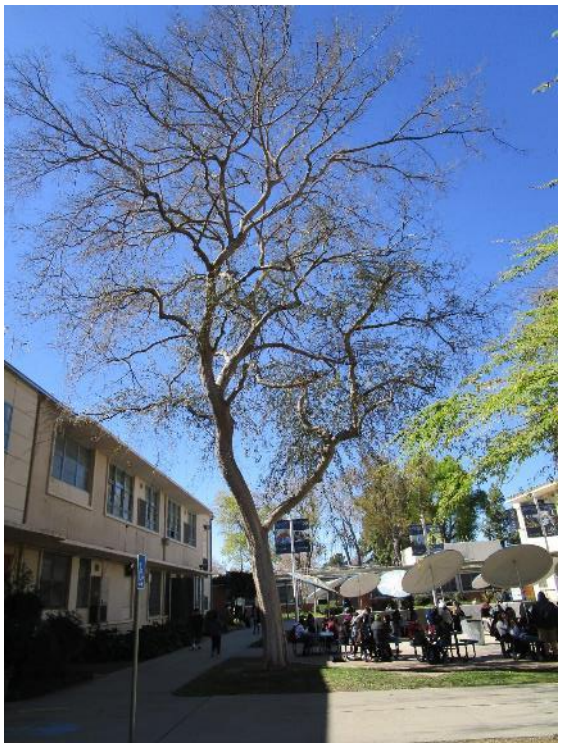


Tree #70

Tree #71



Tree #72



Tree #73

Trees #74 – 78 (left to right)

Tree #79

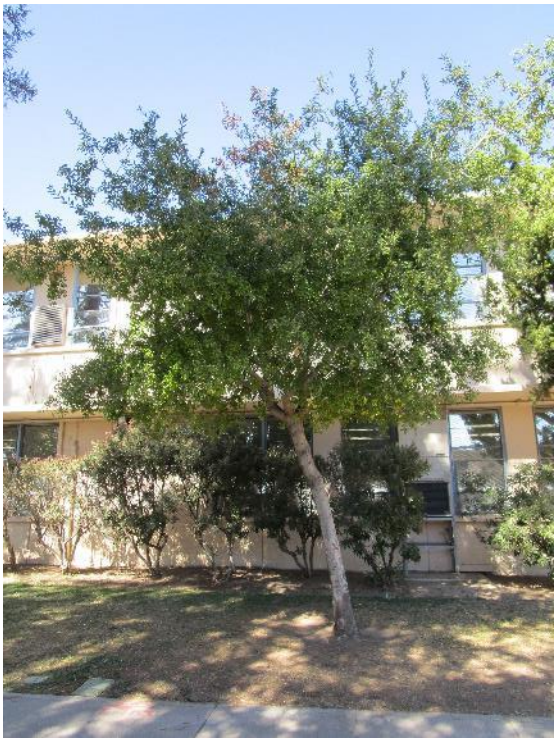
Tree #80

Tree #81

Tree #82

Tree #83

Tree #84



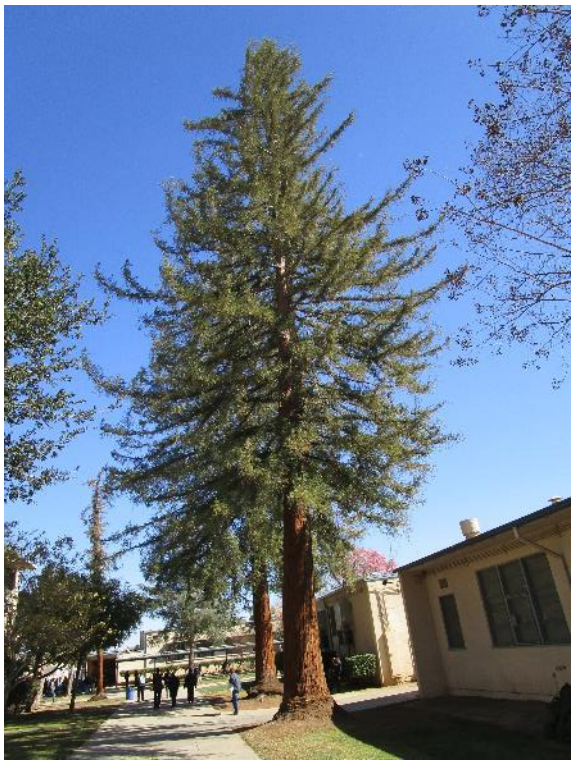
Tree #85

Tree #86

Trees #87 – 90 (left to right)

Tree #91

Tree #92



Tree #93

Tree #94

Tree #95

Tree #96

Tree #97

Tree #98

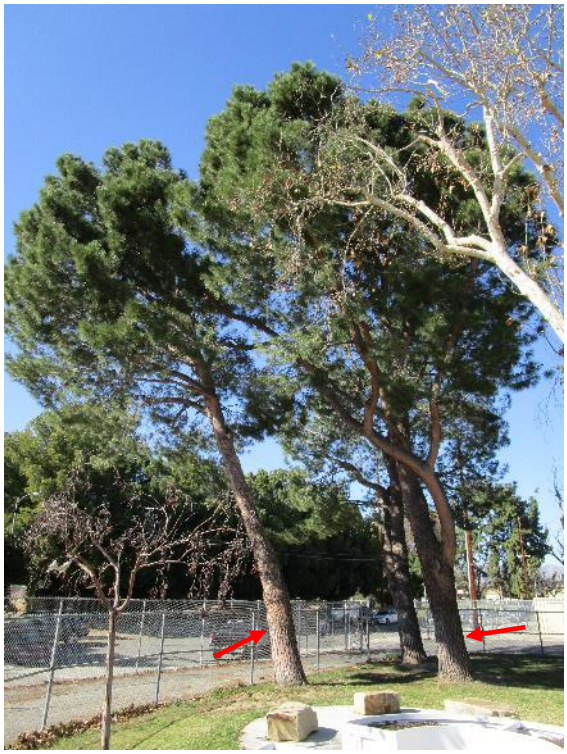
Trees #99(L) & 100(R)

Tree #101

Trees #102(L) & 103(R)

Tree #104

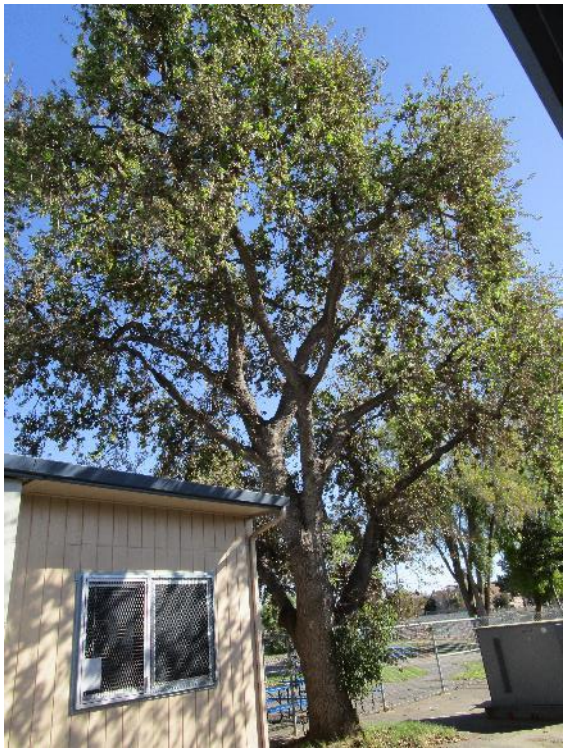
Tree #105



Trees #106(R) & 107(L)

Tree #108

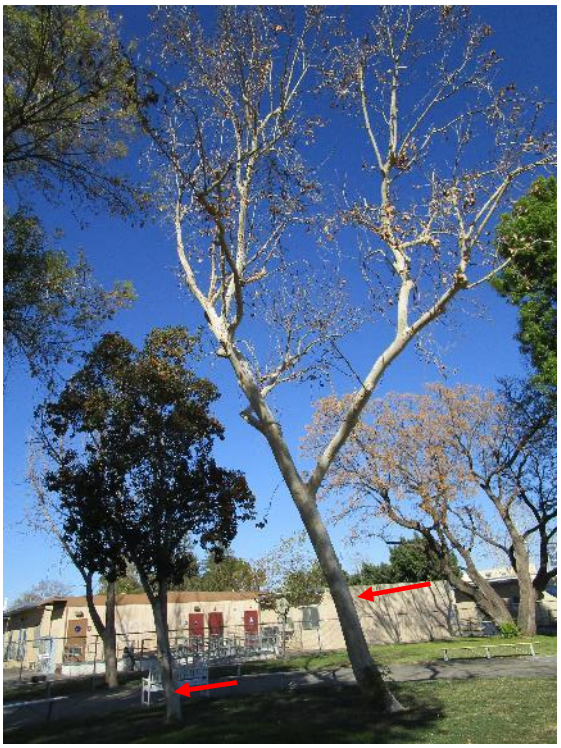
Trees #109(R) & 110(L)



Tree #111

Tree #112

Tree #113



Trees #114(R) & 115(L)

Tree #116

Trees #117(R) & 118(L)

Trees #119(R) & 120(L)

Tree #121

Tree #122

Tree #123

Tree #124

Tree #125

Tree #126

Tree #127

Tree #128

Tree #129

Tree #130

Trees #131(L) & 132(R)

HEALTH AND STRUCTURE GRADE DEFINITIONS

Health and structure ratings of the trees are based on the archetype tree of the same species through a subjective evaluation of its physiological health, aesthetic quality, and structural integrity.

Overall physiological condition (health) and structural condition were rated A-F:

Health

a. Outstanding – Exceptional trees of good growth form and vigor for their age class; exhibiting very good to excellent health as evidenced by normal to exceptional shoot growth during current season, good bud development and leaf color, lack of leaf, twig or branch dieback throughout the crown, and the absence of decay, bleeding, or cankers. Common leaf and/or twig pests may be noted at very minor levels.
b. Above average – Good to very good trees that exhibit minor necrotic or physiological symptoms of stress and/or disease; shoot growth is less than reasonably expected, leaf color is less than optimal in some areas, the crown may be thinning, minor levels of leaf, twig, and branch dieback may be present, and minor areas of decay, bleeding, or cankers may be manifesting. Minor amounts of epicormic growth may be present. Minor amounts of fire damage or mechanical damage may be present. Still healthy, but with moderately diminished vigor and vitality. No significant decline noted.
c. Average – Average, moderately good trees whose growth habit and physiological or fire-induced symptoms indicate an equal chance to either decline or continue with good health into the near future. Most of these trees exhibit moderate to significant small deadwood in outer crown areas, decreased shoot growth and diminished leaf color and mass. Some stem and branch dieback is usually present and epicormic growth may be moderate to extensive. Cavities, pockets of decay, relatively significant fire damage, bark exfoliation, or cracks may be present. Moderate to significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it is expected to negatively impact the lifespan of the tree. Tree may be in early decline.
d. Below Average/Poor - trees whose growth habit and physiological or fire-induced symptoms indicate significant, irreversible decline. Most of these trees exhibit significant dieback of wood in the crown, possibly accompanied by significant epicormic sprouting. Shoot growth and leaf color and mass is either significantly diminished or nonexistent throughout the crown. Cavities, pockets of decay, significant fire damage, bark exfoliation, and/or cracks may be present. Significant amounts of insect or disease symptoms may be present; the tree may be shaded or crowded in such a way that it has negatively impacted the lifespan of the tree. Tree appears to be in irreversible decline.
e. Dead or in spiral of decline – this tree exhibits very little to no signs of life.

Structure

A) Outstanding – Trees with outstanding structure for their species exhibit trunk and branch arrangement and orientation that result in a sturdy form or architecture that resists failure under normal circumstances. The spacing, orientation, and size of the branches relative to the trunk are quintessential for the species and free from defects. No outward sign of decay or pathological disease is present. Some trees exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, which would preclude them from achieving an “A” grade.
B) Above average - Trees with good to very good structure for their species. They exhibit trunk and branch arrangement and orientation that result in a relatively sturdy form or architecture that resists failure under normal circumstances, but may have some mechanical damage, over-pruning, or other minor structural

defects. The spacing, orientation, and size of the branches relative to the trunk are still in the normal range for the species, but they exhibit a minor degree of defects. Minor, sub-critical levels of decay or pathological disease may be present, but the degree of damage is not yet structurally significant. Trees that exhibit naturally inherent branching defects, like multiple, narrow points of attachment from one point on the trunk, would generally fall in to this category. A small percentage of the canopy may be shaded or crowded, but not in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree.

C) Average - Trees with moderately good structure for their species, but with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a less than sturdy form or architecture, which reduces their resistance to failure under normal circumstances. Moderate levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of some of the branches relative to the trunk are not in the normal range for the species. Moderate to significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A moderate to significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be moderately elevated.

D) Well Below Average/Poor - Trees poor structure for their species and with obvious defects. They exhibit trunk and branch arrangement and orientation that result in a significantly less than sturdy form or architecture, significantly reducing their resistance to failure under normal circumstances. Significant levels of mechanical damage, over-pruning, or other structural defects may be present. The spacing, orientation, and size of many of the branches relative to the trunk are not in the normal range for the species. Significant levels of decay or pathological disease may be present that increase the likelihood of structural instability. Influences such as an excessive trunk lean, slope erosion, root pruning, or other growth-inhibiting factors may be present. A significant percentage of the canopy may be shaded or crowded in such a way that it is expected to negatively impact the structural integrity or lifespan of the tree. Risk of full or partial failure in the near future appears to be advanced.

E) Severely Compromised – trees with very poor structure and numerous or severe defects due to growing conditions, historical or recent pruning, mechanical damage, history of limb or trunk failures, advanced and irreparable decay, disease, or severe fire damage. Trees with this rating are in severe, irreparable decline, or are barely alive. Risk of full or partial failures in the near future may be severe.

ARBORIST DISCLOSURE STATEMENT

Arborists are tree specialists who use their education, knowledge, training and experience to examine trees, recommend measures to enhance the beauty and health of trees, and attempt to reduce the risk of living near trees. Clients may choose to accept or disregard the recommendations of the arborist, or to seek additional advice.

Arborists cannot detect every condition that could possibly lead to the structural failure of a tree. Trees are living organisms that fail in ways we do not fully understand. Conditions are often hidden within trees and below ground. Arborists cannot guarantee that a tree will be healthy or safe under all circumstances, or for a specified period of time. Likewise, remedial treatments, like any medicine, cannot be guaranteed.

Treatment, pruning and removal of trees may involve considerations beyond the scope of the arborist's services such as property boundaries, property ownership, site lines, disputes between neighbors, and other issues. Arborists cannot take such considerations into account unless complete and accurate information is disclosed to the arborist. An arborist should then be expected to reasonably rely upon the completeness and accuracy of the information provided.

Trees contribute greatly to our enjoyment and appreciation of life. Nonetheless, they are subject to the laws of gravity and physiological decline. Therefore, neither arborists nor tree owners can be reasonably expected to warrant unfailing predictability or elimination of risk.

Trees can be managed, but they cannot be controlled. To live near trees is to accept some degree of risk. The only way to eliminate all risk associated with trees is to eliminate all trees.

Risk assessments were neither requested nor performed on any of the trees for this project.

CY CARLBERG
CARLBERG ASSOCIATES
828 Fifth Street, Suite 3 • Santa Monica • California • 90403
cy@cycarlberg.com • o: 310.451.4804 • www.cycarlberg.com

Education
B.S., Landscape Architecture, California State Polytechnic University, Pomona, 1985
Graduate, Arboricultural Consulting Academy, American Society of Consulting Arborists, Chicago, Illinois, February 2002
Graduate, Municipal Forestry Institute, Lied, Nebraska, 2012

Experience
Consulting Arborist, Carlberg Associates, 1998-present
Manager of Grounds Services, California Institute of Technology, Pasadena, 1992-1998
Director of Grounds, Scripps College, Claremont, 1988-1992

Certificates
Certified Arborist (#WE-0575A), International Society of Arboriculture, 1990
Registered Consulting Arborist (#405), American Society of Consulting Arborists, 2002
Certified Urban Forester (#013), California Urban Forests Council, 2004
Qualified Tree Risk Assessor, International Society of Arboriculture, 2011

AREAS OF EXPERTISE

Ms. Carlberg is experienced in the following areas of tree management and preservation:

- Tree health and risk assessment
- Master Planning
- Historic landscape assessments, preservation plans, reports
- Tree inventories and reports to satisfy jurisdictional requirements
- Expert Testimony
- Post-fire assessment, valuation, and mitigation for trees and native plant communities
- Value assessments for native and non-native trees
- Pest and disease identification
- Guidelines for oak preservation
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Tree and landscape resource mapping – GPS, GIS, and AutoCAD
- Planning Commission, City Council, and community meetings representation

PREVIOUS CONSULTING EXPERIENCE

Ms. Carlberg has overseen residential and commercial construction projects to prevent damage to protected and specimen trees. She has thirty-five years of experience in arboriculture and horticulture and has performed tree health evaluation, value and risk assessment, and expert testimony for private clients, government agencies, cities, school districts, and colleges. Representative clients include:

The Huntington Library and Botanical Gardens
The Los Angeles Zoo and Botanical Gardens
The Rose Bowl and Brookside Golf Course, Pasadena
Walt Disney Concert Hall and Gardens
The Art Center College of Design, Pasadena
Pepperdine University
Loyola Marymount University
The Claremont Colleges (Pomona, Scripps, CMC, Harvey Mudd, Claremont Graduate University, Pitzer, Claremont University Center)
Quinn, Emanuel, Urquhart and Sullivan (attorneys at law)
Getty Trust – Eames House
Historic Resources Group
Mia Lehrer + Associates
The City of Claremont
The City of Beverly Hills
The City of Pasadena
The City of Los Angeles
The City of Santa Monica
Santa Monica/Malibu Unified School District
San Diego Gas & Electric
Los Angeles Department of Water and Power
Rancho Santa Ana Botanic Garden, Claremont
Latham & Watkins, LLP (attorneys at law)
Architectural Resources Group
AHBE Landscape Architects
Moule and Polyzoides, Architects and Urbanists

AFFILIATIONS

Ms. Carlberg serves with the following national, state, and community professional organizations:

- California Urban Forests Council, Board Member, 1995-2006
- Street Tree Seminar, Past President, 2000-present
- American Society of Consulting Arborists Academy, Faculty Member, 2003-2005; 2014
- American Society of Consulting Arborists, Board of Directors, 2013-2015
- Member, Los Angeles Oak Woodland Habitat Conservation Strategic Alliance, 2010-present

JAMES SANCHEZ

CARLBERG ASSOCIATES
828 5th Street, Suite 3, Santa Monica, California 90403
james@cycarlberg.com • m: 310.924.2246 • www.cycarlberg.com

Education
Graduate, Environmental Horticulture Program, El Camino College, Torrance, California, 2002
Graduate, Hawthorne High School, Hawthorne, California, 1995

Experience
Staff Arborist, Carlberg Associates, 2015-present
Community Forester, Tree Musketeers, 2010-2014
Interior Plant Technician, Reliable Plant Service, 2008-2009
Exterior Plant Technician, Inner Gardens, 2006-2007
Exterior Plant Lead, Rolling Greens Nursery, 2005-2006
Nursery Foremen, Big Seven Nursery, 2001-2003

Certificates
Certified Arborist (#WE-9883A), International Society of Arboriculture, 2012
Environmental Horticulture Certificate, El Camino College, 2002

AREAS OF EXPERTISE

Mr. Sanchez is experienced in the following areas of tree management and preservation:

- Tree health assessment
- Tree inventories and reports to satisfy jurisdictional requirements
- Pest and disease identification
- Selection of appropriate tree species
- Planting, pruning, and maintenance specifications
- Working with community and city leaders in large tree planting programs

PREVIOUS CONSULTING EXPERIENCE

Mr. Sanchez has performed tree inventories, health evaluations, and impact analyses for private developers, architects, engineers, and homeowners. He has over 14 years of experience in arboriculture and is trained in environmental horticulture. Representative clients include:

City of Pasadena
City of South Gate
Metropolitan Transit Authority
E & S Ring, Inc.
Hollywood Forever Cemetery
Archdiocese of Los Angeles
City of Signal Hill
Kovac Architects
City of Torrance
Ojai Valley Community Hospital
The Kibo Group
Monte Vista Grove Homes
Google Venice
John Anson Ford Theater
The Village Green, Baldwin Hills
Camp Munz/Menenhall
Hotel Figueroa
California State University, Long Beach
Pacific Charter School
Mill Creek Development
Los Angeles Unified School District
City of South Gate
Claremont Golf Course
The New Home Company
William Carey University
City of Inglewood
Universal Hilton
Gensler Architects
Marmol Radziner, Architects
Rose Bowl Stadium
Aurora/Signature Health Services
Colfax Charter Elementary School
Highpointe Communities
Snapchat
Los Angeles Football Club
Monte Cedro Senior Living
Southern California Edison
Howard Hughes Center
Katella High School
Square One Homes
EPT Landscape Architecture
Tim Barber, Ltd., Architects

AFFILIATIONS

Mr. Sanchez serves with the following national professional organizations:

- Member, International Society of Arboriculture, Western Chapter

INSERT FULL-SIZE COPY OF TREE LOCATION EXHIBIT (11 SHEETS)

APPENDIX C

Historical Resources Evaluation Report

Reseda High School

Historical Resources Evaluation Report

prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Contact: Gwenn Godek
Contract Professional/CEQA Advisor

prepared by
Rincon Consultants, Inc.
250 East 1st Street, Suite 301
Los Angeles, California 90012

June 2018

Rincon Consultants, Inc.
Environmental Scientists Planners Engineers
www.rinconconsultants.com

Please cite this report as follows:

Los Angeles Unified School District. 2018. *Reseda High School: Historical Resources Evaluation Report*. Prepared by Rincon Consultants Los Angeles, CA.

Table of Contents

Table of Contents i
1 Executive Summary 1
2 Introduction 3
2.1 Regulatory Framework 6
2.2 Methods 8
2.3 Previous Historical Resource Surveys 9
3 Campus Site Description and History 11
3.1 Overview Description 11
4 Historic Overview 27
4.1 Focused Neighborhood History 27
5 Associated Design Professional Biographies 31
5.1 Allison & Rible 31
6 Significance Evaluation 33
6.1 Designation Criteria A/1/1 36
6.2 Designation Criteria B/2/2 36
6.3 Designation Criteria C/3/3 37
7 Conclusion 39
8 Bibliography 41

Tables

Table 1 Reseda High School Campus Buildings 14

Figures

Figure 1 Vicinity Map 4
Figure 2 Location Map 5
Figure 3 Campus Map 13
Figure 4 Primary Entrance, with Academic Building on Left and Library Building on Right 15
Figure 5 Central Courtyard, with Academic Building on Left and Science Building on Right 16
Figure 6 Secondary Courtyard, with Science Building on Left and Art Building on Right 16
Figure 7 Assembly Buildling; West and South Elevations 17
Figure 8 Boy's Gymnasium Building, North and West Elevations 17

Figure 9 Girl's Gymnasium Building; West and South Elevations 18
Figure 10 Utility Building; North and East Elevations.....18
Figure 11 Classroom Building on Left and Industrial Arts Building #1 on Right; South Elevations ..19
Figure 12 Classroom Building with Homemaking Building on Left and AA-2639 on Right; West Elevations 19
Figure 13 1947 Aerial Photograph Depicting Site of Reseda High School (at center of frame) and Environs 20
Figure 14 1952 Aerial Photograph Depicting Site of Reseda High School (at center of frame) and Environs 21
Figure 15 Allison & Rible, Architects (1953) Detail of Key Plot Plan of Reseda High School.....23
Figure 16 Circa-1955 Aerial Photograph of Reseda High School.....24
Figure 17 1955 Plot Plan, Reseda High School, Revised in 1985 25

1 Executive Summary

Rincon Consultants, Inc. (Rincon) was retained by the Los Angeles Unified School District (LAUSD) to complete a historical resources evaluation of the Reseda High School campus (subject campus), located at 18230 Kittridge Street, Los Angeles, California. The subject campus is located in the Reseda neighborhood of the San Fernando Valley. Initially constructed between 1954 and 1955, the campus spans an irregular-shaped parcel of approximately 30 acres that contains 55 buildings and structures, including 24 permanent buildings and structures and 31 portable buildings.

This evaluation was prepared to inform future planning efforts and to facilitate compliance with LAUSD's cultural resource policies and the California Environmental Quality Act (CEQA), which requires lead agencies to consider the impacts of proposed projects on historical resources. All work completed as part of the current effort was conducted in accordance with the requirements of CEQA and applicable local regulations. The current study included background research, an intensive-level field survey, and preparation of this Historical Resources Evaluation Report.

Based on the current study, the built improvements at Reseda High School are recommended as ineligible for listing in the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), and for local designation under any applicable criteria. The school is one of many high schools developed in response to rapid growth of the San Fernando Valley in the years after World War II, and while the campus has not been extensively altered, it does not clearly embody the characteristics of a postwar modern functionalist school campus per the registration requirements of *Los Angeles Unified School District Historic Context Statement, 1870 to 1969*.[1] Specifically, Reseda High School does not exhibit many of the character-defining features required of eligible campuses, including easily identifiable indoor-outdoor spaces, a unified campus plan with buildings oriented toward courtyards, or buildings that display a distinctively Modernist design idiom. As a result, the buildings and the overall campus of Reseda High School do not appear eligible for federal, state, or local designation under any applicable criteria. Therefore, Reseda High School is not considered a historical resource for the purposes of CEQA.

Rincon Senior Architectural Historian Steven Treffers served as the project lead, with oversight and quality assurance/quality control provided by Architectural History Program Manager Shannon Carmack. Additional assistance was provided by Rincon architectural historians Rachel Perzel and Susan Zamudio-Gurrola. These individuals meet and exceed the Secretary of the Interior's Professional Qualifications Standards for Architectural History and History.

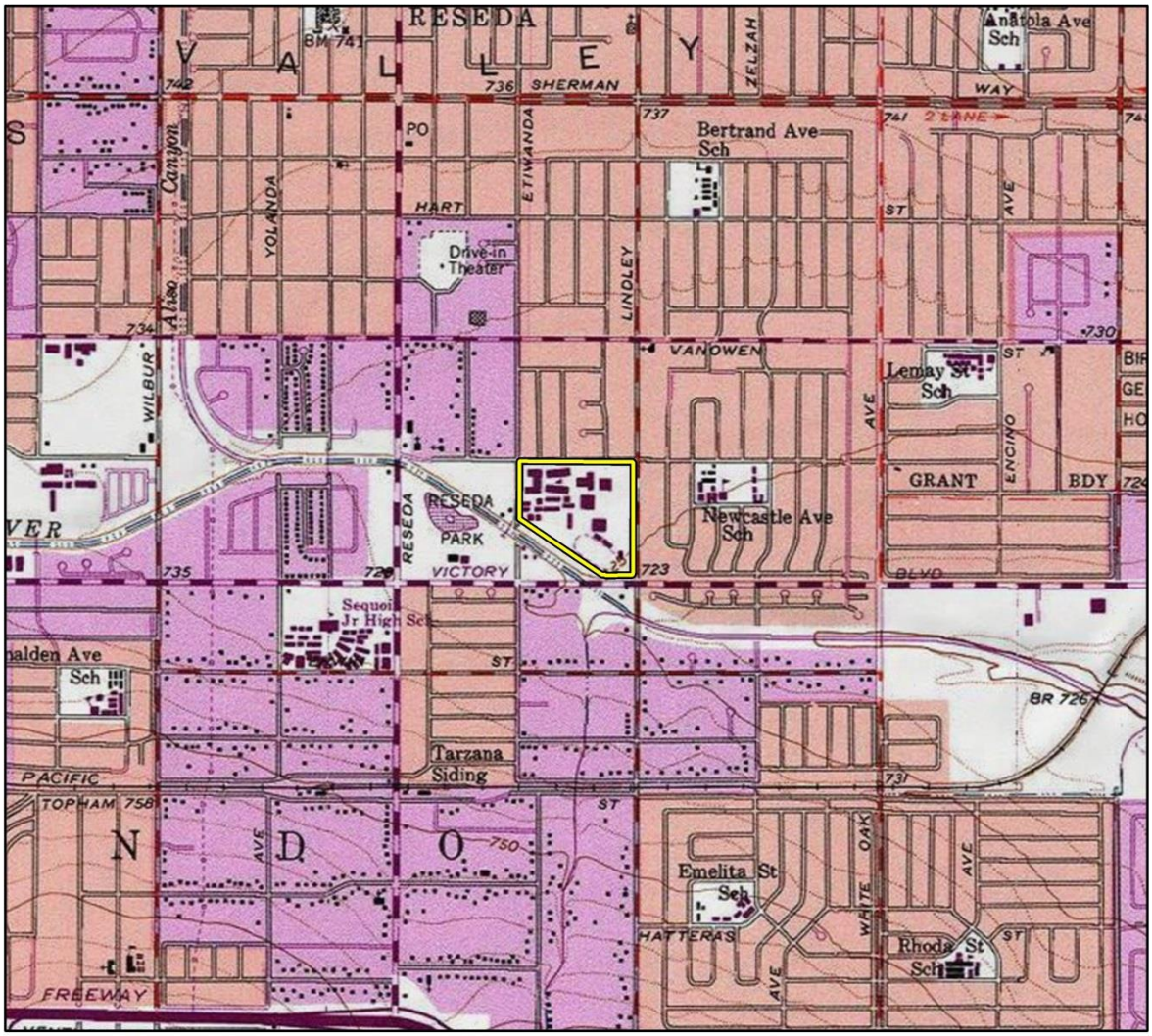
[1] Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (Los Angeles Unified School District Office of Environmental Health and Safety, March 2014).

This page left intentionally blank.

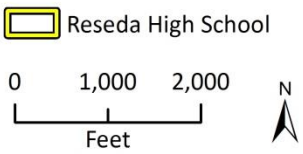
2 Introduction

Reseda High School is located on a generally level site in the Reseda neighborhood, north of U.S. Highway 101 and east of Interstate 405 (Figure 1). The roughly trapezoidal parcel is approximately 30 acres and is bound by Kittridge Street to the north, Etiwanda Avenue to the west, Lindley Avenue to the east, and the channelized Los Angeles River on the southwest, where it follows a northwest-southeast alignment along the border of the campus. The surrounding area is characterized primarily by single- and multi-family residential properties (Figure 2).

Figure 1 Vicinity Map



Imagery provided by National Geographic Society, ESRI and its licensors © 2017. Canoga Park Quadrangle. T01N R16W S11. The topographic representation depicted in this map may not portray all of the features currently found in the vicinity today and/or features depicted in this map may have changed since the original topographic map was assembled.



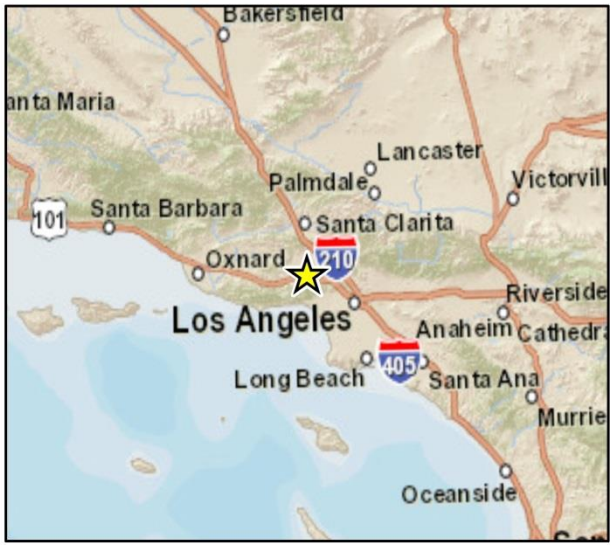


Figure 2 Location Map

Imagery provided by Google and its licensors © 2017.
Additional data provided by LA Unified School District, 2017.

2.1 Regulatory Framework

CEQA requires lead agencies to consider the impacts of proposed projects on historical resources. Under CEQA, historical resources are defined properties listed in, or eligible for listing in, the National Register of Historic Places (NRHP), California Register of Historical Resources (CRHR), or a local register. Eligible resources may include buildings, sites, structures, objects, cultural landscapes, and historic districts. Properties that are listed in the NRHP or found eligible for the NRHP through consensus with the State Office of Historic Preservation are automatically listed in the CRHR. Federal, state, and local designation criteria are presented below.

National Register of Historic Places

The NRHP was established by the National Historic Preservation Act (NHPA) of 1966 as "an authoritative guide to be used by federal, state, and local governments, private groups and citizens to identify the nation's cultural resources and to indicate what properties should be considered for protection from destruction or impairment."[2] The NRHP recognizes properties that are significant at the national, state, and local levels. To be eligible for listing in the NRHP, a resource must be significant in American history, architecture, archaeology, engineering, or culture. A property is eligible for the NRHP if it is significant under one or more of the following criteria:

- **Criterion A.** It is associated with events that have made a significant contribution to the broad patterns of our history.
- **Criterion B.** It is associated with the lives of persons who are significant in our past.
- **Criterion C.** It embodies the distinctive characteristics of a type, period, or method of construction, or represents the work of a master, or possesses high artistic values, or represents a significant and distinguishable entity whose components may lack individual distinction.
- **Criterion D.** It has yielded, or may be likely to yield, information important in prehistory or history.

In addition to meeting at least one of the above designation criteria, resources must also retain integrity, or enough of their historic character or appearance, to be "recognizable as historical resources and to convey the reasons for their significance."[3] The National Park Service recognizes seven aspects or qualities that, considered together, define historic integrity. To retain integrity, a property must possess several, if not all, of these seven qualities, defined as follows:

1. **Location.** The place where the historic property was constructed or the place where the historic event occurred
2. **Design.** The combination of elements that create the form, plan, space, structure, and style of a property
3. **Setting.** The physical environment of a historic property
4. **Materials.** The physical elements combined or deposited during a particular period of time and in a particular pattern or configuration to form a historic property

[2] Code of Federal Regulations 36, Code of Federal Regulations 60.2.

[3] California Office of Historic Preservation, "California Register and National Register: A Comparison (for Purposes of Determining Eligibility for the California Register)," Technical Assistance Series No. 6. (Sacramento, CA, 14 March 2006).

5. **Workmanship.** The physical evidence of the crafts of a particular culture or people during any given period in history or prehistory
6. **Feeling.** A property's expression of the aesthetic or historic sense of a particular period of time
7. **Association.** The direct link between an important historic event or person and a historic property[4]

California Register of Historical Resources

Created in 1992 and implemented in 1998, the CRHR is "an authoritative guide in California to be used by state and local agencies, private groups, and citizens to identify the state's historical resources and to indicate what properties are to be protected, to the extent prudent and feasible, from substantial adverse change."[5] Certain properties, including those listed in or formally determined eligible for listing in the NRHP and California Historical Landmarks numbered 770 and higher, are automatically included in the CRHR. Other properties recognized under the California Points of Historical Interest program, identified as significant in historical resources surveys, or designated by local landmarks programs may be nominated for inclusion in the CRHR. According to PRC Section 5024.1(c), a resource, either an individual property or a contributor to a historic district, may be listed in the CRHR if the State Historical Resources Commission determines that it meets one or more of the following criteria, which are modeled on NRHP criteria:

- **Criterion 1.** It is associated with events that have made a significant contribution to the broad patterns of California's history and cultural heritage.
- **Criterion 2.** It is associated with the lives of persons important in our past.
- **Criterion 3.** It embodies the distinctive characteristics of a type, period, region, or method of installation, or represents the work of an important creative individual, or possesses high artistic values.
- **Criterion 4.** It has yielded or may be likely to yield information important in prehistory or history.

It is possible that a resource that does not possess sufficient integrity for NRHP listing may still be eligible for the CRHR. Furthermore, while typically NRHP eligibility requires a property to be at least 50 years of age, there is no age requirement for listing in the CRHR. Rather, regulations specify that enough time must have passed for a property to be evaluated within its historic context.

Los Angeles Historic-Cultural Monuments

Local landmarks in the city of Los Angeles are known as Historic-Cultural Monuments and are under the aegis of the Los Angeles Planning Department, Office of Historic Resources. A Historic Cultural Monument is defined in the Cultural Heritage Ordinance as follows:

> Historic-Cultural Monument (Monument) is any site (including significant trees or other plant life located on the site), building or structure of particular historic or cultural significance to the City of Los Angeles, including historic structures or sites in which the broad cultural, economic or social history of the nation, State or community is reflected or exemplified; or which is identified

[4] U.S. Department of the Interior, National Park Service. "How to Apply the National Register Criteria for Evaluation, "*National Register Bulletin* No. 15 (Washington D.C., 2002).

[5] Public Resources Code, Sections 21083.2 and 21084.1.

with historic personages or with important events in the main currents of national, State or local history; or which embodies the distinguishing characteristics of an architectural type specimen, inherently valuable for a study of a period, style or method of construction; or a notable work of a master builder, designer, or architect whose individual genius influenced his or her age.[6]

LAUSD Historic Context Statement, 1870 to 1969

In addition to using all applicable criteria of significance, this evaluation utilized the methodology and framework for evaluations described in the 2014 *LAUSD Historic Context Statement*. Adopted by the LAUSD Board of Education, the *LAUSD Historic Context Statement* offers a consistent, standard approach for evaluating schools and campuses throughout the district. The document utilizes the NRHP Multiple Property Documentation (MPD) format, which provides a comparative, context-driven framework for evaluating related properties. As discussed in that document, "the MPD approach defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations."[7]

2.2 Methods

This historical resources evaluation was completed in accordance with recognized professional standards, following the Secretary of the Interior's Standards for Preservation Planning, Identification, Evaluation and Registration; California Office of Historic Preservation; and National Park Service professional standards and guidelines. Applicable national, state, and local level criteria were considered, as were the context-driven methods and framework used in *LAUSD Historic Context Statement, 1869-1970*, and other applicable historic context statements, including SurveyLA, the citywide historic resources survey conducted by the Los Angeles Office of Historic Resources.[8]

Efforts were made to identify previous historical resource evaluations of the subject campus and other related LAUSD schools. This included a records search of the California Historical Resources Information System, conducted at the South Central Coastal Information Center at California State University, Fullerton in June 2017. The California Historical Resources Information System search reviewed the combined listings of the NRHP, CRHR, California State Historical Landmarks, California Points of Historical Interest, and California Historic Resources Inventory. In addition, the findings of the following surveys were reviewed:

- Post-1994 Northridge Earthquake Historical Resources Surveys: These surveys were conducted for the Federal Emergency Management Agency in support of compliance with Section 106 of the National Preservation Act and recorded 71 LAUSD campuses.

[6] Los Angeles Municipal Code, Section 22.171.7, added by Ordinance No. 178,402, Effective 4-2-07

[7] Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969* (Los Angeles Unified School District Office of Environmental Health and Safety, March 2014).

[8] Ibid. As part of SurveyLA, the Los Angeles Department of City Planning Office of Historic Resources has been developing a citywide historic context statement that provides a framework for identifying and evaluating the city's historic resources: see Los Angeles Department of City Planning Office of Historic Resources, "SurveyLA, Historic Context," https://preservation.lacity.org/historic-context (accessed 2 October 2017).

- Phase 1 and 2 Getty Surveys: These surveys were conducted in two multi-year phases between 2001 and 2004 and expanded on the post-Northridge Earthquake surveys, covering approximately 410 LAUSD campuses.[9]
- 2014 LAUSD Historic Resources Survey: Completed in 2014, this historic resources survey included 55 LAUSD campuses that, at the time of survey, were over 45 years of age. Of these, 14 were found eligible for NRHP and/or CRHR listing.[10]
- SurveyLA: A multi-year, citywide historical resources survey that is currently being finalized by the Los Angeles Office of Historic Resources.

Property-specific research was also conducted to document the construction and alteration history of the subject campus and to explore potential significant associations. A package of historic aerial and topographic maps and Sanborn Fire Insurance Maps for the property was acquired from Environmental Data Resources. Other sources reviewed include the combined collections of ProQuest historical newspapers, historic *Los Angeles Times*, Los Angeles Public Library (including the California Index), University of Southern California Libraries and Special Collections, and the online photographic collection of the Huntington Library and yearbooks at Classmates.com. Rincon staff also reviewed Vault Drawings on file with LAUSD that include architectural plans and drawings detailing the construction and alteration histories of the subject campus and its buildings.

Steven Treffers and Shannon Carmack conducted an intensive-level survey of the subject campus on July 11, 2017. All buildings and structures on the subject campus were photographed and documented in field notes describing character-defining features, materials, and alterations. The survey included the exteriors and interiors of campus buildings.

2.3 Previous Historical Resource Surveys

The subject campus was previously identified by SurveyLA in 2015 as part of the historic resources survey of the Reseda-West Van Nuys Community Plan Area.[11] At that time the campus was recommended as eligible for federal, state, and local designation as a historic district under Criteria A/1/1 and C/3/3, where it was found to provide an excellent example of a post-World War II high school campus, reflecting LAUSD school planning and design concepts along with the increase in facilities that occurred to accommodate post-World War II growth in the San Fernando Valley.

[9] Leslie Heumann, Science Applications International Corporation, "Historic Resources Survey of the Los Angeles Unified School District," (Pasadena, CA, 2002-2004).

[10] Sapphos Environmental, Inc., *Los Angeles Unified School District: Historic Resources Survey Report* (Los Angeles Unified School District Office of Environmental Health and Safety, June 2014).

[11] Los Angeles, City of. 2015. *Reseda-West Van Nuys Community Plan Area.* Survey LA-Historic Resources Survey Report. Department of City Planning. Prepared by Architectural Resources Group, Inc. Pasadena, CA. July 31, 2015.

This page left intentionally blank.

3 Campus Site Description and History

3.1 Overview Description

Reseda High School occupies a roughly trapezoidal, 30-acre parcel in the Reseda neighborhood of Los Angeles. The campus boundaries follow Kittridge Street on the north, Etiwanda Avenue on the west, and Lindley Avenue on the east. The southern boundary parallels Victory Boulevard before tracing the southeast-to-northwest route of the Los Angeles River. Residential development is predominant in the areas directly north, south, and east of the school, and Reseda Lake Park neighbors the campus to the west. Originally constructed in 1955, the campus displays minimal elements of the Mid-Century Modern architectural style. Of the 55 permanent and portable buildings and structures on the campus, 20 date to the school's opening in 1955. new facilities continued to be added until as recently as 2005.

The campus exhibits some elements of a hybrid finger-and-cluster-plan, with the Administrative, Library, Homemaking, Academic, Classroom, and Assembly buildings situated around a landscaped central quadrangle in the northwestern section of the campus. South of this main cluster, the Art, Industrial Arts, and Cafeteria buildings are oriented generally east-west around landscaped courtyards. A paved service road marks the eastern and southern perimeter of this core of campus facilities. Situated along the outside edge of the roadway are the boys' and girls' gymnasia, the Utility Building, and several less substantial permanent and portable classroom buildings. The original core campus buildings share common design elements, including rectangular plans, flat roofs, horizontal components, board-formed concrete and masonry construction, and overhangs sheltering steel casement windows.

A primary campus entrance faces Kittridge Street to the north, allowing access to the grounds at a point just outside the single-story Administrative Building. The one-story Library and Homemaking buildings and two-story Science and Academic buildings extend west and east, respectively, from the Administrative Building, forming a rough H-plan. Breezeways and covered, exterior walkways link most of the campus' core buildings. Breezeway shelters near the main campus entrance are made of recessed concrete, supported by reinforced concrete pillars. Brickwork frames several doorways and forms bands on the lower reaches of many exterior walls, serving as a unifying stylistic motif on many of the school's original buildings.

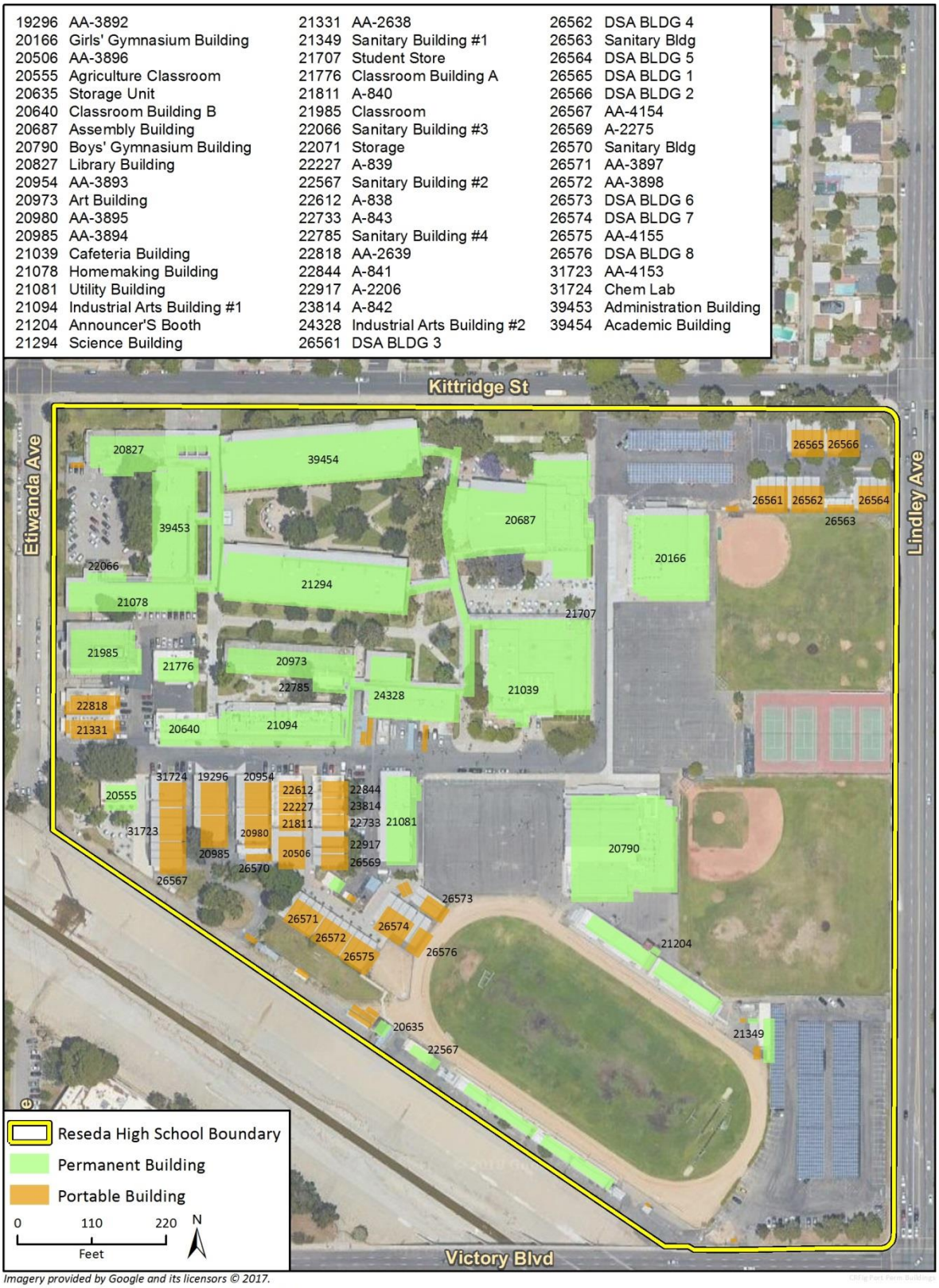
Aside from the school's original buildings, nearly three dozen buildings were added after 1955, most of which are portable. Largely utilitarian in style, these buildings cluster just south of the Homemaking Building and Industrial Arts Building 2 and north and east of the Girls' Gymnasium. Aside from a circa-1970, two-story classroom building, these facilities are all one-story in height. Common design elements among these buildings include stucco- and T1-11-clad exterior walls, covered porches, and aluminum-framed windows. Landscaping in these parts of the campus is minimal.

Landscaping elsewhere on the school grounds is simple but abundant, consisting primarily of lawns and mature planted trees. Building setbacks along Kittridge Street and much of the school's Etiwanda Avenue frontage allow for lawns on the western and northern edges of the campus. The central quadrangle and several smaller courtyards separate the core buildings. These areas include lawns crossed by concrete walkways, planted with mature trees and several varieties of shrub.

Concrete benches line the northern end of the quadrangle, and a semicircular area with picnic tables is located nearby.

Sports fields and courts and parking lots fill most of the easternmost section of the campus, along Lindley Avenue. These include baseball diamonds, clay tennis courts, and basketball courts. A football field and dirt running track, flanked by bleachers, occupy the southeastern corner of the property. Their orientation parallels that of the channelized Los Angeles River, which flows southeasterly along the southwestern edge of the campus. A chain link perimeter fence encloses much of this rear section of the school grounds.

Figure 3 Campus Map



Imagery provided by Google and its licensors © 2017.
Additional data provided by LA Unified School District, 2017.

Table 1 Reseda High School Campus Buildings

No.	Name	Type	Year Built
19296	AA-3892	Portable	1999
20166	Girls' Gymnasium Building	Permanent	1955
20506	AA-3896	Portable	1999
20555	Agricultural Classroom	Permanent	1955
20635	Storage Unit	Permanent	1968
20640	Classroom Building B	Permanent	1955
20687	Assembly Building	Permanent	1955
20790	Boys' Gymnasium Building	Permanent	1955
20827	Library Building	Permanent	1955
20954	AA-3893	Portable	1999
20973	Art Building	Permanent	1955
20980	AA-3895	Portable	1999
20985	AA-3894	Portable	1999
21039	Cafeteria Building	Permanent	1955
21078	Homemaking Building	Permanent	1955
21081	Utility Building	Permanent	1955
21094	Industrial Arts Building #1	Permanent	1955
21204	Announcers Booth	Permanent	1955
21294	Science Building	Permanent	1955
21331	AA-2638	Portable	1970
21349	Sanitary Building #1	Permanent	1955
21707	Student Store	Permanent	1955
21776	Classroom Building A	Permanent	1957
21811	A-840	Portable	1986
21985	Classroom	Permanent	1969
22066	Sanitary Building #3	Permanent	1955
22227	A-839	Portable	1986
22567	Sanitary Building #2	Permanent	1955
22612	A-838	Portable	1986
22733	A-843	Portable	1986
22785	Sanitary Building #4	Permanent	1955
22818	AA-2639	Portable	1970
22844	A-841	Portable	1986
22917	A-2206	Portable	1999
23814	A-842	Portable	1986
24328	Industrial Arts Building #2	Permanent	1955
26561	DSA Building #3	Portable	2003
26562	DSA Building #4	Portable	2003
26563	Sanitary Building	Portable	2003

No.	Name	Type	Year Built
26564	DSA Building# 5	Portable	2003
26565	DSA Building #1	Portable	2003
26566	DSA Building #2	Portable	2003
26567	AA-4154	Portable	2003
26569	A-2275	Portable	2004
26570	Sanitary Building	Portable	2001
26571	AA-3897	Portable	1999
26572	AA-3898	Portable	2003
26573	DSA Building #6	Portable	Unknown
26574	DSA Building #7	Portable	Unknown
26575	AA-4155	Portable	2004
26576	DSA Building 8	Portable	Unknown
31723	AA-4153	Portable	2003
31724	Chem Lab	Portable	Unknown
39453	Administration Building	Permanent	1955
39454	Academic Building	Permanent	1955

Figure 4 Primary Entrance, with Academic Building on Left and Library Building on Right

Figure 5 Central Courtyard, with Academic Building on Left and Science Building on Right

Figure 6 Secondary Courtyard, with Science Building on Left and Art Building on Right

Figure 7 Assembly Buildling; West and South Elevations

Figure 8 **Boy's Gymnasium Building, North and West Elevations**

Figure 9 **Girl**'s Gymnasium Building; West and South Elevations

Figure 10 Utility Building; North and East Elevations

Figure 11 Classroom Building on Left and Industrial Arts Building #1 on Right; South Elevations

Figure 12 Classroom Building with Homemaking Building on Left and AA-2639 on Right; West Elevations

3.2 Site History and Construction Chronology

The site of Reseda High School was farmland from 1928 until 1952. The western half of the property was in use as an orchard, while the eastern side of the parcel included a crop field and a small cluster of buildings in the northeastern corner. As late as 1947, the surrounding properties were also agricultural plots and/or rural homes, though the properties north of the Los Angeles River appear to have been substantially larger than most of those south of the river (Figure 13).[12] A notable exception to the area's predominantly agricultural character was Reseda Park, situated immediately west of the present Reseda high campus. The park opened in 1931, and a subsequent round of improvements took place there between 1932 and 1933, under the direction of Reconstruction Finance Corporation and the Los Angeles County Welfare Department.[13] Between 1947 and 1952, thorough suburban development took place on the former agricultural fields to the immediate north, east, and southwest of the future high school campus (Figure 14).[14]

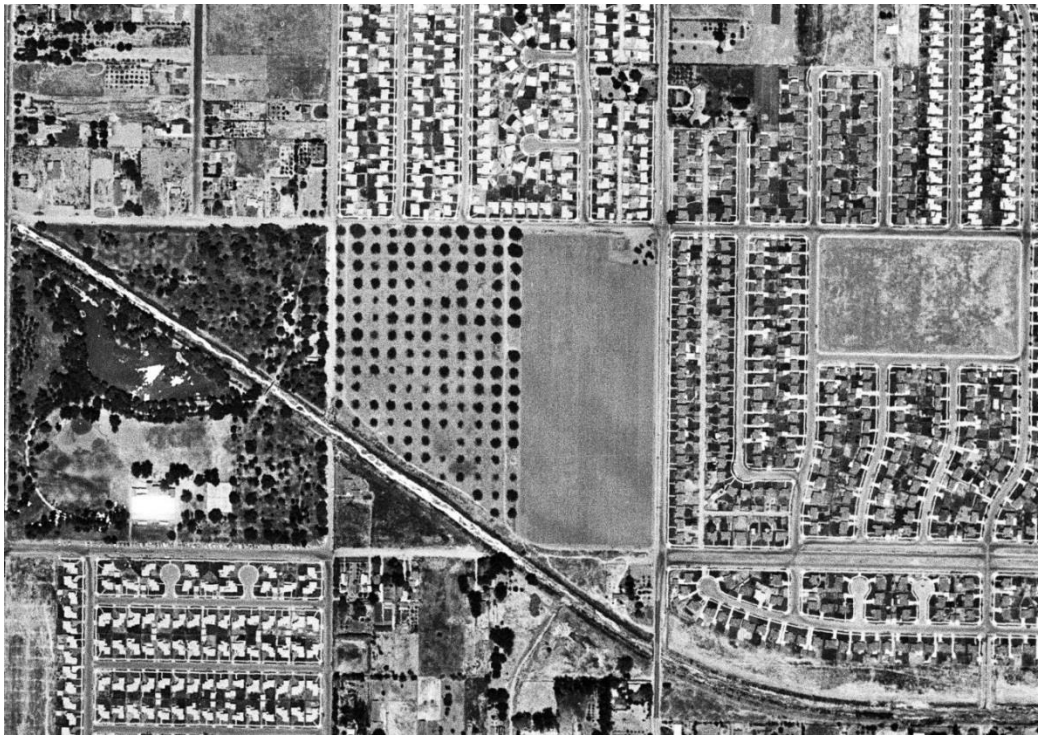
Figure 13 1947 Aerial Photograph Depicting Site of Reseda High School (at center of frame) and Environs

[12] Environmental Data Resources, Inc. (EDR). 2017. EDR Aerial Photo Decade Package Report (photograph dated 1947): Reseda HS. Shelton, CT. June 19.

[13] SurveyLA, Survey Report (p.27); The Living New Deal, "Reseda Park—Reseda, CA, <https://livingnewdeal.org/yprojects/reseda-park-reseda-ca/>.

[14] Environmental Data Resources, Inc., Aerial Photo Decade Package Report (photographs dated 1947 and 1952).

Figure 14 1952 Aerial Photograph Depicting Site of Reseda High School (at center of frame) and Environs



Rapid postwar residential development in the area around the Reseda High School site was just one manifestation of a wider suburban population boom in the Los Angeles region. The fast-growing school-age population that coincided with the construction of these new homes underscored for Los Angeles City School District officials the need for new facilities. As explained in the *LAUSD Historical Context Statement*:

> With the end of World War II, the United States turned its attention to the long-awaited postwar—and post–Great Depression—expansion. The magnitude of the construction and population boom that followed, and its effect on the built environment, have been well documented. A wealth of literature has been devoted to the era's severe housing crisis, for example, and the array of initiatives launched to address it.
>
> Less widely explored in the literature, but equally pressing at the time, was a dire classroom shortage. In 1949–1950, enrollment at U.S. elementary and secondary schools stood at 25.1 million. In one decade, this number expanded by nearly 50 percent to approximately 36 million; by 1971, it reached 46 million. In 1955, in the midst of this boom, "editors at theArchitectural Forum worried, 'every 15 minutes enough babies are born to fill another classroom and we are already 250,000 classrooms behind.' The rising population of young American children made school building, together with housing, the most widely discussed architectural challenge after World War II."
>
> Perhaps in no other state of the union was this growth felt more acutely than in California.The booming birth rate was accompanied by a wave of in-migration, as new settlers were drawn by established employment centers in, among other things, the aerospace industry, which had shifted operations to peacetime production. In Southern California, one region with a particularly strong pull in this regard was the San Fernando Valley. The postwar construction

> boom transformed miles of the San Fernando Valley's agricultural lands into new residential communities, and the population—and demands on schools—expanded accordingly.
>
> School districts around the country struggled to keep up with unprecedented demand and overcrowded classrooms. Adding to the challenges facing school districts was the need not only for new schools, in particular in emerging suburban communities, but also the need to repair and maintain aging school plants, facilities, and equipment.[15]

In response to these pressures, the Board of Education submitted, and voters approved, a series of three school bonds, starting in 1946, to finance both the construction of new facilities and improvements at existing campuses. The 1946 bond issue alone totaled $76 million, financing the construction of 66 new schools. These measures were insufficient, however, and the Board issued two subsequent bonds in 1952 and 1955.[16] According to a 1954 Los Angeles Times article, Reseda High School was scheduled to be the first new school to be built using 1952 bond monies.[17] The Board of Education awarded the school design contract to Los Angeles architectural firm Allison & Rible and structural engineers Ropp and Ropp. General contracting firm, the James I. Barnes Company, won the $3.9-million contract for the school's construction.[18] Officials estimated the campus would initially accommodate 2,500 students, with plans to eventually host another 500 students in temporary buildings.[19]

Postwar Los Angeles schools increasingly differed from their pre-war predecessors in that new schools were often designed to be relatively informal in appearance and functional in their layout. This new ideal is briefly described in the *LAUSD Historical Context Statement* as follows:

> Campus planning and site-specific design also became increasingly important, as new residential areas emerged from former agricultural lands, and school builders and planners had the acreage to plan an entire campus created for new residential communities. In this era, ideas about planning at the scale of the neighborhood included the generous use of outdoor spaces and landscaping and a zoned design that turned the campus inward and separated pedestrians and automobile traffic, for safety and accessibility. Although many variations were proposed, the modern campus plan called for "small separate units connected by arcades or passageways and attractively grouped. This type of arrangement is quite flexible and eliminates much of the institutional atmosphere of the large compact structures."[20]

Allison & Rible designed Reseda High School as a decentralized campus of 20 one- and two-story buildings. These facilities were adjoined by covered walkways or separated by plazas and lawns. The design segregated the school's various uses in purpose-built, single-use facilities.[21] Among others, the campus' original structures included the Administrative, Home Making, Science, Academic, Art, and Industrial Arts buildings (Figure 15 and Figure 16).[22]

---

[15] Sapphos Environmental, Inc., *LAUSD Historic Context Statement (p.* 71).

[16] Sapphos Environmental, Inc., LAUSD Historic Context Statement (p.102).

[17] 1954. *Los Angeles Times*. Work Started on New Reseda High School. March 27.

[18] 1953. *Los Angeles Times*. Extensive High School to Rise on Valley Site. March 29.

[19] 1954. *Los Angeles Times*. Work Started on New Reseda High School. March 27.

[20] Sapphos Environmental, Inc., *LAUSD Historic Context Statement (p.*113).

[21] Sapphos Environmental, Inc., *LAUSD Historic Context Statement (p.*115); Los Angeles Unified School District (LAUSD). 2017. Vault Drawings: 1953-2001 (Plot Plan-1957). From LAUSD Facilities Site Portal: Site 13664: Ascot ES. Los Angeles, CA. July 25, 2017.

[22] Los Angeles Unified School District, Vault Drawings (Plot Plan-1957).

Figure 15 Allison & Rible, Architects (1953) Detail of Key Plot Plan of Reseda High School

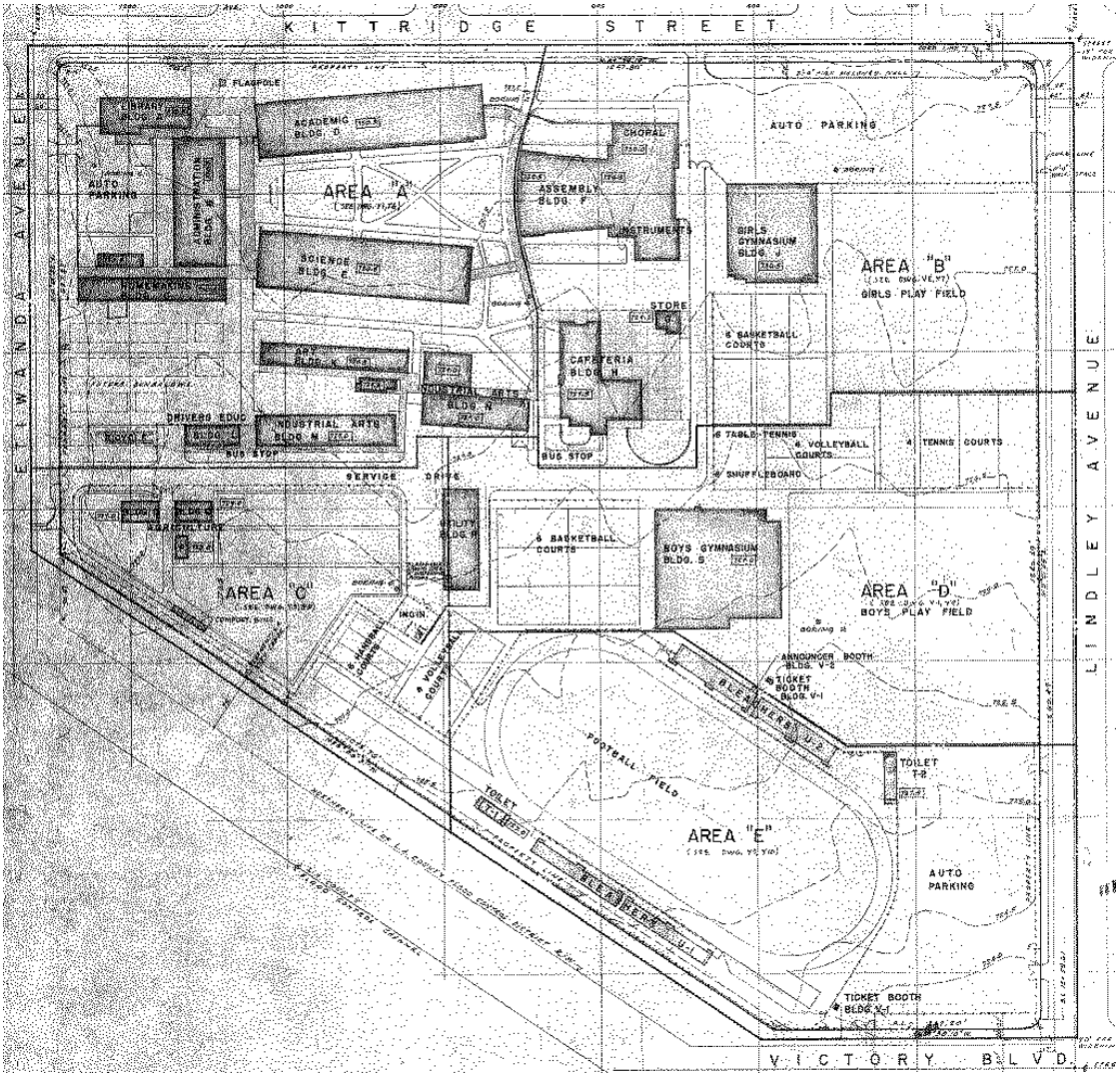


Figure 16 Circa-1955 Aerial Photograph of Reseda High School

Reseda High School opened its doors to students in September 1955, becoming the Los Angeles school system's 500th campus. Its inaugural student body of 1,500 sophomores and juniors congregated primarily in two two-story classroom buildings, designated for academic and scientific courses.[23]

In the six decades after Reseda High School opened, a number of new buildings were erected on the campus, most of which were relatively minor classroom buildings. In the early 1960s, two new classroom buildings were added near the Etiwanda Avenue frontage. These buildings were removed by 1972 and replaced with two portable buildings between 1983 and 1989. Crews erected the two-story Classroom Building T nearby between 1967 and 1977.[24] The identity of the building's architect could not be ascertained for the present study. By 1985, a district plot plan suggests, at least two of these buildings were in use as the Zane Grey Continuation High School.[25] Beginning in the mid- to-late 1980s, a garden area south of Industrial Arts Building 1 gradually gave way to new portable classroom buildings. A cluster of six such buildings appeared between 1983 and 1989, while two

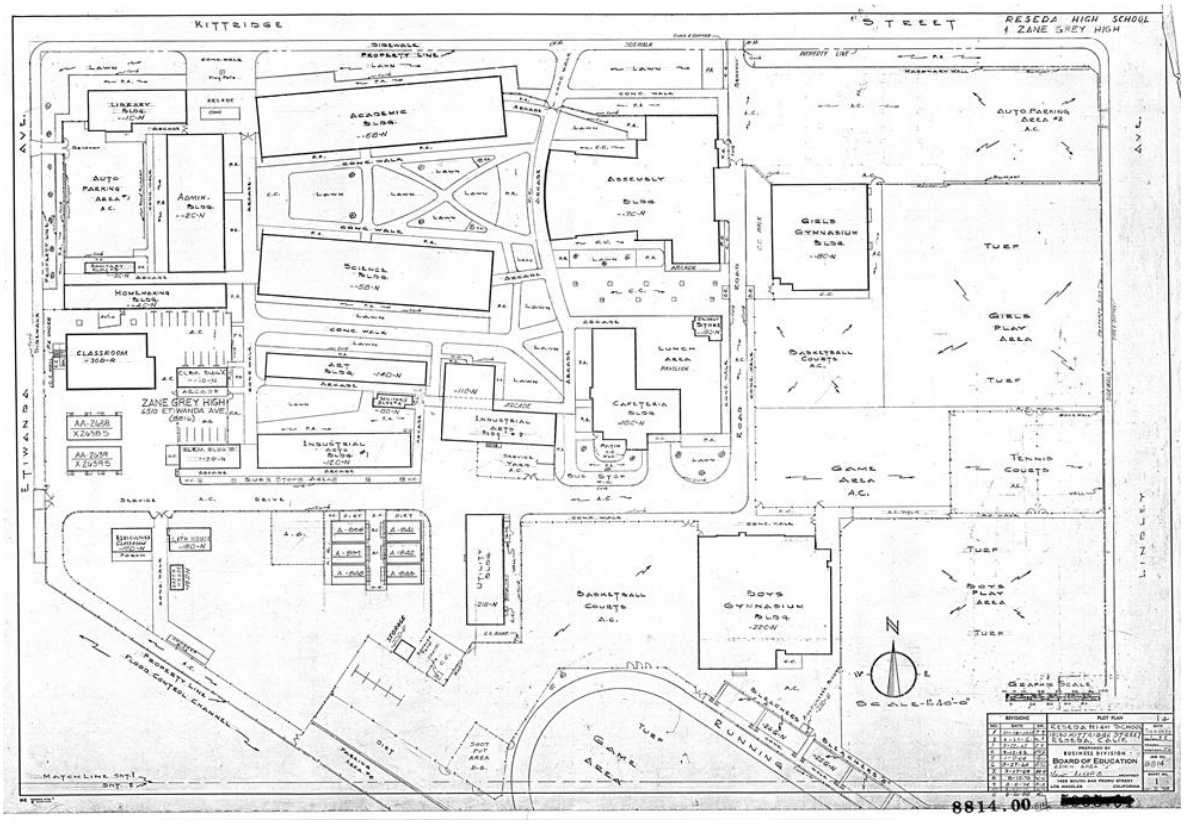
[23] 1955. *Los Angeles Times*. Reseda Will Open New High School Costing $5,000,000. September 5.

[24] Environmental Data Resources, Inc., Aerial Photo Decade Package Report (photographs dated 1964, 1967, 1977, 1983, and 1989).

[25] Los Angeles Unified School District (LAUSD), Vault Drawings (Plot Plan-1959-Revised 1985).

additional buildings came to occupy the remainder of the former garden between 1995 and 2002.[26] In 1994, the district approved plans to repair the earthquake-damaged structural elements of the Boys' and Girls' gymnasia.[27] I

Figure 17 1955 Plot Plan, Reseda High School, Revised in 1985



Aerial photographs to the present suggest that the blocks immediately surrounding Reseda High School have maintained their character in large part as predominantly residential, composed mostly of single-family housing. In the area just northwest of the high school, however, multi-family residential and commercial uses began to be developed sometime between 1952 and 1964 and appears to have been completed by 1977.[28]

[26] Ibid; Environmental Data Resources, Inc., Aerial Photo Decade Package Report (photographs dated 1983, 1989, 1995, and 2002).

[27] Los Angeles Unified School District, Vault Drawings (Earthquake Damage Repair, Work, Reseda High School-1994).

[28] Environmental Data Resources, Inc., Aerial Photo Decade Package Report (photographs dated, 1952, 1964, and 1977).

This page left intentionally blank.

4 Historic Overview

4.1 Focused Neighborhood History

This section presents historic context and background on the development and settlement history of the area surrounding Reseda High School, in Reseda specifically and the San Fernando Valley more generally. The following draws on the LAUSD *Historic Context Statement* and the Los Angeles Office of Historic Resources SurveyLA survey report.

The development of Reseda High School is tied to the exponential growth of the San Fernando Valley in the post-World War II period. As noted in the LAUSD Historic Context Statement:

> The biggest challenge facing the district during the postwar era was keeping up with demand. In Southern California, one of the areas with the most rapid growth was the San Fernando Valley. Between 1930 and 1950, population expansion in the San Fernando Valley was remarkable even by Southern Californian standards. With new settlers drawn by the area's emerging aerospace and entertainment industries, residential expansion had already been under way in the San Fernando Valley by the 1920s and 1930s. By the onset of the Great Depression, for example, the valley had become one of the United States' most important hubs for the aviation industry. Given the valley's concentration of jobs, population doubled from approximately 51,000 in 1930 to 112,000 by 1940.
>
> With the advent of World War II and an infusion of federal funds for defense industry spending, these figures skyrocketed by another 50 percent in five years, increasing from 112,000 in 1940 to 176,000 by 1945. Between 1945 and 1950, a nearly fourfold increase was recorded, with figures climbing to 402,000. Given the magnitude of this expansion, a majority of post-1945 school construction for the district overall took place throughout the San Fernando Valley.[29]

The following excerpt from the 2015 SurveyLA historic resources survey report for the Reseda-West Van Nuys Community Plan Area demonstrates that these trends were experienced throughout the San Fernando Valley during this period:

> Residential development skyrocketed in the Survey Area during the postwar period. Between 1945 and 1950, the San Fernando Valley's population more than doubled to a total of 402,538 residents. Between 1940 and 1950, Reseda grew from a population of 3,725 to 14,810; Van Nuys grew from 28,268 to 79,973. Housing developers could barely keep up with the demand, resulting in the development of new neighborhoods that catered to a variety of income levels, ranging from economical tract houses to communities of custom-designed residences sited on large, half-acre lots. Many were designed in various iterations of the Ranch style, which was immensely popular at the time and … paid homage to the community's rural roots and historically rustic culture. New developments touting names such as Meadowlark Park (designed by notable architect Edward Fickett) and Louise Park Estates (built by notable developer Julian Weinstock) advertised their single-family homes heavily in the *Los Angeles Times*. The work of Fickett and Weinstock in Reseda speaks to the breadth of residential design in the Valley during the postwar period. Prolific and influential, Fickett was known for his Contemporary Ranch and Mid-Century Modern designs for subdivisions all over the Valley: Meadowlark Park was one of

[29] Sapphos Environmental, Inc., *LAUSD Historic Context Statement* (p.101).

many neighborhoods to boast a "modern" aesthetic of dynamic rooflines, floor-to-ceiling windows, and low, ground-hugging forms. Weinstock, an architect as well as a developer, designed and built numerous single-family residences in the Valley during the 1950s; he is best known for his Traditional Ranch neighborhoods, with rustic decorative elements evoking the Valley's idealized rural past.

Rapid residential development was accompanied by the rise of various commercial properties serving the day-to-day needs of the area's steadily increasing population. Reseda's 1920s business district, centered at the intersection of Reseda Boulevard and Sherman Way, saw construction of new one- and two-story commercial buildings, alongside local institutions like the Reseda Theater (designed by S. Charles Lee and completed in 1948). Development in the commercial center development between the 1940s and 1960s greatly changed its appearance, but its low-scale and pedestrian orientation remained. Cheap land and a continuously improving highway system further aided automobile-oriented suburban development. Low-scale strip malls that catered to the automobile were built along many of the community's major boulevards.

Postwar institutional development included the construction of numerous new public school campuses in and around the residential tracts, along with churches and parks. Industrial operations also took root in the thriving area, including Anheuser-Busch's brewery and bottling works opened in 1954 on Roscoe Boulevard. In 1966, the company constructed the 17-acre Busch Gardens amusement park, complete with a bird sanctuary, monorail, boat rides, bumper cars, and free beer with admission. Although the park closed in 1977, the brewery remains in operation.

Built in 1942, the Van Nuys Army Airfield saw growth during the 1950s, including the extension of a runway to accommodate jet fighter, at which time Sherman Way was routed into a tunnel under the runway. In 1957, the property was renamed Van Nuys Airport. It continued to see private, commercial, and military uses for the next 30 years, with military use decreasing and commercial aviation and aerospace operations expanding at the property. Today the Van Nuys Airport is one of the world's busiest non-commercial airports, with hundreds of takeoffs and landings per day.

The survey area's population continued to grow during the 1960s, and residential and commercial development continued apace. As in most other parts of the San Fernando Valley, the new housing subdivisions were not open to all: a long history of racially restrictive housing and ownership practices meant that most of the Valley was "a thoroughly white domain" even through the post-World War II boom. Restrictive covenants had factored into patterns of town building and settlement going back to the Valley's earliest history. While the Supreme Court had outlawed restrictive covenants in 1948, racism in the real estate market persisted through various off-the-record tactics including unofficial "gentleman's agreements," discriminatory lending practices, and brokers' tendency to "steer" minorities to the historically diverse communities of Pacoima and San Fernando. These tactics made it nearly impossible for non-whites to purchase houses in the subdivisions that were being developed in and around Reseda. Deed restrictions and discriminatory practices were not effectively addressed until well into the 1970s.

The survey area continued to develop at a steady pace through the 1960s and into the 1970s, as any remaining open land was acquired by developers and subdivided into housing tracts. Reseda's semi-rural identity slowly faded as the area suburbanized, although traces of it survive in the large lots that remain in several areas of the community. A rare survivor is a portion of the

Jue Joe Ranch, established by Chinese immigrant Jue Joe in West Van Nuys in 1919. This incongruous property sits on the busy thoroughfare of Vanowen Street. New institutional and recreational properties continued to appear in the survey area during this time, including the Los Angeles Jewish Home for the Aged. Established on Victory Boulevard in 1962, this was the second location for the institution, originally founded in 1915 as the Hebrew Home for the Aged. Its location in Reseda reflected the growth of the San Fernando Valley's Jewish population after World War II. Among the new recreational properties in the survey area was the public Van Nuys Golf Course, completed on airport property in 1968. Construction of LAUSD campuses continued, and included unusual facilities like Diane S. Leichman High School, constructed in 1971 as one of the first high school campuses in the district for developmentally disabled students.

The survey area weathered the 1971 San Fernando (Sylmar) earthquake fairly well, but its built environment saw significant damage in the 1994 Northridge earthquake. This temblor, which was actually centered directly beneath Reseda not Northridge, killed 57 people and caused billions of dollars in damage. Many of the survey area's single-family houses were damaged, with the most common damage being fallen chimneys and cracked or shifted porches. As a result, chimney replacements are common throughout Reseda and west Van Nuys.[30]

[30] Los Angeles, City of. 2015. *Reseda-West Van Nuys Community Plan Area.* Survey LA-Historic Resources Survey Report. Department of City Planning. Prepared by Architectural Resources Group, Inc. Pasadena, CA. July 31, 2015.

This page left intentionally blank.

5 Associated Design Professional Biographies

The following section presents biographies for design professionals who are known to be associated with Reseda High School.

5.1 Allison & Rible

Architectural firm Allison & Rible designed the original 1955 Reseda High School campus. The firm dates to 1944, when George B. Allison and Ulysses Rible founded the partnership.[31]

Allison was born in India in 1904 and first studied architecture at Carnegie Institute of Technology, graduating with a bachelor's degree in 1925. Allison earned his master's degree in architecture In 1926 from the University of Pennsylvania. He served as a draftsman in a number of East Coast architecture firms before relocating to Los Angeles. He was named president of the American Institute of Architects (AIA) in 1948.[32] He died in Los Angeles County on June 25, 1977.[33]

Ulysses F. Rible was born in Chicago, Illinois, on November 22, 1904.[34] In 1920, after a series of relocations during his childhood and adolescence, Rible and his family settled in Atascadero in San Luis Obispo County, California.[35] Archival research conducted as part of this study was unable to locate extensive information regarding Rible's education and professional experience prior to the establishment of his partnership with Allison. Rible was named a fellow of the AIA in 1957 and served as president of the state Board of Architectural Examiners from 1946 to 1955 and as a regional director of the AIA.[36] Rible died in San Diego County on January 28, 1982.[37]

Allison & Rible specialized in the design of education buildings, including primary, secondary, and post-secondary schools. Their designs were in styles that typically fell under the broad category of architectural Modernism. Many of their largest commissions were for colleges and universities, including Claremont McKenna Men's College, University of California, Los Angeles (UCLA), Cal Poly San Luis Obispo, and Los Angeles City College. After Rodney Robinson and Raymond Ziegler joined the firm in 1958, the name was formally changed to Allison, Rible, Robinson & Ziegler. Leo Daly Architects eventually acquired the firm in 1969.[38]

[31] Riverside, City of. 2009. City of Riverside Modernism Context Statement (p.20). Riverside, CA. November 3, 2009. https://www.riversideca.gov/historic/pdf/Modernism.pdf.

[32] City of Riverside, Modernism Context Statement (p. 20).

[33] 2015. Michelson, Alan. "George Boggs Allison (Architect)." Pacific Coast Architecture Database (PCAD). Accessed online on May 11. 2018 at <http://pcad.lib.washington.edu/person/407/>.

[34] Online Archive of California. Ulysses Rible Architectural Collection. Accessed online at http://www.oac.cdlib.org/findaid/ark:/13030/c8ns0swh/admin/

[35] 2015. Michelson, Alan. "Ulysses Floyd Rible (Architect)." Pacific Coast Architecture Database (PCAD). Accessed online on May 11. 2018 at <http://pcad.lib.washington.edu/person/406/>.

[36] City of Riverside, Modernism Context Statement (p. 20).

[37] 2015. Michelson, Alan. "Ulysses Floyd Rible (Architect)." Pacific Coast Architecture Database (PCAD). Accessed online on May 11. 2018

[38] City of Riverside, Modernism Context Statement (p.20-21).

Identified works include:

- West Los Angeles Civic Center regional branch library (1956)[39]
- Los Angeles County Arboretum Administration Building (1956)[40]
- 1st Presbyterian Church 2, Wylie Chapel, Hollywood, Los Angeles(1945-1949)
- California Polytechnic State College, San Luis Obispo, Master Plan 1, San Luis Obispo(1949)
- Claremont Men's College, Appleby Hall, Claremont (1947)
- Patio House, Beverly Hills (1947)
- University of California, Los Angeles, Engineering Building, Unit A, Los Angeles (1947-49)[41]
- Rand Corporation, Santa Monica (1962)[42]
- Rible House, Beverly Hills (1948)[43]
- Sequoia Union School, Lemon Cove (1952)[44]
- California Federal Savings & Loan, Granada Hills (1966).[45]

[39] Los Angeles Conservancy. West Los Angeles Civic Center. https://www.laconservancy.org/locations/west-los-angeles-civic-center

[40] Los Angeles Conservancy. Los Angeles County Arboretum. https://www.laconservancy.org/locations/los-angeles-county-arboretum-botanic-garden; Getty Center Research Institute. Allison and Rible, Los Angeles State and County Arboretum, 1957. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE26115.

[41] 2015. Michelson, Alan. George Boggs Allison, Ulysses Floyd Rible (Partners). Pacific Coast Architecture Database (PCAD). Assessed at http://pcad.lib.washington.edu/firm/158/

[42] Getty Center Research Institute. Allison and Rible, Rand Corporation (Santa Monica, Calif.), 1962. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE39795

[43] Getty Center Research Institute. Allison and Rible, Rible House (Beverly Hills, Calif.), 1948. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE31560

[44] 1952. Architect and Engineer.

[45] Los Angeles, City of.2015. *Granada Hills-Knollwood Community Plan Area.* Survey LA-Historic Resources Survey Report. Department of City Planning. Prepared by Historic Resources Group. Pasadena, CA. August, 2015.

6 Significance Evaluation

This evaluation utilized the framework for historic resource assessments described in the *LAUSD Historic Context Statement, 1870-1969*, which follows the NRHP MPD format that "defines themes of significance, eligibility standards, and related property types. Properties sharing a theme of significance are then assessed consistently, in comparison with resources that share similar physical characteristics and historical associations." In addition, this evaluation used the MPD-format historic context statements prepared as part of SurveyLA that similarly identify themes of significance along with associated registration requirements.

In addition to each of the applicable federal, state, and local designation criteria, two evaluation frameworks and their associated eligibility standards and integrity thresholds from the *LAUSD Historic Context Statement* and SurveyLA were identified and applied to this evaluation after careful consideration of all themes and subthemes. Each building on the campus was evaluated for eligibility both individually and as a contributor to any potential historic district.

Evaluation Framework 1

Context:	Public and Private Institutional Development | Education
Theme:	LAUSD | Educating the Baby Boom: the Postwar Modern, Functionalist School Plant, 1945-1969
Property Type:	Institutional/Education
Property Subtypes:	Elementary, Junior High Schools, and High School Buildings and Campuses
Period of Significance:	1945 to 1969
Area of Significance:	Education
Geographic Location:	Citywide, with concentrations in the San Fernando Valley and West Los Angeles
Area of Significance:	A/1

Eligibility Standards

- Clearly embodies the characteristics of a postwar modern functionalist school campus
- Displays a unified, functional site design, with buildings extending across the site and oriented in relation to outdoor spaces (courtyards, patios, outdoor play areas)
- One-story massing for elementary schools; up to two-stories for junior/high schools
- Classrooms, in detailing and plans, clearly express their function, with axial, fingerlike wings, plentiful fenestration, and connections to the outdoors
- Retains most of the associative and character-defining features from the period of significance

Character-Defining Features – Buildings/Structures

- Building plans and site design clearly express their function; classroom wings often exhibit one-story "finger-like" wings, arranged on an axis
- Easily identifiable indoor-outdoor spaces, connections to classrooms through the incorporation of patios, courtyards, and outdoor canopied corridors
- One-story massing, particularly for elementary schools; up to two to three stories for junior and high schools

- Building types and plans expressive of postwar ideals in school design; these can include (1) finger-plan schools (usually in 1940s through 1950s); (2) cluster-plan schools (beginning in 1950s); and (3) variations and combinations of these typologies clearly expressive of the ideals for informality, indoor-outdoor connections, and zoned planning for the site
- Varying elevations might display differentiated window sizes and configurations, in order to tailor interior light to sun patterns and create cross-lit classrooms

Character-Defining Features – Campus/District

- Unified campus design includes most or all of the following attributes: lack of formality and monumentality; low massing (usually one stories for classrooms and up to two stories for auditoriums/multipurpose rooms); strong geometric ordering of buildings and outdoor spaces; decentralized, pavilion-like layout; rational, function driven site design; buildings extend across the site; buildings are oriented to outdoor spaces (courtyards, patios, outdoor areas), purposeful indoor-outdoor integration
- Automobile traffic/drop-off areas separated from campus; linked to interior via extended canopied corridors
- Buildings often turn inward, toward green spaces and courtyards, lawns
- Outdoor corridors, sheltered beneath simple canopies, forming links between the buildings of the campus
- Classrooms often consist of a series of axial, modular units
- An informal, domestic scale for the buildings and campus might be especially evident in elementary schools
- Swaths of patios, terraces, and plantings adjacent to and alternating with buildings
- Generous expanses of windows, including steel- and wood-framed multi-light windows, in awning and hopper casements, clerestories, and fixed panes
- Flat roof or broken-plane roof often used for lighting and acoustical issues
- Modular design, with a rhythmic, asymmetrical but balanced composition
- Usually displays a modern design idiom, usually either regional modernist (with use of native materials such as stone, brick, and wood siding and/or framing), International Style modernist, or, by the early 1960s, Late Modern (more expressive and sculptural)
- Some examples might include some degree of historicist detailing or styles popular in the postwar period (such as American Colonial Revival); these are less common than modernist examples
- May have been designed by a prominent architect of the period
- Often associated with post–World War II suburbanization and growth near major employment centers beyond the city periphery (such as the San Fernando Valley and southwest Los Angeles)
- Often built in residential neighborhoods on large expanses of land, with swaths of land devoted to landscape design and playing fields (in particular for high school campuses)

Integrity Considerations

- Retains most of the essential physical features from the period of significance
- School expansion and new construction over the years, in particular in the postwar period, might have resulted in the addition of in-fill buildings and structures in areas that were originally designed open spaces. Such new additions should not interfere with or serve as a visual

impairment to the designed connections between buildings, in particular classroom wings, and adjacent outdoor patios and spaces.

- Many postwar schools were designed to be easily expandable as enrollment increased; the original site design and building types and plans should be readily discernible. If additional wings were added or the campus extended, the additions should be compatible with and visually subordinate to the original
- Some materials may have been removed or altered
- Modern lighting and fencing of site acceptable
- Should retain integrity of Setting, Materials, Design, Workmanship, Feeling, and Association from its period of significance
- Addition of portable or permanent buildings after the period of significance acceptable as long as original campus design is intact

Evaluation Framework 2

Context: Architecture and Engineering, 1850-1980 | L.A. Modernism, 1919-1980

Theme: Post-War Modernism, 1946-1976 | Mid-Century Modernism, 1945-1970

Property Type: Institutional

Geographic Location: Citywide - known concentrations in Silverlake, Hollywood; Hollywood Hills; Brentwood, and communities largely developed in the post-World War II era, such as those in the South Bay (Playa del Rey, Westchester) and the San Fernando Valley

Area of Significance: C/3

Eligibility Standards

- Exhibits quality design through distinctive features

Character-Defining Features

- Direct expression of the structural system, often wood or steel post and beam
- Flat roofs, at times with, wide overhanging eaves
- Floor-to-ceiling windows, often flush mounted metal framed
- For the National Register, property must possess exceptional importance if less than 50 years of age
- Horizontal Massing
- If Expressionistic: sculptural forms intersecting with geometric volumes
- If Expressionistic: curved, sweeping wall surfaces
- If Expressionistic: dramatic roof forms, such as butterfly, A-frame, hyperbolic paraboloid, folded plate or barrel vault
- Simple, geometric volumes
- Unornamented wall surfaces

Integrity Considerations

- Original garage doors may have been replaced
- Original setting (surrounding buildings, landscape) may not be intact (this applies to individual resources only; buildings associated with corporate or institutional

- Original use may have changed
- Replacement of some windows and doors may be acceptable if the openings have not been resized and original fenestration patterns have not been disrupted
- The addition of decorative elements to originally sparse façades
- The addition of security features such as screen doors and bars at windows
- The painting of surfaces (wood) that might have originally been unpainted

6.1 Designation Criteria A/1/1

Historic District Evaluation: Reseda High School does not appear eligible for federal, state, or local designation as a historic district under Criteria A/1/1. The school is one of numerous high schools developed in response to the rapid growth of the San Fernando Valley in the years after World War II. However, the campus does not appear to have a significant association with the settlement patterns of Reseda. The surrounding area was already being developed with residential neighborhoods when development of the campus began. The main cause of increased settlement in the area was the growing aerospace industry following World War II and the campus' construction was simply a response to the need for additional institutional services in support of the growing population. While the campus has not been extensively altered, it does not clearly embody the characteristics of a postwar modern functionalist school campus per the registration requirements of *Los Angeles Unified School District Historic Context Statement, 1870 to 1969*. Most notably, the campus does not feature a symmetrical site plan, which is characteristic of eligible schools from the post-World War II era. The buildings are neither organized along an axis, as seen in finger-plan school plants, nor grouped as modular standalone units around a central courtyard, as seen in cluster-plan school plants. The school does not feature the strong geometric ordering of buildings and outdoor spaces, or modular design reflecting significant changes in LAUSD school campus development during this era per the *Los Angeles Unified School District Historic Context Statement, 1870 to 1969*.

Individual Resource Evaluation: As described above, the Reseda High School campus is not eligible as a historic district because it does not feature a symmetrical site plan or ordering of buildings, reflecting development patterns for educational institutions during the post-World War II era. Furthermore, none of the individual buildings are distinctively representative of post-World War II school design such that they qualify for individual eligibility under Criteria A/1/1.

6.2 Designation Criteria B/2/2

Historic District and Individual Resource Evaluation: As a public high school, the subject campus and its individual resources are associated with a number of individuals who attended, visited, or taught at the school. However, per the guidance of the National Park Service, properties that are significant for their association with an important person in our past, must illustrate a person's important achievements.[46] Archival research completed as part of this study identified an association between the campus and former teacher and photographer Warren King. In 1955, King established one of the first photography departments among Los Angeles area high schools. His program became a

[46] U.S. Department of the Interior, National Park Service. 2002. *How to Apply the National Register Criteria for Evaluation*(p. 14). National Register Bulletin No. 15. Washington, DC.

prototype for other schools.[47] Although Mr. King's achievement is impressive, it does not appear to have had a significant impact on national, state, or local history to warrant eligibility under Criteria B/2/2. Additional research failed to identify any significant associations with historic personages directly represented by the subject campus. As a result, the subject campus and its individual resources do not appear eligible for designation either individually or as a historic district under Criteria B/2/2.

6.3 Designation Criteria C/3/3

Historic District and Individual Resource Evaluation: Although the Reseda High School campus buildings feature elements of Mid-Century Modern design, their design is somewhat simplistic and lacks the distinction required of significant properties under this theme. Specifically, they do not feature a modular, rhythmic design composition, or direct expression of their structural systems, such as steel post-and-beams. While the buildings have cantilevered breezeways, these features lack architectural distinction or expressive structural qualities, and are purely utilitarian in their design. Furthermore, the buildings do not exhibit the generous expanses of fenestration that help define the concept of indoor-outdoor integration, a common design theme seen in notable examples of Mid-Century Modernism. Windows are relatively limited and do not feature the extensive glazing that characterizes the style. Supplementary research and a review of *Los Angeles Unified School District Historic Context Statement, 1870 to 1969* indicates that numerous LAUSD schools better represent the Mid-Century Modern-style architecture than the subject campus, including Grover Cleveland Charter High School, also located in Reseda and constructed in the 1950s.

As stated previously under the Criteria A/1/1 evaluation, the campus is not a significant example of school campus design principals of the time. It appears to be a combination of the finger plan and cluster plan campus designs of the post-war period but is not a good example of either approach. The main axis of the campus extends south from the primary entrance along Kittridge Street in the north. Multiple axes extend eastward from the main axis, forming landscaped courtyards between the classroom buildings. The campus plan is asymmetrical, contrary to the symmetrical layouts of finger plan schools, and features multiple courtyards differing from the cluster plans arrangement of classrooms around a single central courtyard.

Finally, the campus was designed by the architectural firm of Allison & Rible, which specialized in the design of education buildings, including primary, secondary, and post-secondary schools. Their designs were in styles that typically fell under the broad category of architectural Modernism. Many of their largest commissions were for colleges and universities, including Claremont McKenna Men's College, UCLA, Cal Poly San Luis Obispo, and Los Angeles City College. While the firm may be noteworthy for their designs of educational buildings and campuses, the Reseda High School campus is not one of their more notable works. As a result, Reseda High School and its buildings do not appear eligible for federal, state, and local designation either individually or collectively as a historic district under Criteria C/3/3.

[47] Bonnie Souleles, "His Passion Made Photography a Snap," *Los Angeles Times,* May 22, 1986.

This page left intentionally blank.

7 Conclusion

In summary, the built improvements at Reseda High School are recommended ineligible for federal, state, and local designation under any applicable criteria. The school is one of many high schools developed in response to the rapid growth of the San Fernando Valley in the years after World War II, and while it has not been extensively altered, the campus does not clearly embody the characteristics of a postwar modern functionalist school campus per the registration requirements of the LAUSD Historic Context Statement. Specifically, Reseda High School does not exhibit many of the character-defining features required of eligible campuses, including easily identifiable indoor-outdoor spaces, a unified campus plan with buildings oriented toward courtyards, or buildings that display a distinctively Modernist design idiom. As a result, the buildings and the campus overall of Reseda High School do not appear eligible for federal, state, or local designation under any applicable criteria. Therefore, Reseda High School is not considered a historical resource for the purposes of CEQA.

This page intentionally left blank.

8 Bibliography

Environmental Data Resources, Inc. Reports

Environmental Data Resources, Inc. (EDR). 2017. EDR Historical Topo Map Report: Reseda HS. Shelton, CT. June 19.

Environmental Data Resources, Inc. (EDR). 2017. EDR Aerial Photo Decade Package Report: Reseda HS. Shelton, CT. June 19.

Environmental Data Resources, Inc. (EDR). 2017. EDR City Directory Abstract Report: Reseda HS. Shelton, CT. June 19.

Environmental Data Resources, Inc. (EDR). 2017. EDR Radius Map with GeoCheck Report: Reseda HS. Shelton, CT. June 19.

Environmental Data Resources, Inc. (EDR). 2017. Certified Sanborn Map Report: Reseda HS. Shelton, CT. June 19.

Los Angeles Unified School District Reports/Data

Heumann, Leslie and Anne Doehne. 2002. "Historic Schools of the Los Angeles Unified School District" Powerpoint slideshow. Science Applications International Corporation (SAIC), March 2002. http://www.laschools.org/employee/design/fs-studies-and-reports/download/LAUSD_Presentation_March_2002.pdf?version_id=1895945

Heumann, Leslie. *Historic Resources Survey of the Los Angeles Unified School District*. Science Applications International Corporation, 2002-2004.

Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Context Statement, 1870 to 1969.* Los Angeles Unified School District Office of Environmental Health and Safety, March, 2014.

Sapphos Environmental, Inc. *Los Angeles Unified School District: Historic Resources Survey Report* (Los Angeles Unified School District Office of Environmental Health and Safety, June 2014)

Los Angeles Unified School District (LAUSD). 2017. Vault Drawings: 1953-2001. From LAUSD Facilities Site Portal: Site 13664: Reseda HS. Los Angeles, CA. July 25, 2017.

Newspaper Articles Accessed via Newspapers.com

1954. *Los Angeles Times*. Work Started on New Reseda High School. March 27.

1953. *Los Angeles Times*. Extensive High School to Rise on Valley Site. March 29.

1954. *Los Angeles Times*. Work Started on New Reseda High School. March 27.

1955. *Los Angeles Times*. Reseda Will Open New High School Costing $5,000,000. September 5.

1986. *Los Angeles Times.* His Passion Made Photography a Snap. May 22.

1952. Architect and Engineer.

Scholarly Articles (General Reference)

2012. Baker, Lindsay. A History of School Design and its Indoor Environmental Standards, 1900 to Today. *National Clearinghouse for Educational Facilities*. January. www.JStor.com (accessed July 10, 2017)

1945. Bursch, Charles W. The School Plant as an Educational Instrument. *Review of Educational Research, Vol 15, No. 1*. February. www.JStor.com (accessed July 10, 2017)

1971. Gordon, Ira J. Education in the 1970's. *Peabody Journal of Education, Vol 48, No. 3*. April. www.JStor.com (accessed July 10, 2017)

1953. Knezevich, Atepjen J. Curriculum and the School Plant. *Educational Leadership.* May. www.ascd.org (accessed July 10, 2017)

1966. Nimnicht, Glen P. Windows and School Design. *The Phi Delta Kappan, Vol. 47, No. 6*. February. www.JStor.com (accessed July 5, 2017)

2008. Ogata, Amy F. Building for Learning in Postwar American Elementary Schools. *Journal of the Society of Architectural Historians 67, No. 4.* December. www.academia.edu (accessed July 5, 2017)

1970. Rutrough, James E. Building a New School Plant? The First Important Step Is Educational Planning. *The Clearing House, Vol. 44, No. 6.* February. www.tandfonline.com (accessed July 5, 2017)

1983. Smith, Howard Dwight. Trends in School Architecture and Design. *Review of Educational Research, Vol. 8, No. 4* October. www.JStor.com (accessed July 10, 2017)

National Park Service/California Office of Historic Preservation Guidance

California Office of Historic Preservation, "California Register and National Register: A Comparison (for Purposes of Determining Eligibility for the California Register)," Technical Assistance Series No. 6. (Sacramento, CA, 14 March 2006). Available at: http://ohp.parks.ca.gov/pages/1056/files/06CalReg&NatReg_090606.pdf

U.S. Department of the Interior, National Park Service. 2002. *How to Apply the National Register Criteria for Evaluation*. National Register Bulletin No. 15. Washington, DC.

Survey LA Reports

Los Angeles, City of.2015. *Granada Hills-Knollwood Community Plan Area.* Survey LA-Historic Resources Survey Report. Department of City Planning. Prepared by Historic Resources Group. Pasadena, CA. August, 2015.

Other

Code of Federal Regulations 36, Code of Federal Regulations 60.2.

Online Archive of California. Ulysses Rible Architectural Collection. Accessed online at http://www.oac.cdlib.org/findaid/ark:/13030/c8ns0swh/admin/.

Getty Center Research Institute. Allison and Rible, Rand Corporation (Santa Monica, Calif.), 1962. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE39795

Getty Center Research Institute. Allison and Rible, Rible House (Beverly Hills, Calif.), 1948. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE31560.

Getty Center Research Institute. Allison and Rible, Los Angeles State and County Arboretum, 1957. http://primo.getty.edu/primo_library/libweb/action/dlDisplay.do?vid=GRI&afterPDS=true&institution=01GRI&docId=GETTY_ROSETTAIE26115.

Los Angeles Conservancy. West Los Angeles Civic Center. https://www.laconservancy.org/locations/west-los-angeles-civic-center

Los Angeles Conservancy. Los Angeles County Arboretum. https://www.laconservancy.org/locations/los-angeles-county-arboretum-botanic-garden;

Los Angeles Municipal Code, Section 22.171.7, added by Ordinance No. 178,402, Effective 4-2-07

Public Resources Code, Sections 21083.2 and 21084.1

Riverside, City of. 2009. City of Riverside Modernism Context Statement. Riverside, CA. November 3, 2009. https://www.riversideca.gov/historic/pdf/Modernism.pdf.

The Living New Deal, "Reseda Park—Reseda, CA" Accessed at <https://livingnewdeal.org/projects/reseda-park-reseda-ca/>.

2015. Michelson, Alan. George Boggs Allison, Ulysses Floyd Rible (Partners). Pacific Coast Architecture Database (PCAD). Assessed at http://pcad.lib.washington.edu/firm/158/

2015. Michelson, Alan. "Ulysses Floyd Rible (Architect)." Pacific Coast Architecture Database (PCAD). Accessed online on May 11. 2018.

2015. Michelson, Alan. "George Boggs Allison (Architect)." Pacific Coast Architecture Database (PCAD). Accessed online on May 11. 2018 at <http://pcad.lib.washington.edu/person/407/>.

APPENDIX D

Petroleum Fuel Use Calculations

On-Site Construction Fuel Consumption

Phase	Equipment Type	Units	Hours	Horse Power	Load Factor	Number of Days	Fuel Usage/ HP/hr	Diesel Usage (in gallons)
Demolition	Concrete Saw	1	8	81	0.73	48	0.05	1,135
Demolition	Excavators	3	8	158	0.38	48	0.05	3,458
Demolition	Rubber Tired Dozers	2	8	247	0.48	48	0.05	4,553
Site Preparation	Rubber Tired Dozers	3	8	247	0.48	32	0.05	4,553
Site Preparation	Tractors/Loaders/Backhoes	4	8	97	0.74	32	0.05	3,675
Grading	Excavators	2	8	158	0.38	72	0.05	3,458
Grading	Graders	1	8	187	0.36	72	0.05	1,939
Grading	Rubber Tired Dozers	1	8	247	0.82	72	0.05	5,833
Grading	Scrapers	2	8	367	0.46	72	0.05	9,724
Grading	Tractors/Loaders/Backhoes	2	8	97	0.43	72	0.05	2,402
Building Construction	Cranes	1	7	231	0.38	704	0.05	21,629
Building Construction	Forklifts	3	8	89	0.74	704	0.05	55,639
Building Construction	Generator Sets	1	8	84	0.36	704	0.05	8,516
Building Construction	Tractors/Loaders/Backhoes	3	7	97	0.48	704	0.05	34,417
Building Construction	Welders	1	6	46	0.82	704	0.05	7,966
Paving	Pavers	2	8	130	0.38	56	0.05	2,213
Paving	Paving Equipment	2	8	132	0.74	56	0.05	4,376
Paving	Rollers	2	8	80	0.41	56	0.05	1,469
Architectural Coating	Air Compressors	1	6	78	0.44	56	0.05	577
							Total	168,387

Off-Site Construction Fuel Consumption

Phase	Number of Daily Trips	Number of Days	Average Round-Trip Commute Distance (in miles)	Fuel Usage (mpg)[a]	Gasoline/Diesel Usage (in gallons)
Worker Trips (Gasoline)					
Demolition	15	48	14.7	18.6	569
Site Preparation	18	32	14.7	18.6	455
Grading	20	72	14.7	18.6	1,138
Building Construction	56	704	14.7	18.6	31,158
Paving	15	56	14.7	18.6	664
Architectural Coating	11	56	14.7	18.6	487
				Total Gasoline Usage	**33,984**
Vendor Trips (Diesel)					
Demolition	0	48	6.9	6.5	0
Site Preparation	0	32	6.9	6.5	0
Grading	0	72	6.9	6.5	0
Building Construction	22	704	6.9	6.5	16,441
Paving	0	56	6.9	6.5	0
Architectural Coating	0	56	6.9	6.5	0
Haul Trips (Diesel)					
Demolition	493	48	20	6.5	72,812
Site Preparation	0	32	20	6.5	0
Grading	0	72	20	6.5	0
Building Construction	0	704	20	6.5	0
Paving	0	56	20	6.5	0
Architectural Coating	0	56	20	6.5	0
				Total Diesel Usage	**89,253**

APPENDIX E

Preliminary Geotechnical Site Evaluation

PRELIMINARY GEOTECHNICAL SITE EVALUATION
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA

Prepared for:

Los Angeles Unified School District
333 S Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-62-0-100
June 9, 2017

GORIAN & ASSOCIATES, INC.

TABLE OF CONTENTS

1.0 INTRODUCTION 1
Figure 1 - Vicinity Map 2
2.0 PROPOSED CONSTRUCTION 3
3.0 SCOPE OF SERVICES 3
3.1 ARCHIVAL REVIEW 3
3.2 SUBSURFACE EXPLORATION 3
3.3 LABORATORY TESTING 3
3.4 GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT PREPARATION 4
4.0 SITE DESCRIPTION 4
5.0 REGIONAL GEOLOGIC SETTING 4
Figure 2 – Regional Geologic Map 5
6.0 SITE GEOLOGIC UNITS 6
6.1 PAVEMENTS 6
6.2 ARTIFICIAL FILL 6
6.3 ALLUVIUM 6
6.4 GROUNDWATER 6
6.5 LANDSLIDES 6
6.6 FLOOD HAZARD ZONE 6
6.7 FAULTING AND SEISMICITY 6
Figure 3 - Regional Fault Map 7
6.8 LIQUEFACTION POTENTIAL 8
6.9 CORRELATION CPT AND BORING 9
6.10 HYDRO-COLLAPSE 9
7.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS 9
7.1 SOIL EXPANSIVENESS 9
7.2 SOIL CORROSIVITY 9
7.3 GEOTECHNICAL SEISMIC DESIGN 9
7.4 SITE PREPARATION 10
7.4.1 Site Cleanup 11
7.4.2 Soil Removals 11
7.4.3 In-Place Soil Processing 11
7.4.4 Fill Placement 11
7.4.5 Relative Compaction 12
7.4.6 Temporary Excavations 12
7.5 SHALLOW FOUNDATION DESIGN 12
7.5.1 Conventional Footings 12
7.5.2 Conventional Footings - Retrofit 12
7.5.3 New Footing Surcharge on Existing Adjacent Footings 12
7.5.4 Resistance to Lateral Loads 13
7.5.5 Foundation Settlement 13
7.5.6 Footing Excavations 13
7.5.7 Slabs-On-Grade 13
7.5.8 Concrete Placement and Cracking 13
7.5.9 Under-Slab Treatment 14
7.5.10 Moisture Penetration 14
7.6 FLAG POLE FOOTING RECOMMENDATIONS 15
7.6.1 Pile Construction 15
7.7 RETAINING WALLS 15
7.7.1 General 15
7.7.2 Lateral Earth Pressures 15
7.7.3 Lateral Seismic Pressure 15
7.7.4 Waterproofing 16

7.7.5 Drainage 16
7.7.6 Backfilling 16
7.8 EXTERIOR SLABS AND WALKWAYS 16
7.9 PRELIMINARY PAVING SECTION 16
7.9.1 Structural Section 16
7.9.2 Subgrade Preparation 17
7.9.3 Aggregate Base Preparation 17
7.10 SITE DRAINAGE 17
7.11 PLAN REVIEW 17
8.0 CLOSURE 17
9.0 REFERENCES 19

Attachments: Appendix A: Logs of Subsurface Data
Appendix B: Laboratory Test Results
Appendix C: Seismically Induced Settlement Analyses
Plate 1: Geotechnical Exploration Map
Plate 2: Geotechnical Cross Sections

GORIAN & ASSOCIATES, INC.

Applied Earth Sciences
Geotechnical Engineers
Engineering Geologists
DSA Accepted Testing Laboratory
Special Inspection and Materials Testing

3595 Old Conejo Road
Thousand Oaks
California 91320-2122
805 375-9262
805 375-9263 fax

June 9, 2017

Los Angeles Unified School District
333 S Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-62-0-100

Attention: Peyman Soroosh Moghadam

Subject: **Preliminary Geotechnical Site Evaluation, Reseda High School, 18230 Kittridge Street, Reseda, California**

1.0 INTRODUCTION

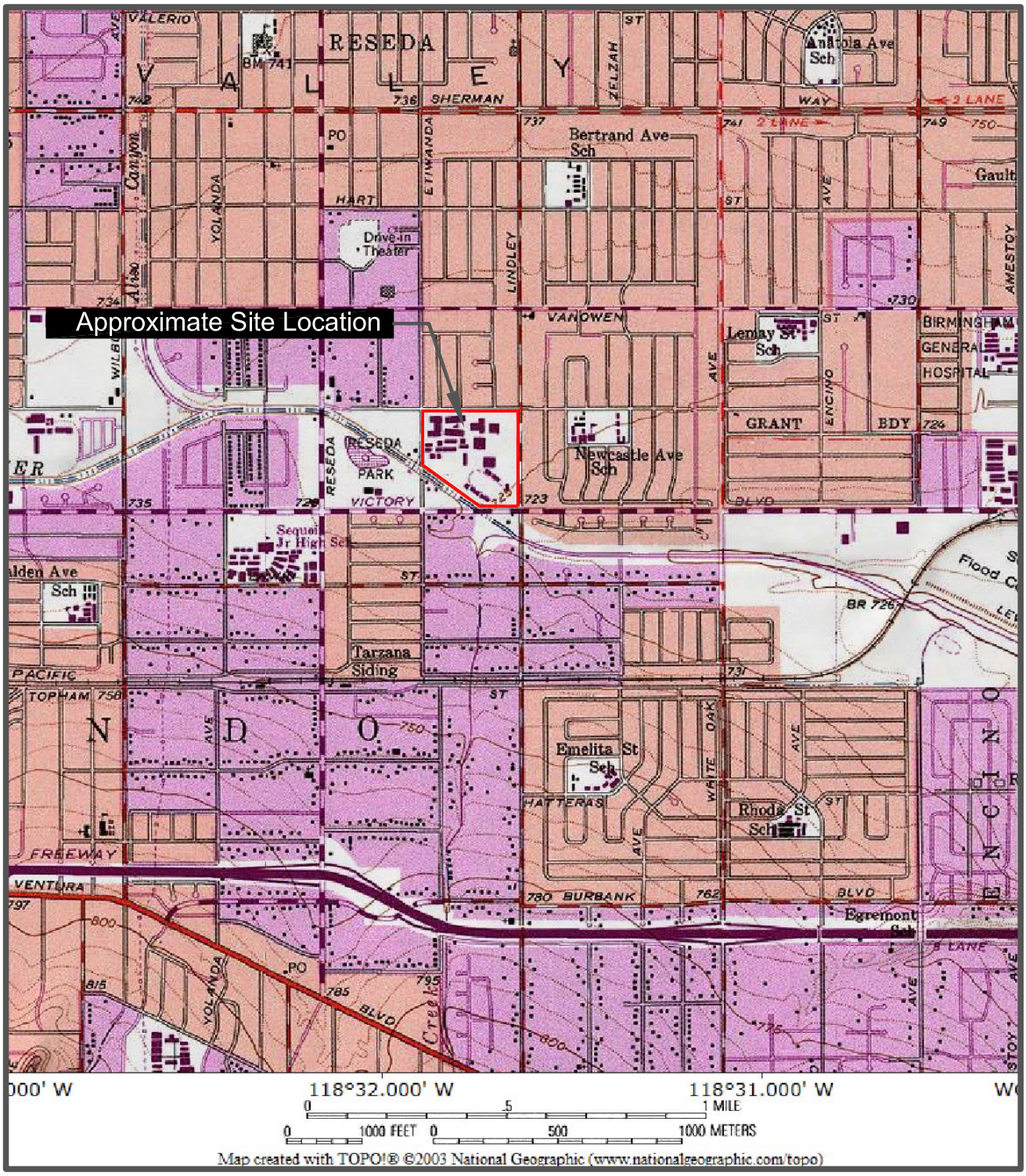
Presented herein are the results of our preliminary geotechnical site evaluation for the comprehensive modernization project at Reseda High School (Site) at 18230 Kittridge Street in the Reseda area of Los Angeles, California as shown on Figure 1. Detailed plans of the modernization are not available at this time; however, the project may include seismic retrofit and/or replacement of existing buildings.

Los Angeles Unified School District (LAUSD) launch team personnel identified eleven subsurface exploration locations for geotechnical evaluation. Eight locations were explored by drilling and sampling with a truck mounted hollow-stem auger drill rig and four locations were explored utilizing a truck-mounted, cone penetrometer test (CPT) sounding rig. In one location, both a boring and a CPT were performed for correlation purposes. The approximate locations of our exploratory points are shown on the attached Geotechnical Exploration Map, Plate 1.

The subsurface exploration found the area of the school evaluated for this report to be underlain by alluvial deposits (Holocene) locally mantled with artificial fill, grass, and pavement. General descriptions of the materials encountered in the subsurface exploration are presented in the text of this report with boring specific detail presented on the attached Logs of Subsurface Data (Appendix A).

The Site falls within a State of California designated Liquefaction Seismic Hazard Zone (CGS, 1998). Therefore, to evaluate the potential for seismically induced settlement four CPTs and one boring were extended to a depth of 50 feet as required in California Geological Survey (CGS) Special Publication 117A for the evaluation of seismically induced ground settlement.

Analyses of seismically induced settlement yielded settlement on the order of 1 to 3 inches in the CPT Soundings and 2½ inches in the boring (B-8) with differential seismic settlement estimated at ¾ to 1½ inches. Preliminary lateral spread analyses for the CPT closest to the Los Angeles County Flood Control Channel indicated approximately 1½ inches of lateral spread. Based on the CGS Special Publication 117A, structural mitigation may be used within this range of seismically induced settlement and lateral spread.



Source
United States Geological Survey, *Canoga Park Quadrangle, California-Los Angeles County*. 7.5 Minute Series (Topographic)

SITE LOCATION MAP

Reseda High School
18230 Kittridge St,
Reseda, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-62-0-100		Date: June 2017
Scale:1" = 2000'	Drawn by:	Figure 1
	Approved by:	

The area of Reseda High School evaluated for this report was found to be suitable for the seismic retrofit and/or replacement of existing buildings from a geotechnical standpoint. This is provided recommendations presented herein are implemented in the project design and construction.

2.0 PROPOSED CONSTRUCTION

Subsurface conditions at the site were evaluated in anticipation of seismic retrofit and/or replacement of existing buildings at the subject site. The focus of the evaluation was in the northern portion of the site, where most of the existing buildings are present and adjacent the existing boys' gymnasium.

3.0 SCOPE OF SERVICES

Gorian and Associates, Inc. conducted this geotechnical evaluation for the proposed modernization project at the current Reseda High School site under the supervision of a State registered geotechnical engineer and certified engineering geologist. Our evaluation of the site included:

3.1 ARCHIVAL REVIEW

Pertinent geotechnical data available in our office was reviewed.

3.2 SUBSURFACE EXPLORATION

Eight geotechnical borings were drilled to depths ranging from 31 feet (B-1, B-3, B-4, B-6, B-7, B-9, and B-11) to 51½ feet (B-8) below the existing ground surface (bgs) to evaluate the underlying soil and groundwater conditions. A subcontractor supplied and operated truck-mounted hollow-stem auger drill rig was used to advance the borings to the indicated depth. Field exploration activities described above were observed by an engineer or geologist from this office, who logged the underlying materials and obtain bulk and relatively undisturbed drive soil samples for laboratory analyses. Standard Penetration Testing (SPT) of the encountered in-situ earth materials was performed at various depths within exploratory boring B-8. Four Cone Penetrometer Test (CPT) Soundings were advanced to depths of approximately 50 feet bgs (CPT-2, CPT-5, CPT-8, and CPT-10) utilizing a subcontractor supplied and operated cone penetrometer test rig.

The points of exploration were marked in the field and a utility locator subcontractor was contacted to identify the surface trace of detectable underground utilities and abandoned piping in an effort to explore away from subsurface utilities. Additionally, Underground Service Alert (USA) was contacted per State mandated protocol prior to excavation on the site.

At the end of drilling, the borings were backfilled with the excavated material and/or patched with asphalt cold patch, the CPT soundings were filled with bentonite. Both the boring and CPT backfills may settle with time and a LAUSD representative should fill any depression that may occur, as necessary.

3.3 LABORATORY TESTING

A program of geotechnical laboratory testing was performed to evaluate properties of selected soil samples obtained during the subsurface exploration. The following tests were conducted for this preliminary site evaluation:

- In-situ moisture content and dry density
- Maximum density and optimum moisture content relationships
- Direct Shear Testing
- Consolidation Testing
- Expansion Index Testing
- Hydrometer Analyses
- Corrosion Testing

3.4 GEOTECHNICAL ENGINEERING ANALYSIS AND REPORT PREPARATION

This report was prepared to present the results of our archival research, field subsurface exploration and laboratory testing programs, and engineering analyses including the findings and conclusions of our preliminary geotechnical site evaluation. The report includes:

a) A description of subsurface conditions as encountered in the exploratory excavations, including Logs of Subsurface Data (Appendix A) and a Geotechnical Exploration Map (Plate 1).

b) A description of the laboratory testing program, including tests results (Appendix B).

c) Geotechnical Cross Sections (Plate 2) showing the interpreted subsurface profile.

d) Discussion and recommendations regarding:

   i) Geologic hazards including seismic setting of the site and faulting;

   ii) Seismic design criteria for new and retrofit/modernization buildings;

   iii) Seismically induced settlement;

   iv) Site preparation and remedial grading;

   v) Foundation design recommendations including shallow, mat and deep foundations including estimated settlements;

   vi) Retaining wall design parameters, including earthquake loading;

   vii) Pavement design recommendations; and

   viii) Soil chemistry analysis, by subcontract.

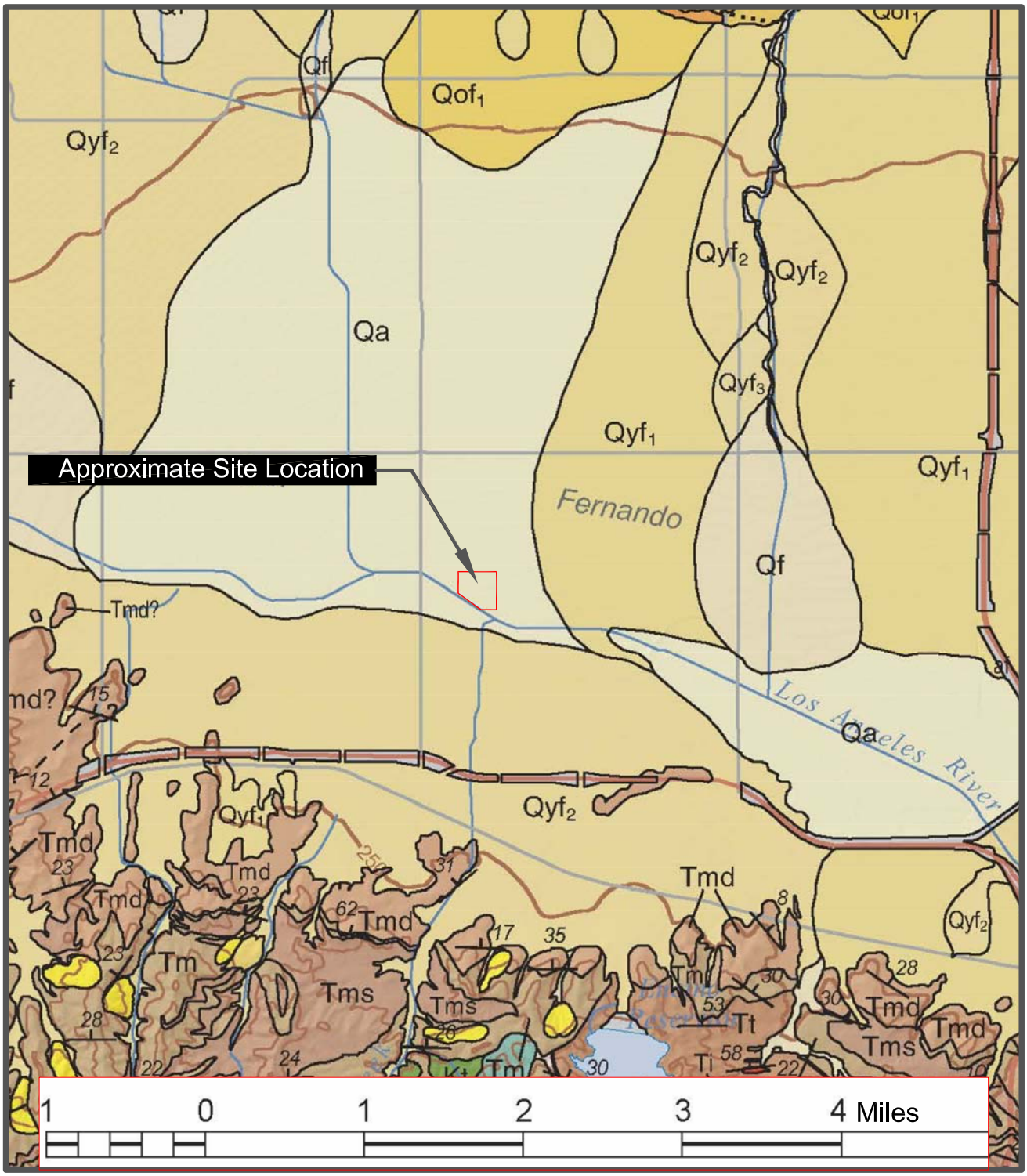
The scope of services for this report did not include a geotechnical evaluation of the existing structures.

4.0 SITE DESCRIPTION

Reseda High School is on a relatively flat irregularly shaped parcel bounded on the north by Kittridge Street, the east by Lindley Avenue, the south by Victory Boulevard, the southwest by the Los Angeles River Flood Control Channel, and on the west by Etiwanda Avenue (see Figure 1). Onsite, the existing buildings are generally on the northwestern portion of the campus with the southern and eastern portions consisting of modular classrooms and asphalt covered playground and grass fields. Grass and land-scaping is present on the western side of the school along Etiwanda Avenue and scattered between the buildings. The areas of our evaluation are shown on the attached Geotechnical Exploration Map, Plate 1.

5.0 REGIONAL GEOLOGIC SETTING

The Site is in the southwestern portion of the San Fernando Valley, an east trending structural trough within the Transverse Ranges geomorphic province of Southern California. This geomorphic province is dominated by active compressional tectonics (crustal shortening) and is characterized by east west tending ranges and ridges with intervening canyons and valleys. The San Fernando Valley has been filled from the sides with sediments from drainages of the San Gabriel Mountains (mainly) and Santa Susana Mountains to the north, the Santa Monica Mountains to the south, and the Simi Hills and Verdugo Mountains to the west and east, respectively. Being on the southern portion of the Valley, in the area near the thalweg of the L.A. River drainage, the Site is underlain by alluvial basin deposits (see Figure 2).



Source: Campbell, R.H., Wills, C.J., Irvine, P.J., and Swanson, B.J., Compilers with Digital preparation by Gutierrez, C.I., and Neal, M.D., 2014, *PRELIMINARY GEOLOGIC MAP OF THE LOS ANGELES 30'X60' QUADRANGLE, CALIFORNIA. VERSION 2.1.*

Explanation

af - Artificial Fill (freeways)
Qa - Alluvium
Qf - Alluvial Fan Deposits
$Qyf_{1,2,3}$ - Young Alluvial Fan Deposits (Units 1,2, and 3)
Qof_1 - Old Alluvial Fan Deposits
Tm - Modelo Formation

REGIONAL GEOLOGIC MAP

Reseda High School
18230 Kittridge St,
Reseda, California

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-62-0-100		Date: June 2017
Scale:1" = 5000'	Drawn by: / Approved by:	Figure 2

6.0 SITE GEOLOGIC UNITS

The Site is underlain by native soils referred to as alluvial deposits (Holocene) locally mantled with artificial fill, grass, and pavement. General descriptions of the pavement, artificial fill and alluvium as encountered in our exploratory borings are presented below with boring specific detail presented on the attached Logs of Subsurface Data (Appendix A).

6.1 PAVEMENTS

The pavement sections observed in the areas explored varied from 2 inches of asphaltic concrete (A.C.) over 2 inches of aggregate base overlying fill in boring B-6 to 3 and 4 inches of A.C. overlying native soils (B-11 and B-3) to 3 and 5 inches of A.C. overlying fill soils (B-8 and B-7). Boring B-9 encountered a 5 inch thick concrete slab-on-grade overlying native soils.

6.2 ARTIFICIAL FILL

Artificial fill soils were found to vary in thickness from 1½ feet to 5 feet. As observed the fill soils generally consist of mottled silty clay in a damp to moist and soft to very stiff condition. In boring B-8 the 2 feet of encountered fill soil consisted of silty fine to coarse sand with gravel in a moist and medium dense condition. Given the developed nature of the Site other areas of fill are likely to exist.

6.3 ALLUVIUM

The late Holocene alluvial soil profile consists predominantly of silty clays with thin layers of clayey to silty fine sand interstratified. The soils were moist to very moist and became saturated below groundwater. The alluvial soils varied in consistency from medium stiff to very stiff for the cohesive, clayey alluvial soils and medium dense to dense where sandy.

6.4 GROUNDWATER

Groundwater was encountered at depths of approximately 29 feet (B-1) and 33½ feet (B-8) bgs. Six other borings drilled to 31 feet did not encounter groundwater. As previously mentioned, historical high groundwater is on the order of 10 feet below the existing grade (CGS, 1997).

6.5 LANDSLIDES

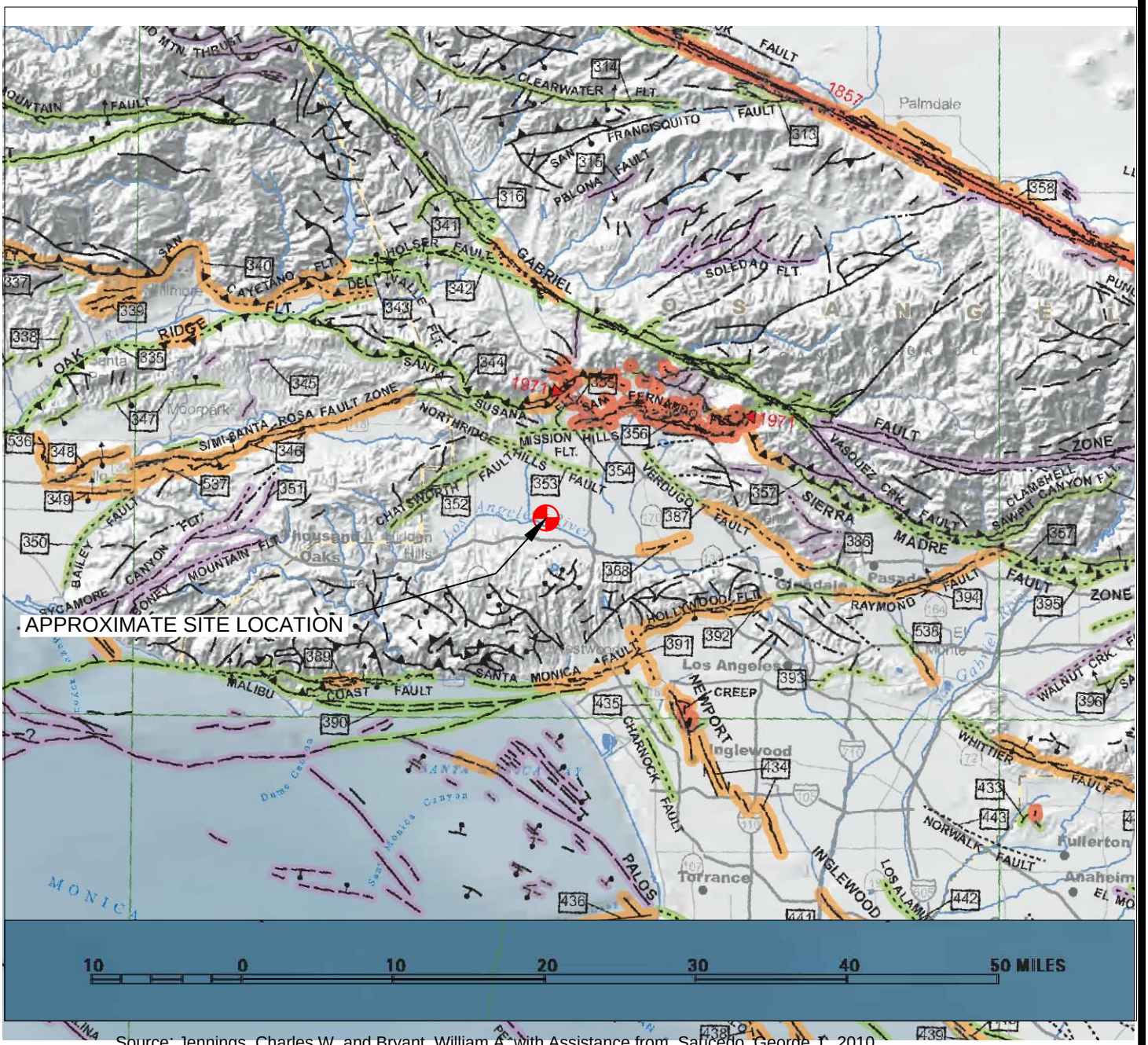
No landslides are present within or near the site nor are any shown on regional geologic maps.

6.6 FLOOD HAZARD ZONE

The proposed site is not in a Federal Emergency Management Agency (FEMA) mapped flood hazard zone (FEMA FIRM Map, 2008). The site is adjacent to a flood control channel. The site is also not in a dam or tsunami inundation zone (City of Los Angeles Dept. of City Planning, website).

6.7 FAULTING AND SEISMICITY

Reseda High School, like other sites in the San Fernando Valley, is in a seismically active region prone to occasional damaging earthquakes. The destructive power of earthquakes can be grouped into fault-rupture, ground shaking (strong motion), and secondary effects of ground shaking (such as tsunami, liquefaction, settlement, landslides). The hazard of fault-rupture is generally thought to be associated with a relatively narrow zone along well-defined pre-existing active or potentially active faults. No doubt there is and will be exceptions to this, because it is not possible to predict the precise location of a new fault where none existed before (CDMG, 1975). No active faults are known to cross the Site. The Site is not currently within an Alquist-Priolo Earthquake Fault Zone as defined by the State Geologist (Bryant and Hart, 2007).



Source: Jennings, Charles W. and Bryant, William A. with Assistance from Saucedo, George J., 2010, *FAULT ACTIVITY MAP OF CALIFORNIA*. California Geological Survey Geologic Data Map Series -- Map No. 6.

Geologic Time Scale			Years Before Present (Approx.)	Fault Symbol	Recency of Movement	DESCRIPTION	
						ON LAND	OFFSHORE
Quaternary	Late Quaternary	Historic				Displacement during historic time (e.g. San Andreas fault 1906). Includes areas of known fault creep.	
		Holocene	200			Displacement during Holocene time.	Fault offsets seafloor sediments or strata of Holocene age.
		Pleistocene	11,700			Faults showing evidence of displacement during late Quaternary time.	Fault cuts strata of Late Pleistocene age.
	Early Quaternary		700,000			Undivided Quaternary faults - most faults in this category show evidence of displacement during the last 1,600,000 years; possible exceptions are faults which displace rocks of undifferentiated Plio-Pleistocene age.	Fault cuts strata of Quaternary age.
Pre-Quaternary			1,600,000 - 4.5 billion			Faults without recognized Quaternary displacement or showing evidence of no displacement during Quaternary time. Not necessarily inactive.	Fault cuts strata of Pliocene or older age.

REGIONAL FAULT MAP

Reseda High School
18230 Kittridge St,
Reseda, California

GORIAN & ASSOCIATES, INC.
APPLIED EARTH SCIENCES

Work Order: 2880-62-0-100		Date: June 2017
Scale:1"= 10 Miles	Drawn by:	Figure 3
	Approved by:	

The closest historically active surface fault is the San Fernando fault which ruptured February 9, 1971 and is approximately 7 miles north-northeast of the site. The active Hollywood fault, part of the Santa Monica-Hollywood-Raymond fault system lies approximately 10 miles southeast of the Site and the active Verdugo fault is approximately 11 miles east of the site (see Figure 3). The potential for ground rupture on site due to faulting during the life expectancy of the project is considered remote.

Although no active faults are known to exist within the site, the area will be subject to strong ground motion from occasional earthquakes in the region. Four significant earthquakes have occurred centered within 40 miles of the site within the last eight decades; the March 11, 1933 Long Beach earthquake (6.4 magnitude), the February 9, 1971 San Fernando earthquake (6.6 magnitude) with its epicenter about 16½ miles northeast of the Site, the October 1, 1987 Whittier Narrows earthquake (6.0 magnitude), and the January 17, 1994 Northridge earthquake (6.7 magnitude) with its epicenter 1½ miles southwest of the site.

It is estimated during the Northridge event, the general area of the school experienced maximum horizontal accelerations on the order of 0.45gon the alluvial soil site condition. This is based upon ground motion data obtained from ground motion contours presented in Chapter 3 of the *Preliminary Report on the Principal Geotechnical Aspects of the January 17, 1994 Northridge Earthquake* (Chang et al., 1994). Significant earthquakes will likely occur in this area within the life expectancy of the project and the site will experience strong ground shaking from these events.

Based on the latest U.S. Geological Survey (USGS) interactive web application, *Unified Hazard Tool* <https://earthquake.usgs.gov/hazards/interactive/> probabilistic seismic hazard analyses (PSHA) predict the Design Basis Earthquake (475-year return period) peak horizontal ground acceleration will be on the order of 0.62g for the alluvial soil conditions of the Site D (assumed V_S=259 m/sec). The mean magnitude from this PSHA is 6.54(Mw) with a mean distance of 14.88 km from the property. Utilizing a 2% probability of exceedance in 50 years (2,475-year return period) the peak ground acceleration is estimated to be 1.10g based on a seismic event with a mean magnitude of 6.67(Mw) at a mean distance of 12.85 km.

Additional seismic data is presented in later sections and in Appendix C. Secondary effects of strong ground motion include Tsunami, seiche, liquefaction, settlement, landslides, etc. Tsunami (seismic sea wave and seiche (standing wave) are not hazards inherent to the site due to its distant proximity to the ocean and large bodies of water. Likewise, seismically induced landsliding is not a hazard inherent to the relatively flat Site. Earthquake induced liquefaction and seismic settlement affecting the proposed site development are discussed below.

6.8 LIQUEFACTION POTENTIAL

Liquefaction is a seismic phenomenon in which saturated cohesionless soils (sands) lose strength when severely shaken and develop excess pore pressures. As stated in the CDMG (1997) report, “In order to be susceptible to liquefaction, potentially liquefiable soils should be saturated or nearly saturated. In general, liquefaction hazards are most severe in the upper 50 feet of the surface…”

The Site is in an area zoned by the State as being susceptible to liquefaction (CGS, 1998). Seismically induced settlement was evaluated using data obtained from both borings and CPTs (cone penetration tests). The computer program GeoSuite by GeoAdvanced™ was used for the liquefaction and dry sand settlement analyses. For liquefaction/seismic settlement evaluations the 2016 CBC / ASCE 7-10 designates a ground motion with a 2% chance of being exceeded in 50 years (2475 return period) be utilized. The mean magnitude from this PSHA is 6.67 (Mw) with a mean distance of 12.85 km from the property. The modal magnitude from this analysis is 6.31 (Mw) and the modal distance is 11.17 km from the prop-

erty. The peak ground acceleration in accordance with Section 11.8.3 of ASCE 7 is 0.645g. These parameters were utilized in our seismically induced settlement analyses and yielded seismically induced settlement of on the order of 1 to 3 inches in the CPT Soundings and 2½ inches in the boring (B-8), see Appendix C. Differential seismic settlement is typically anticipated to be one-half of the total seismic settlement. Based on the estimated seismic settlement, the estimated differential seismic settlement will be on the order of ¾ to 1½ inches.

Potential lateral spread was calculated using Youd, Hansen and Bartlett for the CPT closest to the Los Angeles County Flood Control Channel. The channel was assumed to be 15 feet deep. CPT-10, when subjected to the 2,475-year return period event yielded lateral spread of 1½ inches.

6.9 CORRELATION CPT AND BORING

Boring B-8 and CPT-8 were excavated in the same general area. The subsurface profiles consisted mainly of clay soils with occasional thin sand lenses. The CPT identified sand layers from 1½-2½, 17-17½, 32-33 and at 50 feet bgs. The boring encountered sand layers from ¼-2, 15½-18½, 28½-29½, 30½-32, 44-47, and at 50 feet bgs. The calculated seismic settlement was higher for the boring, 2.4 inches vs 1.3 inches for the adjacent CPT. This is likely due to the thicker sand layers in the boring as a result of the discrete rather than continuous sampling intervals. Also, the boring identified more sand layers than the CPT; and the sand layers in the boring may have been more cohesive than reported. Furthermore, the analyses of the boring used blow counts obtained from both SPT and ring samples.

6.10 HYDRO-COLLAPSE

Based on consolidation testing of the underlying soils, the cohesive and expansive nature of the preponderance of the soils, the potential for hydro-collapse of the underlying soils is low.

7.0 GEOTECHNICAL CONCLUSIONS AND RECOMMENDATIONS

From a geotechnical standpoint, our preliminary geotechnical hazards evaluation for the proposed project has found that with proper design and construction practices, the Site is suitable for future development/modernization. We understand the project is in the very early stages and no design information is available at this time. Presented below are preliminary design information which may help determine the extent of the modernization project.

7.1 SOIL EXPANSIVENESS

Soil expansion tests were performed on representative soil samples obtained from the site. Test results indicate the underlying materials have a low to medium expansion potential, in the 21-90 expansion index range.

7.2 SOIL CORROSIVITY

Two samples of on-site soils were obtained and sent to Atlantic Consultants for soil chemistry analyses. The results, attached in Appendix B, indicate the corrosion class of concrete in contact with the onsite soils is negligible to severe for sulfate exposure and negligible for chloride exposure. Further, the onsite soils are moderately corrosive to corrosive to ferrous metals and corrosive to copper piping.

7.3 GEOTECHNICAL SEISMIC DESIGN

The site may experience strong ground shaking from seismic events generated on regionally active faults. Seismic ground motion parameters were evaluated using a simplified code based approach and ground motion procedures for seismic design. The simplified code based approach follows the procedures in the 2016 California Building Code (CBC) based on ASCE/SEI 7-10 Section 11.4. Retrofit values were obtained from ASCE 41-13 using the standard of BSE-1E.

Seismic ground motion values are initially determined based on site class B (rock) conditions. The values are adjusted to obtain the maximum considered earthquake (MCE) spectral acceleration values for the site based on its site class of D. The seismic design parameters for the site's coordinates (latitude 34.18943° North and longitude 118.53011° West) were obtained from the USGS web based spectral acceleration response maps and calculator:
<http://earthquake.usgs.gov/designmaps/us/application.php>

Seismic Parameters based on ASCE/SEI 7-10

CHAPTER 16 TABLE/FIGURE NO.	SEISMIC PARAMETER	VALUE PER CA BUILDING CODE
Figure 1613.5 (3)	Short Period Mapped Acceleration (S_s)	1.760g
Figure 1613.5 (4)	Long Period Mapped Acceleration (S_1)	0.620g
Table 1613.5.2	Site Class Definition	D
Table 1613.5.3 (1)	Site Coefficient (F_a)	1.0
Table 1613.5.3 (2)	Site Coefficient (F_v)	1.5
Equation 16-37	$S_{MS} = F_aS_s$	1.760g
Equation 16-38	$S_{M1} = F_vS_1$	0.930g
Equation 16-39	$S_{DS} = 2/3S_{MS}$	1.173g
Equation 16-40	$S_{D1} = 2/3S_{M1}$	0.620g

Seismic Parameters based on ASCE 41-13 Retrofit Standard, BSE-1E

Section	SEISMIC PARAMETER	VALUE
2.4.1.4	$S_{S,20/50}$	0.813g
2.4.1.4	$S_{1,20/50}$	0.291g
2.4.1.6.1	Site Class Definition	D
Table 2-3	F_a	1.175
Table 2-4	F_v	1.819
Equation 2-4	$S_{XS,BSE-1E}$	0.955g
Equation 2-5	$S_{X1,BSE-1E}$	0.529g

The purpose of the building code earthquake provisions is primarily to safeguard against major structural failures and loss of life, not to limit damage nor maintain function. Therefore, values provided in the building code should be considered minimum design values and should be used with the understanding site acceleration could be higher than addressed by code based parameters. Cracking of walls and possible structural damage should be anticipated in a significant seismic event.

7.4 SITE PREPARATION

Areas of new construction will require site preparation prior to foundation excavation or slab subgrade preparation. The following preliminary site preparation and grading recommendations are for the preparation of areas for construction of new buildings, retrofit buildings and other exterior site improvements.

These recommendations should be reviewed when plans are available for the proposed modernization of the school. Footing locations and dimensions of the existing structures are unknown; therefore, care should be taken to protect the foundations and their supporting soils at all times. The presence of the existing buildings should be considered during all design and construction activities. All aspects of grading including site preparation, grading, and fill placement should be per the applicable Building Code.

7.4.1 Site Cleanup

Existing paving, debris, structures, etc. that are not a part of the final product should be removed from the proposed construction area. Debris generated from the demolition should be hauled away. The exposed ground surface should be observed and tested by a field representative of this office to evaluate the consistency and similarity of the soils which will provide support to the proposed construction.

7.4.2 Soil Removals

Below new buildings and 5 horizontal feet beyond, non-engineered fill soils where encountered should be removed to firm in-place native soils. In addition, within the footprint of the structures and to a minimum distance of five feet beyond, at least three feet of newly compacted soils should be provided below shallow foundations. Where deep foundations (piles) are proposed, existing fill should be removed where encountered and a minimum of two feet of newly compacted fill soils should be provided for slab support.

In areas of paving, a minimum of two feet of newly compacted fill should be provided. Existing fill soils, where encountered, should be evaluated prior to placing new fill soils.

Due to possible variations in the subsurface materials, local areas of deeper removals may be necessary. After these removals are completed as addressed above, the exposed ground surface should be observed by a field representative of this office to evaluate if it is suitable for placement of certified fill. No fill soils may be placed until completion of the geotechnical observation.

Removals adjacent existing structure footings should not extend below a 2(horizontal):1(vertical) line extending down from the top of the footing or may need to be performed in slots to protect the existing foundations. Removal bottoms should be observed by a representative of this office. In addition, removals adjacent existing footings should be observed by a representative of this office as the removals are made.

Soil removal within existing buildings to be improved should be based on observations by a representative of this office of the existing soil conditions after being exposed by the general contractor. At this time, no significant soil removals are anticipated within existing buildings to be improved.

If soil removals are necessary within an existing building, removals within areas to receive fill or to provide support for the structure should expose competent materials. Removals adjacent existing structure footings should not extend below a 2(horizontal):1(vertical) line extending down from the top of the footing or may need to be performed in slots to protect the existing foundations. Removal bottoms should be observed by a representative of this office. In addition, removals adjacent footings should be observed by a representative of this office as the removals are made.

7.4.3 In-Place Soil Processing

Following removals, the underlying 8 to 12 inches should be scarified, moisture conditioned to above the optimum moisture content, and recompacted to at least 90% relative compaction.

7.4.4 Fill Placement

On-site soils may be reused as fill soils providing the soils are free of major vegetation, trash and debris. Per the applicable building code, rocks greater than 6 inches in diameter (or smallest dimension) should be excluded from all fills placed. Suitable fill soils should be placed in thin (6 to 8 inch maximum) lifts, brought to above optimum moisture content, and compacted to at least 90% relative compaction.

7.4.5 Relative Compaction
Relative Compaction is the ratio of in-place dry soil density to the maximum dry soil density determined in general conformance with ASTM test method D 1557.

7.4.6 Temporary Excavations
During construction, the contractor is responsible for the excavation and maintenance of safe and stable slope angles considering the subsurface conditions and the methods of operations. Temporary excavations should be made per the applicable requirements of the current Cal/OSHA excavation regulations. Geotechnical evaluation of temporary excavations can be provided when the excavation location is known.

7.5 SHALLOW FOUNDATION DESIGN
Geotechnical recommendations for conventional foundation systems are presented below based on soils with a medium expansion potential (51-90 expansion index range).

7.5.1 Conventional Footings
Continuous and isolated footings may be designed to impose an allowable bearing pressure of 1,500 pounds per square foot (psf). These bearing pressures apply for dead plus live loads and may be increased by one-third when considering wind or seismic loads.

Continuous and isolated footings should have minimum widths of 12 and 18 inches, respectively. The footings should be embedded a minimum of 24 inches. Embedment of exterior footings should be measured from the lowest adjacent exterior grade. Interior footings may be measured from the top of slab. Bearing values may be increased by 250 psf for each additional foot of depth above the minimum and 100 psf for each additional foot of width to a maximum of 3,000 psf. After excavation, footing bottoms should be observed by a representative of this office to evaluate if additional soil removal or recompaction is warranted.

Steel reinforcement should be per the structural engineer's recommendations; however, minimum continuous footing reinforcement should consist of two number 4 bars in the top and bottom (total of 4 bars).

7.5.2 Conventional Footings - Retrofit
The seismic retrofit may be supported on continuous and isolated footings founded in suitable existing fill soils or competent native soils and should be a minimum of 12 and 24 inches wide, respectively. The footings may be designed to impose an allowable soil bearing pressure of 1,800 psf provided they are a minimum of 24 inches below the lowest adjacent grade. The above net allowable bearing capacity may be increased by one-third for short-term wind and seismic loads.

The embedment should be a minimum of 24 inches for perimeter and interior footings, or re-evaluated to match the existing footings. The lowest adjacent grade is the lowest soil grade adjacent the footings, interior or exterior. After excavation, footing bottoms should be compacted. Interior footings may be measured from the top of slab.

Steel reinforcement should be per the structural engineer's recommendations. However, minimum reinforcement for continuous footings should consist of one #4 bar in the top and bottom (minimum total of two bars).

7.5.3 New Footing Surcharge on Existing Adjacent Footings
Where new footings are utilized for the seismic retrofit, the footings should be founded at the same depth as the existing footings. Because of the influence of the new applied load, new footings will add vertical stress to the soils underlying the existing adjacent footings. For continuous wall footings and for square

pad footings, approximately 20% and 10% of the wall or square footing load in psf, respectively, will be distributed under the adjacent existing wall footing. The resulting settlement can be calculated once footing sizes and loads along with the location of the new footings relative to existing footings are known.

The soil stresses from existing footings should not have an effect on adjacent new footing settlement since stresses from the existing footings are already applied and settlement has already occurred.

7.5.4 Resistance to Lateral Loads

Lateral forces on foundations in fill soils may be resisted by passive earth pressure and base friction. Lateral passive earth pressure may be considered equal to a fluid weighing 250 pounds per cubic foot (pcf) where the footing is on level ground. Base friction may be computed at 0.25 times the normal load. These values have a factor of safety of 1.5 and may be combined without reduction.

7.5.5 Foundation Settlement

Settlements of new shallow footings due to static loading are anticipated to be minor with settlement on the order of ½ to 1-inch. This should be confirmed when the actual foundation loads become available. Differential settlements between adjacent columns with similar static loading are anticipated to be on the order of one half the total settlements. Differential settlement between new and existing foundations should be evaluated when the actual foundation locations and loads become available.

The potential for seismic induced settlement due to liquefaction have been previously discussed in this report. Seismic induced movements are in addition to the potential for static settlement.

All structures settle during construction and minor structure settlement can occur after construction during the life of the project. Minor wall or slab cracking may also be associated with settlement or expansive soil movement. Wall cracking can also occur associated with expansion and contraction of structural wood members due to thermal or moisture changes. Settlement or soil movement could occur if the soils become saturated due to excessive water infiltration generally caused by excessive irrigation, poor drainage, etc.

7.5.6 Footing Excavations

All footings should be cut square and level and cleaned of slough and soils silted into the excavations. A representative of this office should observe the footing excavations prior to placing reinforcing steel. The footings should be cast as soon as possible to avoid deep desiccation of the footing subsoils. Soil excavated from the footing trenches should not be spread over areas of construction unless properly compacted.

7.5.7 Slabs-On-Grade

The concrete slabs-on-grade within the building interiors should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of aggregate as required by the applicable building code. Reinforcement should consist of a minimum of No. 4 bars at 18 inches on centers in both directions or per the structural engineer's design. The slab steel reinforcement should be extended into the foundations to within 3 inches of the footing bottom at 36 inches on center.

7.5.8 Concrete Placement and Cracking

Minor cracking of concrete slabs is common and is generally the result of concrete shrinkage continuing after construction. Concrete shrinks as it cures resulting in shrinkage tension within the concrete mass. Since concrete is weak in tension, development of tension results in cracks within the concrete. Concrete should be placed using procedures to minimize the cracking within the slab. Shrinkage cracks can become excessive if water is added to the concrete above the allowable limit and proper finishing and curing practices are not followed. Concrete mixing, placement, finishing, and curing should be performed

per the American Concrete Institute Guide for Concrete Floor and Slab Construction (ACI 302.1R). Concrete slump during placement should not exceed the design slump specified by the structural engineer. Where shrinkage cracks would be unsightly, concrete slabs on grade including post-tensioned slabs should be provided with tooled crack control joints at 10-15 foot centers or as specified by the structural engineer.

7.5.9 Under-Slab Treatment

Where moisture sensitive floor coverings will be utilized, an appropriate moisture vapor retarder layer should be installed and maintained below the concrete slabs to reduce moisture vapor transmission through the slab. Ten-mil plastic sheeting is commonly used as a moisture vapor retarder layer. If a higher degree of moisture retarder is warranted, a retarder in general accordance with ASTM E 1745-97 *Standard Specification for Plastic Water Vapor Retarders Used in Contact with Soil or Granular Fill under Concrete Slabs* should be considered below the interior concrete slabs on-grade installed per ASTM E1643-98(2005) *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill Under Concrete Slabs*.

Perforations through the moisture vapor retarder such as at pipes, conduits, columns, grade beams, and wall footing penetrations should be sealed per the manufacturer's specifications or ASTM E1643-98(2005) *Standard Practice for Installation of Water Vapor Retarders Used in Contact with Earth or Granular Fill under Concrete Slabs*. Proper construction practices should be followed during construction of the slab on-grade. Repair and seal tears or punctures in the moisture barrier that may result from the construction process prior to concrete placement.

Minimizing shrinkage cracks in the slab-on-grade can further minimize moisture vapor emissions. A properly cured slab utilizing low-slump concrete will reduce the risk of shrinkage cracks in the slab as described herein.

The concrete contractor should be made aware of the moisture vapor retarder and required to protect the layer. Perforations made in the layer by the concrete contractor should be properly sealed prior to concrete placement. In addition, if the concrete is placed directly on top of the layer the concrete contractor should make the necessary changes in the concrete placement and curing. Placing the concrete directly on top of the moisture vapor retarder layer allows the layer to be observed for damage directly prior to concrete placement.

The slabs should be tested for moisture content prior to the selection of the flooring and adhesives. Moisture in the slabs should not exceed the flooring manufacturer's specifications. The concrete surface should be sealed per the manufacturer's specifications if the moisture readings are excessive.

Where cuts are made into the slab for future construction, the moisture vapor retarder layer should be repaired per the manufacturer's recommendation. Information regarding the need to repair the moisture vapor retarder layer and information on the selection of acceptable floor coverings should be conveyed to the school district personnel.

7.5.10 Moisture Penetration

Conventional footings and reinforced slab-on-grade subgrade soils should be premoistened to 3% over the optimum moisture content for a depth of 18 inches. However, the subgrade soils should not be flooded or soaked creating a saturated condition. A representative of this office should observe the subgrade soil premoistening prior to casting the concrete. Soils silted into the footing excavations during the premoistening operations should be removed prior to casting the concrete.

7.6 FLAG POLE FOOTING RECOMMENDATIONS

New, remodeled or retrofit structures may be supported by flagpole footings. These footings (piles) may be designed using an allowable lateral bearing pressure of 250 psf per foot of depth for level ground (maximum pressure should not exceed 2,500 psf). This value has a factor of safety of 1.5. If deflection of pole foundations is a concern, deflection calculations can be provided when loads are known.

7.6.1 Pile Construction

Due to layers of sand, some caving or raveling should be anticipated during the pile construction. The drilling contractor should be prepared to use casing in areas where excessive caving occurs.

Groundwater was encountered in our exploratory borings at depths ranging from 29 feet to 33½ feet below ground surface. It is unlikely that water will be encountered during drilling, if piles are shorter than about 29 feet. To minimize caving potential, piles should be filled with concrete in a timely manner and not left open overnight.

Where piles are installed below groundwater, the drilling contractor should be prepared to use casing and/or drilling mud. Where concrete is placed below groundwater, it will be necessary to use a tremie pipe that extends to the bottom of the pile. While placing the concrete, the tremie pipe must be maintained below the top of the concrete while below the water table. Where casing is required, a sufficient head of concrete must be maintained inside the casing while the casing is pulled in order to maintain stability of the hole. Due to the complexity of constructing concrete piles below the groundwater table, this procedure should be carefully controlled and monitored. To minimize caving potential, we recommend that the piles which encounter groundwater should be drilled and cast in the same day.

Care should be exercised when casting adjacent piles to avoid blowout from one excavation into the other. From an engineering standpoint, the preferred method would be to excavate, cast, and let the concrete achieve initial set prior to excavating the adjacent pile. However, where spacing between adjacent piles is greater than three times the largest pile diameter, satisfactory results have been achieved by casting adjacent piles simultaneously, keeping the differential elevation of the concrete less than five feet between piles.

Pile excavations should be observed by the project geotechnical consultant prior to setting reinforcing steel to verify the anticipated geotechnical conditions or to evaluate any unanticipated conditions encountered.

7.7 RETAINING WALLS

7.7.1 General

Retaining walls may be designed using the foundation recommendations previously provided herein.

7.7.2 Lateral Earth Pressures

Retaining walls that are backfilled with granular soils having a low expansion potential (Expansion Index less than 50) and allowed to yield at the top may be designed for an active pressure of 40 and 60 pounds per cubic foot for a level and 2(horizontal):1(vertical) slope backfill condition, respectively. Aerial surcharge may be treated as additional height of backfill where one foot of additional height is assumed for each 125 psf of aerial surcharge.

7.7.3 Lateral Seismic Pressure

Lateral seismic soil pressure is not required for retaining walls under 6 feet high. Walls over 6 feet high should be designed for seismic pressure of 17 pounds per cubic foot taken as an inverted triangle.

7.7.4 Waterproofing
Retaining walls should be waterproofed prior to installing the drainage system and wall backfill.

7.7.5 Drainage
A drainage system should be constructed behind retaining walls over two feet high to mitigate possible buildup of hydrostatic pressures. The drainage system may consist of either a drainage composite or granular drain consisting of a minimum 12 inch wide zone of 3/4 ± inch rock separated from the native materials by a single layer of filter cloth. The drainage system should extend to within 2 feet of finish grade with the upper 2 feet backfilled with native material. The drainage system should be hydraulically connected to a perimeter pipe drain consisting of a minimum 4 inch diameter perforated PVC (Schedule 40) pipe or equivalent. The pipe may be laid horizontally on the footing with the pipe invert at least 6 inches below any adjacent top of slab-on-grade. The outlet pipe from the perimeter drain should be a non-perforated 4 inch diameter PVC (Schedule 40) pipe that is sloped to and connected to a storm drain system or sump. An as-built plan should be prepared detailing the location of the wall drainage system.

7.7.6 Backfilling
Retaining walls should be backfilled when possible with soils having a soil expansion of less than 50, which may require select grading or import. The backfill should be placed in 6-inch lifts at slightly over optimum moisture content and compacted to at least 90 percent relative compaction. If the backcut is flatter than ½(horizontal):1(vertical), the backfill should be benched into the backcut slope. Light equipment should be used immediately behind the walls to prevent possible over-stressing.

7.8 EXTERIOR SLABS AND WALKWAYS
All exterior concrete slabs-on-grade and walkways should be a minimum of 4 inches thick and underlain by a minimum of 4 inches of sand. Exterior slabs should be reinforced with a minimum of #3 bars on 24 inch centers in each direction. All slabs should have crack control joints (full depth joints) at intervals of 10 to 15 feet. Sidewalks may consist of unreinforced concrete provided the walks are provided with crack control joints at spacing equal to the walk width.

Concrete subgrade soils should be properly placed and compacted for the support of the concrete flat-work. Prior to placing concrete, the subgrade soils should be premoistened to a minimum of 3% over the optimum moisture content for a minimum depth of 12 inches. Proper premoistening can reduce the risk of slab subgrade expansion, if used in addition to other preventive measures. The subgrade soil premoistening should be observed by this office prior to placing the concrete.

7.9 PRELIMINARY PAVING SECTION

7.9.1 Structural Section
Structural sections consisting of asphaltic concrete (AC) placed over a compacted layer of aggregate base are provided in the table below based on an assumed R value for the subgrade soils of 5. The asphalt and base should be properly placed and compacted to a minimum of 95% relative compaction. The project civil engineer should determine the appropriate traffic index for the pavement area. If buses will be using any of the drive areas a higher traffic index and thicker pavement section should be consid-ered.

Asphalt pavements should be maintained by filling cracks that appear and with periodic application of fog sealers to replace surface oils that are lost due to weathering and wear.

PRELIMINARY PAVEMENT SECTIONS	
Traffic Index	Assumed "R" Value = 5
4.0 playground	3" AC / 7" AB
5.0	3" AC / 10" AB
6.0 light automobile traffic	3" AC / 14" AB or 4" AC / 12"
AC = Asphaltic Concrete AB = Aggregate Base	

7.9.2 Subgrade Preparation
The subgrade soils within areas of proposed paving should be moistened to slightly above the optimum moisture content and compacted to at least 90% of the laboratory standard prior to placing aggregate base.

7.9.3 Aggregate Base Preparation
The aggregate base materials should be moistened to slightly above the optimum moisture content and compacted to at least 95% of the laboratory standard prior to placing concrete.

7.10 SITE DRAINAGE
Positive drainage should be consistently provided and maintained away from structures during and after construction per the grading plan or applicable building codes. In addition, drainage should not be changed creating an adverse drainage condition.

Water should not be allowed to gather or pond against foundations or hardscape allowing water migration into the subgrade. Therefore, landscape watering should be held to a minimum and irrigation systems maintained in good repair. Sprinkler or plumbing leaks should be immediately repaired. Trees should be spaced so that roots will not extend under foundations or slabs. Planters near a structure should be constructed so that irrigation water will not saturate footing and slab subgrade soils.

7.11 PLAN REVIEW
This office should review the building location, grading plans, foundation plans and specifications prior to starting construction to review conformance to recommendations in this report. Additional analysis and recommendations may be necessary based on this plan review.

This office should review the building location, grading plans, foundation plans and specifications prior to starting construction to review conformance to recommendations in this report. Additional geotechnical site evaluation may be necessary when plans are available for the modernization project. Additional analysis and recommendations may be necessary based for the plan review.

8.0 CLOSURE
This report was prepared under the direction of a registered geotechnical engineer and certified engineering geologist. No warranty, expressed or implied, is made as to conclusions and professional advice included in this report. Gorian and Associates, Inc. disclaims any and all responsibility and liability for problems that may occur if the recommendations presented in this report are not followed.

This report was prepared for Los Angeles Unified School District and their design consultants solely for the design and construction of the development described herein. This report may not contain sufficient information for other uses or the purposes of other parties. The recommendations are based on interpretations of the subsurface conditions concluded from information gained from subsurface explorations and a surficial site reconnaissance. The interpretations may differ from actual subsurface conditions, which can vary horizontally and vertically across the site. Due to possible subsurface

variations, a representative of this office should observe all aspects of field construction addressed in this report. Anyone using this report for bidding or construction purposes should perform such independent investigations as they deem necessary.

The scope of the services provided by Gorian and Associates, Inc. and its staff, excludes responsibility and/or liability for work conducted by others. Such work includes, but is not limited to, means and methods of work performance, quality control of the work, superintendence, sequencing of construction and safety in, on, or about the jobsite.

-oOo-

Please contact our office if you have questions regarding this report or require additional information.

Respectfully,

Gorian and Associates, Inc.

Sheryl N. Shatz, GE 2288
Senior Geotechnical Engineer

Jerome J. Blunck, GE 151
Principal Geotechnical Engineer

William F. Cavan, Jr., CEG 1161
Principal Engineering Geologist

Distribution: Addressee (4, 1 via email)
Attention: Ms. Cristina Cho

9.0 REFERENCES

Bryant, W.A., and Hart, E.W. 2007, *Fault Rupture Hazard Zones in California*. California Geological Survey Special Publication 42 (Interim Revision 2007).

California Division of Mines and Geology (CDMG) [now California Geological Survey (CGS)], 1975, *Guidelines for Evaluating the Hazard of Surface Rupture*. California Division of Mines and Geology Note Number 49.

California Division of Mines and Geology (CDMG) [now California Geological Survey (CGS)], 1995, *Supplement No. 1 to Special Publication 42 (1994 edition)*.

California Division of Mines and Geology (CDMG) [now California Geological Survey (CGS)], 1997, *Guidelines for Evaluating and Mitigating Seismic Hazards in California*. CDMG Special Publication 117; CGS Special Publication 117A (Revised) Release March 2009.

California Geological Survey (CGS), 1997, *Seismic Hazard Zone Report for the Canoga Park 7.5-Minute Quadrangle, Los Angeles County, California.* Seismic Hazard Zone Report 07 (latest revision date 10/10/2005). <http://gmw.consrv.ca.gov/shmp/download/quad/CANOGA_PARK/reports/canpk_eval.pdf>

California Geological Survey (CGS), 1998, *Earthquake Zones of Required Investigation Canoga Park Quadrangle.* Official Map Released February 1, 1998. <http://gmw.conservation.ca.gov/SHP/EZRIM/Maps/CANOGA_PARK_EZRIM.pdf>

Campbell, R.H., Wills, C.J., Irvine, P.J., and Swanson, B.J., Compilers with Digital preparation by Gutierrez, C.I., and Neal, M.D., 2014, *Preliminary Geologic Map of the Los Angeles 30'x60' Quadrangle, California. Version 2.1.* <http://maps.conservation.ca.gov/cgs/fam/>

Chang, S.W., Bray, J.D., and Seed, R.B., 1994, *Ground Motions and Local Site Effects*. in Stewart, J.P., Bray, J.D., Seed, R.B. and Sitar, N. editors, *Preliminary Report on the Principal Geotechnical Aspects of the January 17, 1994 Northridge Earthquake*, Earthquake Engineering Research Center, University of California at Berkeley, Report No. UBC/EERC-94/08.

City of Los Angeles-City Planning Department, *Zone Information & Map Access System* <http://zimas.lacity.org/>.

Dibblee, Jr., Thomas W. and Ehrenspeck, Helmet E., editor, 1992, *Geologic Map of the Topanga and Canoga Park (South 1/2) Quadrangles, Los Angeles County, California.* Dibblee Geological Foundation Map # DF-35.

Federal Emergency Management Agency (FEMA), 2008, FIRM Flood Map, Panels 06037C1285F and 06037C1295F, dated September 26, 2008.

Jennings, C.W. and Bryant, W.A. with Assistance from Saucedo, G.J., 2010, *Fault Activity Map of California.* California Geological Survey, California Geologic Data Map Series, Map No. 6.

Oakeshott, Gordon B., editor, 1975, *San Fernando, California, Earthquake of 9 February 1971.* California Division of Mines and Geology Bulletin 196

Pradel D., 1998, *Procedure to Evaluate Earthquake-Induced Settlements in Dry Sandy Soils, ASCE Journal of Geotechnical Engineering*, Vol. 124, No. 4, 364-368.

Southern California Earthquake Center (SCEC), 1999, *Recommended Procedures for Implementation of DMG Special Publication 117: Guidelines for Analyzing and Mitigating Liquefaction Hazards in California*.

United States Geological Survey (USGS) interactive web application, *Seismic Design Maps and Tools for Engineers,* <http://earthquake.usgs.gov/designmaps/us/application.php>

United States Geological Survey (USGS) interactive web application, *Unified Hazard Tool*. <https://earthquake.usgs.gov/hazards/interactive/>.

Wills, Christopher J. and Hitchcock, Christopher S., 1999, *Late Quaternary Sedimentation and Liquefaction Hazard in the San Fernando Valley, Los Angeles County, California:* Environmental & Engineering Geoscience, Volume V, Number 4, Winter 1999, pp. 419-439.

Youd, et al., 2001, *Liquefaction Resistance of Soils: Summary Report from the 1996 NCEER and 1998 NCEER/NSF Workshops on Evaluation of Liquefaction Resistance of Soils*, Journal of Geotechnical and Geoenvironmental Engineering, October 2001, p. 817-833.

Youd, T.L., Hansen, C.M., and Bartlett, S.F., 2002, *Revised Multilinear Regression Equations for Prediction of Lateral Spread Displacement.* Journal of Geotechnical and Geoenvironmental Engineering, December 2002.

APPENDIX A

LOGS OF SUBSURFACE DATA

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-1

Page Number: 1

Date(s) Excavated 4/11/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 728±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Description	Remarks
0 / 725		7	16.6	93	CL	ALLUVIUM: Brown silty CLAY (moist, medium stiff). Trace fine sand. Some calcium carbonate veinlets.	
5 / 720		12	21.4	98	SM	Yellowish brown silty fine SAND, trace clay (moist, medium dense).	
		28	26.0	98	CL	Brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
10 / 715		20	24.9	95	CL	Yellowish brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
15 / 710		14	21.6	98	CL	Brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
20 / 705		19	20.7	102	CL	Yellowish brown silty CLAY (very moist, very stiff).	
25 / 700		15	26.0	95	SM	Yellowish brown silty fine SAND (moist to wet, dense).	
30 / 695		7	32.0	88	CL	Yellowish brown silty CLAY (saturated, medium stiff). At 29'; groundwater.	
35 / 690						Total Depth 31' No Caving Observed Groundwater at 29' Backfilled with cuttings	

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-3

Page Number: 1

Date(s) Excavated 4/11/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 731'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (4")	
730						CL		ALLUVIUM: Brown silty CLAY (moist, medium stiff).	
			7	19.8	104				
						SM		Yellowish brown very silty, very fine SAND (moist, loose).	
						CL		Yellowish brown silty CLAY, trace fine sand (moist, stiff).	
5									
725			10	19.4	100				
			11	18.7	104	SC		Yellowish brown clayey fine SAND (moist, medium dense).	
						CL		Brown to yellowish brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
10									
720			21	19.7	102				
15									
715			11	23.7	96			At 15'; becoming stiff.	
20									
710			15	25.6	95			At 20'; becoming very moist, very stiff.	
25									
705			17	20.7	104	ML		Yellowish brown clayey SILT (moist, very stiff).	
						CL/ SC		Yellowish brown sandy CLAY (moist, very stiff) to clayey fine SAND (moist, medium dense).	
30			27	18.4	106				
700								Total Depth 31'	
								No Caving Observed	
								No Groundwater Encountered	
								Backfilled with cuttings Topped with Cold Patch	
35									
695									

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-4

Page Number: 1

Date(s) Excavated 4/12/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 732'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0						CL		ARTIFICIAL FILL: Yellowish brown to brown silty CLAY, some sand (damp, stiff).	% Sand: Silt: Clay
730			29	10.7	106	CL		Yellowish brown silty CLAY (moist, very stiff). Mottled. Some sand.	
5			12	11.8	93	ML		ALLUVIUM: Yellowish brown clayey SILT (damp, stiff).	@ 6' 25: 46: 29
725			18	12.5	89			Below 7'; becoming very stiff. Below 8'; calcium carbonate veinlets.	
10			21	15.1	90	CL		Yellowish brown silty CLAY (damp, stiff).	
720									
15			22	16.6	107				
715									
20			19	14.9	107				
710									
25			24	9.5	107	SM		Yellowish brown silty fine SAND (damp, medium dense). Friable.	@ 25' 54: 31: 15
705						SM		Light yellowish brown silty fine to coarse SAND, some fine to medium gravel (damp, medium dense).	
30			42	4.8	104				
700								Total Depth 31' No Caving Observed No Groundwater Encountered Backfilled with cuttings	
35									
695									

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-6

Page Number: 1

Date(s) Excavated 4/11/17	Logged By AK	Excavation Location See Geotechnical Map	Approximate Surface Elevation 732'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0						CL		ASPHALTIC CONCRETE (2") and BASE (2")	
								ARTIFICIAL FILL:	
730			9	20.9	98	CL		Brown silty CLAY (moist, soft).	
								ALLUVIUM: Brown silty CLAY, occasional gravel (moist, soft) .	
								At 3'; manganese oxide.	
						SC		Brown silty clayey fine SAND (moist, loose to medium dense). Increasing clay content with depth.	
5			8	21.9	84				
						CL		Brown silty CLAY with trace sand (damp, stiff). Some caliche.	
725			8	23.5	89				
						SM		Brown silty, clayey fine SAND (damp, medium dense).	
10			12	23.7	91				
						CL		Brown silty CLAY with manganese oxide staining (damp, stiff).	
720									
15			18	24.6	96			At 15'; veins of caliche.	
715									
20			17	24.5	94				
710									
25			13	22.6	101				
705						SM		Brown to yellowish brown clayey silty very fine to fine SAND (moist, medium dense).	
30			14	22.6	102				
700								Total Depth 31'	
								No Caving Observed	
								No Groundwater Encountered	
								Backfilled with cuttings	
35								Topped with Cold Patch	
695									

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-7

Page Number: 1

Date(s) Excavated 4/11/17	Logged By AK	Excavation Location See Geotechnical Map	Approximate Surface Elevation 732'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (5")	
						CL		ARTIFICIAL FILL: Brown silty CLAY (moist, soft to medium stiff).	
730			9	22.6	95	CL		ALLUVIUM: Brown silty CLAY (moist, soft to medium stiff). Some manganese oxide flecks.	
5			8	23.7	89				
725			8	23.5	97			At 7'; trace fine sand.	
10			11	23.1	91			At 10'; caliche veinlets.	
720									
15			13	25.3	95			At 15'; caliche veinlets.	
715									
20			15	31.9	89				
710									
25			17						
			14	7.1	96	SM		Yellowish brown silty very fine to fine SAND (damp, medium dense).	
705						CL		Brown silty CLAY (damp, medium stiff).	
30			12	20.4	102				
700								Total Depth 31' No Caving Observed No Groundwater Encountered Backfilled with cuttings. Topped with Cold Patch.	
35									
695									

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-8

Page Number: 1

Date(s) Excavated 4/11/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 730'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
730 0					SM		ASPHALTIC CONCRETE (3")	% Sand: Silt: Clay
							ARTIFICIAL FILL: Brown silty fine to coarse SAND with common gravel (moist, medium dense).	
		7	20.0	92	CL		ALLUVIUM: Yellowish brown silty CLAY (moist, medium stiff)	
725 5		11	16.5	96			At 5'; becoming stiff, very moist.	
		16	26.3	93			At 7'; becoming very stiff. Common calcium carbonate veinlets.	
720 10		5/6/7					At 10'; becoming stiff.	
		23	25.4	96			At 13'; becoming very stiff, moist.	
715 15		3/4/4			SM		Light yellowish brown silty fine SAND (damp, medium dense).	
		19	21.6	100	CL		Yellowish brown silty CLAY (moist, very stiff). Calcium carbonate veinlets.	
710 20		4/6/7					At 20'; becoming stiff.	
		20	21.5	101			At 23'; becoming very stiff.	
705 25		4/4/6					At 25'; becoming stiff, very moist.	
		22	21.4	102				
					SM		Yellowish brown silty fine SAND (moist, medium dense).	
700 30		3/5/5			CL		Yellowish brown silty CLAY (very moist, stiff).	
					SC		Yellowish brown clayey fine SAND (wet, medium dense). Seepage at 30½'.	
		21	22.2	103	ML		Yellowish brown sandy clayey SILT (wet to saturated, stiff).	@ 33' 32: 42: 26
695 35		1/2/4			CL		Yellowish brown silty CLAY (saturated, medium stiff). After sample at 35'; no groundwater.	
		14	35.5	89	CL		Gray silty CLAY (saturated, stiff). After sample at 38'; groundwater at 33½'.	

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-8

Elevation / Depth (ft.)	Bulk Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
690 — 40		1/2/3					At 40'; becoming medium stiff.	
		17	28.9	95			At 43'; becoming very stiff, water added inside auger.	
685 — 45		3/5/7			SC		Light yellowish brown clayey fine SAND (saturated, medium dense).	
		16	17.4	110	CL		Gray silty CLAY with calcium carbonate masses (saturated, very stiff).	
680 — 50		2/13/17			SC		Brown clayey fine to coarse SAND, some fine gravels (saturated, dense).	
675 — 55							Total Depth 51½' No Caving Observed Groundwater Encountered at 33½' Backfilled with cuttings. Topped with Cold Patch.	
670 — 60								
665 — 65								
660 — 70								
655 — 75								
650 — 80								

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-9

Page Number: 1

Date(s) Excavated 4/11/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 730'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
730 0								CONCRETE (5")	
						CL		ALLUVIUM: Yellowish brown silty CLAY (moist, stiff).	
			9	19.1	78				
						SC		Yellowish brown clayey fine SAND (moist, loose).	
						CL		Yellowish brown silty CLAY (moist, medium stiff).	
725 5			10	19.6	102				
			12	25.6	92				
720 10			29	25.3	97			Below 10'; becoming very stiff, common calcium carbonate veinlets.	
715 15			17	27.1	92				
710 20			16	25.8	90				
705 25			24	22.8	101				
700 30			45	17.3	110			At 30'; becoming hard.	
								Total Depth 31' No Caving Observed No Groundwater Encountered Backfilled with cuttings. Topped with Cold Patch.	
695 35									

Project: LAUSD - Reseda High School

SUBSURFACE LOG

Work Order: 2880-62-0-100

Excavation Number: B-11

Page Number: 1

Date(s) Excavated 4/11/17	Logged By CHD	Excavation Location See Geotechnical Map	Approximate Surface Elevation 731'±
Excavation Dimension 8"	Equipment Contractor 2R Drilling	Equipment Type Hollow Stem Auger	Hammer Data #140 Auto

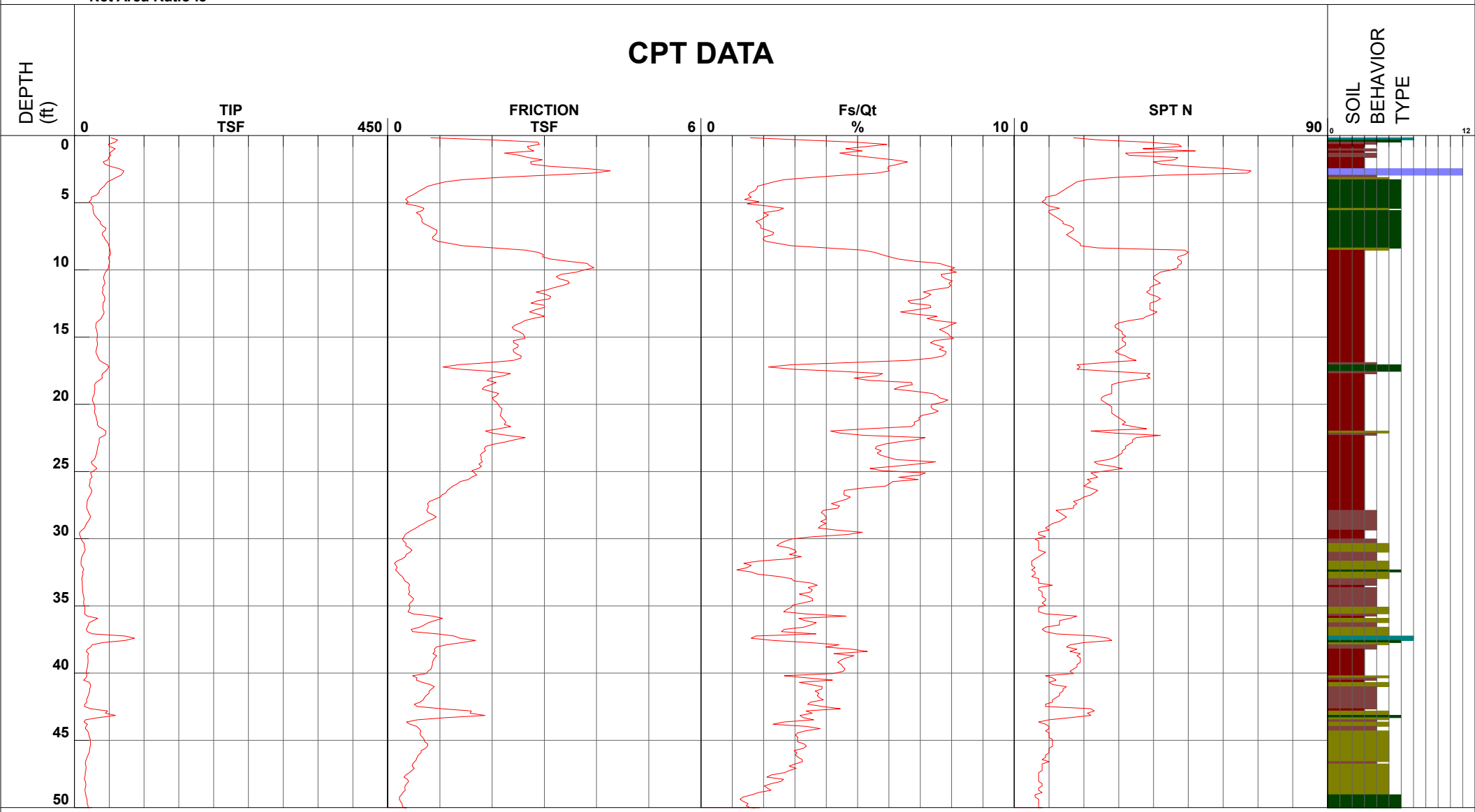
Elevation / Depth (ft.)	Bulk	Sample Type	Blow Counts	Moisture Content (% dry weight)	Dry Density (pcf)	USCS	Soil / Lithology	Description	Remarks
0								ASPHALTIC CONCRETE (3")	
730						CL		ALLUVIUM: Yellowish brown silty CLAY (moist, stiff).	
			11	21.6	102				
						SM		Yellowish brown silty fine SAND (moist, medium dense).	
						CL		Yellowish brown silty CLAY (very moist, stiff).	
5			10	31.1	86				
725			10	23.5	94				
						CL		Brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
10			25	28.4	91				
720						CL		Yellowish brown silty CLAY with calcium carbonate veinlets (moist, very stiff).	
15			21	30.5	89				
715									
20			17	21.8	98				
710									
25			27	20.5	105				
705									
30			35	18.7	110			At 30'; becoming hard.	
700								Total Depth 31' No Caving Observed No Groundwater Encountered Backfilled with cuttings. Topped with Cold Patch.	
35									
695									

Gorian & Associates

Project	Reseda High School	Operator	RC-JM	Filename	SDF(711).cpt
Job Number	2880-62-0-100	Cone Number	DDG1350	GPS	
Hole Number	CPT-02	Date and Time	4/12/2017 8:44:49 AM	Maximum Depth	51.18 ft
EST GW Depth During Test		31.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(711).cpt
CPT Date: 4/12/2017 8:44:49 AM
GW During Test: 31 ft

Sounding ID: CPT-02
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	* qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	* Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	* SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	* Fin Ic %	* Ic SBT Indx	Nk -	* Vol Strn %	* Cycl SStn %
0.33	61.9	183.9	61.9	2.0	0.3	3.2	5	silty SAND to sandy SILT	120	3.0	21	33	67	48	-	-	21	2.27	16	N/A	N/A
0.49	58.7	228.2	58.7	2.9	0.3	4.9	9	very stiff fine SOIL	120	1.0	59	94	-	-	2.1	9.9	27	2.43	30	N/A	N/A
0.66	48.9	234.3	48.9	2.9	0.1	5.9	9	very stiff fine SOIL	120	1.0	49	78	-	-	1.7	9.9	33	2.54	30	N/A	N/A
0.82	50.6	221.8	50.6	2.7	0.3	5.3	9	very stiff fine SOIL	120	1.0	51	81	-	-	1.8	9.9	30	2.49	30	N/A	N/A
0.98	58.5	220.0	58.5	2.7	-0.8	4.6	9	very stiff fine SOIL	120	1.0	58	94	-	-	2.1	9.9	27	2.41	30	N/A	N/A
1.15	54.4	226.3	54.4	2.8	-1.4	5.2	9	very stiff fine SOIL	120	1.0	54	87	-	-	1.9	9.9	29	2.46	30	N/A	N/A
1.31	50.5	199.2	50.5	2.2	-0.8	4.4	4	clayy SILT to silty CLAY	115	2.0	25	41	-	-	3.6	9.9	28	2.43	15	N/A	N/A
1.48	52.1	213.2	52.1	2.5	-0.1	4.8	4	clayy SILT to silty CLAY	115	2.0	26	42	-	-	3.7	9.9	29	2.45	15	N/A	N/A
1.64	49.1	223.6	49.1	2.7	-0.1	5.5	9	very stiff fine SOIL	120	1.0	49	79	-	-	1.7	9.9	31	2.51	30	N/A	N/A
1.80	48.2	237.8	48.2	3.0	-3.1	6.1	9	very stiff fine SOIL	120	1.0	48	77	-	-	1.7	9.9	33	2.56	30	N/A	N/A
1.97	41.5	-	41.4	2.7	-3.1	6.6	9	very stiff fine SOIL	120	1.0	42	67	-	-	1.5	9.9	36	2.62	30	N/A	N/A
2.13	43.6	230.3	43.6	2.8	-2.8	6.3	9	very stiff fine SOIL	120	1.0	44	70	-	-	1.5	9.9	35	2.59	30	N/A	N/A
2.30	52.0	243.3	51.9	3.1	-2.7	6.0	9	very stiff fine SOIL	120	1.0	52	83	-	-	1.8	9.9	32	2.53	30	N/A	N/A
2.46	64.0	270.6	63.9	3.8	-2.7	6.0	9	very stiff fine SOIL	120	1.0	64	100	-	-	2.3	9.9	30	2.47	30	N/A	N/A
2.62	70.9	287.5	70.8	4.3	-3.1	6.0	9	very stiff fine SOIL	120	1.0	71	100	-	-	2.5	9.9	29	2.45	30	N/A	N/A
2.79	69.6	273.4	69.5	3.9	-3.0	5.7	9	very stiff fine SOIL	120	1.0	70	100	-	-	2.5	9.9	28	2.43	30	N/A	N/A
2.95	67.0	235.0	66.9	3.1	-2.4	4.6	9	very stiff fine SOIL	120	1.0	67	100	-	-	2.4	9.9	25	2.37	30	N/A	N/A
3.12	60.2	192.2	60.2	2.1	-1.7	3.6	5	silty SAND to sandy SILT	120	3.0	20	32	66	46	-	-	23	2.31	16	N/A	N/A
3.28	54.2	156.1	54.2	1.4	-0.1	2.7	5	silty SAND to sandy SILT	120	3.0	18	29	62	46	-	-	21	2.25	16	N/A	N/A
3.45	47.6	137.0	47.6	1.1	0.2	2.3	5	silty SAND to sandy SILT	120	3.0	16	25	58	45	-	-	21	2.25	16	N/A	N/A
3.61	44.9	125.6	44.9	0.9	0.1	2.1	5	silty SAND to sandy SILT	120	3.0	15	24	56	44	-	-	20	2.23	16	N/A	N/A
3.77	42.7	115.0	42.7	0.8	0.2	1.8	5	silty SAND to sandy SILT	120	3.0	14	23	55	44	-	-	19	2.20	16	N/A	N/A
3.94	38.9	109.4	38.9	0.7	0.3	1.8	5	silty SAND to sandy SILT	120	3.0	13	21	51	43	-	-	20	2.23	16	N/A	N/A
4.10	35.9	103.5	35.9	0.6	0.3	1.7	5	silty SAND to sandy SILT	120	3.0	12	19	49	43	-	-	21	2.25	16	N/A	N/A
4.27	35.0	98.1	35.0	0.5	0.3	1.6	5	silty SAND to sandy SILT	120	3.0	12	19	48	42	-	-	20	2.23	16	N/A	N/A
4.43	31.9	92.6	31.9	0.5	0.3	1.5	5	silty SAND to sandy SILT	120	3.0	11	17	45	41	-	-	21	2.25	16	N/A	N/A
4.59	24.2	84.5	24.2	0.4	0.4	1.6	5	silty SAND to sandy SILT	120	3.0	8	13	36	40	-	-	25	2.37	16	N/A	N/A
4.76	24.7	80.2	24.7	0.3	0.4	1.4	5	silty SAND to sandy SILT	120	3.0	8	13	36	40	-	-	23	2.32	16	N/A	N/A
4.92	21.3	86.4	21.3	0.4	0.4	1.9	5	silty SAND to sandy SILT	120	3.0	7	11	32	39	-	-	28	2.45	16	N/A	N/A
5.09	24.1	81.6	24.1	0.4	0.4	1.5	5	silty SAND to sandy SILT	120	3.0	8	13	36	39	-	-	24	2.35	16	N/A	N/A
5.25	26.8	100.8	26.8	0.6	0.4	2.1	5	silty SAND to sandy SILT	120	3.0	9	14	39	40	-	-	27	2.41	16	N/A	N/A
5.41	26.5	112.2	26.5	0.7	0.3	2.7	4	clayy SILT to silty CLAY	115	2.0	13	21	-	-	1.8	9.9	30	2.47	15	N/A	N/A
5.58	26.9	109.2	26.9	0.7	0.3	2.5	5	silty SAND to sandy SILT	120	3.0	9	14	39	39	-	-	28	2.45	16	N/A	N/A
5.74	27.4	98.9	27.4	0.5	0.3	2.0	5	silty SAND to sandy SILT	120	3.0	9	15	40	39	-	-	26	2.39	16	N/A	N/A
5.91	28.9	104.9	28.9	0.6	0.3	2.2	5	silty SAND to sandy SILT	120	3.0	10	15	42	39	-	-	26	2.39	16	N/A	N/A
6.07	31.4	105.6	31.4	0.6	0.3	2.1	5	silty SAND to sandy SILT	120	3.0	10	17	44	40	-	-	24	2.34	16	N/A	N/A
6.23	34.2	106.8	34.2	0.7	0.2	2.0	5	silty SAND to sandy SILT	120	3.0	11	18	47	40	-	-	23	2.30	16	N/A	N/A
6.40	37.2	105.5	37.2	0.7	0.2	1.8	5	silty SAND to sandy SILT	120	3.0	12	19	49	40	-	-	21	2.25	16	N/A	N/A
6.56	37.5	108.0	37.5	0.7	0.2	1.9	5	silty SAND to sandy SILT	120	3.0	12	19	49	40	-	-	21	2.27	16	N/A	N/A
6.73	40.7	113.3	40.7	0.8	0.2	1.9	5	silty SAND to sandy SILT	120	3.0	14	21	51	41	-	-	21	2.26	16	N/A	N/A
6.89	45.2	118.3	45.2	0.9	0.2	1.9	5	silty SAND to sandy SILT	120	3.0	15	23	54	41	-	-	20	2.22	16	N/A	N/A
7.05	44.4	122.6	44.4	0.9	0.2	2.2	5	silty SAND to sandy SILT	120	3.0	15	22	53	41	-	-	21	2.27	16	N/A	N/A
7.22	40.5	121.9	40.5	0.9	0.2	2.3	5	silty SAND to sandy SILT	120	3.0	14	20	50	40	-	-	23	2.33	16	N/A	N/A
7.38	40.0	119.7	40.0	0.9	0.2	2.3	5	silty SAND to sandy SILT	120	3.0	13	20	49	40	-	-	24	2.33	16	N/A	N/A
7.55	42.5	115.5	42.5	0.9	0.2	2.0	5	silty SAND to sandy SILT	120	3.0	14	20	51	40	-	-	22	2.28	16	N/A	N/A
7.71	43.8	115.2	43.8	0.9	0.2	2.0	5	silty SAND to sandy SILT	120	3.0	15	21	52	40	-	-	21	2.26	16	N/A	N/A
7.87	46.5	120.6	46.5	1.0	0.2	2.1	5	silty SAND to sandy SILT	120	3.0	16	22	53	40	-	-	21	2.26	16	N/A	N/A
8.04	48.6	133.9	48.6	1.2	0.1	2.5	5	silty SAND to sandy SILT	120	3.0	16	23	54	41	-	-	23	2.31	16	N/A	N/A
8.20	49.4	144.9	49.4	1.4	0.1	2.9	5	silty SAND to sandy SILT	120	3.0	16	23	55	41	-	-	24	2.35	16	N/A	N/A
8.37	50.6	175.8	50.6	2.0	0.1	4.0	4	clayy SILT to silty CLAY	115	2.0	25	35	-	-	3.5	9.9	29	2.45	15	N/A	N/A
8.53	51.1	204.6	51.1	2.6	0.0	5.2	4	clayy SILT to silty CLAY	115	2.0	26	35	-	-	3.6	9.9	32	2.53	15	N/A	N/A
8.69	52.0	214.5	52.0	2.9	-0.1	5.6	4	clayy SILT to silty CLAY	115	2.0	26	35	-	-	3.6	9.9	33	2.55	15	N/A	N/A
8.86	51.7	218.2	51.7	3.0	-0.3	5.8	9	very stiff fine SOIL	120	1.0	52	69	-	-	1.8	9.9	34	2.57	30	N/A	N/A
9.02	49.2	233.3	49.2	3.0	-0.3	6.1	9	very stiff fine SOIL	120	1.0	49	75	-	-	1.7	9.9	34	2.57	30	N/A	N/A
9.19	49.5	238.7	49.5	3.1	-0.3	6.4	9	very stiff fine SOIL	120	1.0	49	74	-	-	1.7	9.9	35	2.58	30	N/A	N/A
9.35	50.6	-	50.6	3.4	-0.3	6.9	9	very stiff fine SOIL	120	1.0	51	75	-	-	1.8	9.9	36	2.61	30	N/A	N/A
9.51	50.1	-	50.1	3.8	-0.1	7.7	9	very stiff fine SOIL	120	1.0	50	80	-	-	1.8	9.9	37	2.63	30	N/A	N/A
9.68	49.4	-	49.4	3.9	0.0	7.9	9	very stiff fine SOIL	120	1.0	49	79	-	-	1.7	9.9	37	2.64	30	N/A	N/A
9.84	48.8	-	48.8	4.0	-0.2	8.2	9	very stiff fine SOIL	120	1.0	49	78	-	-	1.7	9.9	38	2.66	30	N/A	N/A
10.01	47.3	-	47.3	3.8	-0.6	8.0	9	very stiff fine SOIL	120	1.0	47	76	-	-	1.7	9.9	38	2.66	30	N/A	N/A
10.17	44.3	-	44.3	3.6	-1.1	8.3	9	very stiff fine SOIL	120	1.0	44	71	-	-	1.5	9.9	40	2.68	30	N/A	N/A
10.34	43.3	-	43.3	3.3	-1.1	7.8	9	very stiff fine SOIL	120	1.0	43	69	-	-	1.5	9.9	39	2.67	30	N/A	N/A
10.50	42.0	-	42.0	3.2	-0.8	7.8	9	very stiff fine SOIL	120	1.0	42	67	-	-	1.5	9.9	39	2.68	30	N/A	N/A
10.66	42.0	-	42.0	3.3	-0.3	7.9	9	very stiff fine SOIL	120	1.0	42	66	-	-	1.5	9.9	40	2.69	30	N/A	N/A
10.83	43.0	-	43.0	3.5	-0.6	8.1	9	very stiff fine SOIL	120	1.0	43	67	-	-	1.5	9.9	40	2.70	30	N/A	N/A
10.99	43.9	-	43.9	3.5	-0.4	8.0	9	very stiff fine SOIL	120	1.0	44	67	-	-	1.5	9.9	40	2.69	30	N/A	N/A
11.16	42.1	-	42.1	3.4	-0.7	8.1	9	very stiff fine SOIL	120	1.0	42	63	-	-	1.5	9.9	41	2.71	30	N/A	N/A
11.32	40.4	-	40.4	3.2	-0.1	8.0	3	silty CLAY to CLAY	115	1.5	27	40	-	-	2.8	9.9	42	2.72	15	N/A	N/A
11.48	41.2	-	41.2	3.1	-1.0	7.5	3	silty CLAY to CLAY	115	1.5	27	40	-	-	2.9	9.9	40	2.70	15	N/A	N/A
11.65	40.0	-	40.0	2.8	-1.2	7.2	3	silty CLAY to CLAY	115	1.5	27	38	-	-	2.8	9.9	40	2.70	15	N/A	N/A
11.81	41.2	-	41.2	3.0	-0.1	7.5	3	silty CLAY to CLAY	115	1.5	27	39	-	-	2.9	9.9	41	2.70	15	N/A	N/A
11.98	43.2	-	43.2	3.1	0.1	7.4	3	silty CLAY to CLAY	115	1.5	29	40	-	-	3.0	9.9	40	2.69	15	N/A	N/A
12.14	43.8	-	43.8	3.1	-0.8	7.2	3	silty CLAY to CLAY	115	1.5	29	40	-	-	3.0	9.9	39	2.68	15	N/A	N/A
12.30	43.3	-	43.2	2.9	-0.9	6.7	3	silty CLAY to CLAY	115	1.5	29	39	-	-	3.0	9.9	39	2.67	15	N/A	N/A
12.47	41.1	-	41.1	2.7	-0.2	6.8	3	silty CLAY to CLAY	115	1.5	27	37	-	-	2.8	9.9	40	2.69	15	N/A	N/A
12.63	41.0	-	41.0	3.0	-0.2	7.5	3	silty CLAY to CLAY	115	1.5	27	36	-	-	2.8	9.9	42	2.72	15	N/A	N/A
12.80	40.9	-	40.9	3.0	-0.6	7.5	3	silty CLAY to CLAY	115	1.5	27	36	-	-	2.8	9.9	42	2.73	15	N/A	N/A
12.96	41.0	-	41.0	2.8	-0.2	7.0	3	silty CLAY to CLAY	115	1.5	27	35	-	-	2.8	9.9	41	2.71	15	N/A	N/A
13.12	42.7	-	42.6	2.7	-0.4	6.5	3	silty CLAY to CLAY	115	1.5	28	36	-	-	3.0	9.9	39	2.68	15	N/A	N/A
13.29	42.1	-	42.1	2.9	-0.4	6.9	3	silty CLAY to CLAY	115	1.5	28	36	-	-	2.9	9.9	41	2.70	15	N/A	N/A
13.45	39.9	-	39.9	3.0	-0.5	7.7	3	silty CLAY to CLAY	115	1.5	27	33	-	-	2.8	9.9	44	2.76	15	N/A	N/A
13.62	38.5	-	38.5	2.8	-0.7	7.4	3	silty CLAY to CLAY	115	1.5	26	32	-	-	2.7	9.9	44	2.76	15	N/A	N/A
13.78	34.8	-	34.8	2.6	-0.6	7.7	3	silty CLAY to CLAY	115	1.5	23	28	-	-	2.4	9.9	46	2.80	15	N/A	N/A
13.94	31.3	-	31.3	2.5	-0.4	8.4	3	silty CLAY to CLAY	115	1.5	21	25	-	-	2.2	9.9	50	2.87	15	N/A	N/A
14.11	30.7	-	30.7	2.4	-0.7	8.2	3	silty CLAY to CLAY	115	1.5	20	24	-	-	2.1	9.9	50	2.87	15	N/A	N/A
14.27	30.5	-	30.5	2.4	-0.9	8.0	3	silty CLAY to CLAY	115	1.5	20	24	-	-	2.1	9.9	50	2.87	15	N/A	N/A
14.44	31.7	-	31.7	2.4	-0.5	7.8	3	silty CLAY to CLAY	115	1.5	21	25	-	-	2.2	9.9	49	2.85	15	N/A	N/A
14.60	32.4	-	32.4	2.5	-0.4	8.0	3	silty CLAY to CLAY	115	1.5	22	25	-	-	2.2	9.9	49	2.85	15	N/A	N/A
14.76	32.9	-	32.8	2.6	-0.3	8.1	3	silty CLAY to CLAY	115	1.5	22	25	-	-	2.3	9.9	49	2.86	15	N/A	N/A
14.93	33.0	-	32.9	2.6	-0.5	8.2	3	silty CLAY to CLAY	115	1.5	22	25	-	-	2.3	9.9	50	2.86	15	N/A	N/A
15.09	32.6	-	32.6	2.6	-0.9	8.3	3	silty CLAY to CLAY	115	1.5	22	24	-	-	2.2	9.9	50	2.87	15	N/A	N/A
15.26	32.3	-	32.2	2.4	-1.3	7.7	3	silty CLAY to CLAY	115	1.5	22	24	-	-	2.2	9.9	49	2.86	15	N/A	N/A
15.42	33.0	-	33.0	2.4	-0.9	7.5	3	silty CLAY to CLAY	115	1.5	22	24	-	-	2.3	9.9	49	2.85	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

Project ID: Gorian & Associates
Data File: SDF(711).cpt
CPT Date: 4/12/2017 8:44:49 AM
GW During Test: 31 ft

Sounding ID: CPT-02
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	* qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	* Mat Typ Zon	* Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	* SPT R-N1 60%	* Rel Den %	* Ftn Ang deg	Und Shr tsf	OCR -	* Fin Ic %	* Ic SBT Indx	Nk -	* Vol Strn %	* Cycl SStn %
15.58	33.3	-	33.3	2.5	-0.9	7.7	3	silty CLAY to CLAY	115	1.5	22	24	-	-	2.3	9.9	49	2.85	15	N/A	N/A
15.75	32.2	-	32.2	2.5	0.0	8.0	3	silty CLAY to CLAY	115	1.5	21	23	-	-	2.2	9.9	51	2.88	15	N/A	N/A
15.91	31.6	-	31.6	2.4	0.2	7.8	3	silty CLAY to CLAY	115	1.5	21	22	-	-	2.2	9.9	51	2.88	15	N/A	N/A
16.08	30.8	-	30.8	2.4	0.2	8.1	3	silty CLAY to CLAY	115	1.5	21	22	-	-	2.1	9.9	52	2.90	15	N/A	N/A
16.24	31.6	-	31.6	2.5	0.1	8.0	3	silty CLAY to CLAY	115	1.5	21	22	-	-	2.2	9.9	52	2.90	15	N/A	N/A
16.40	33.1	-	33.1	2.6	-0.3	8.0	3	silty CLAY to CLAY	115	1.5	22	23	-	-	2.3	9.9	51	2.88	15	N/A	N/A
16.57	34.6	-	34.6	2.5	-1.0	7.6	3	silty CLAY to CLAY	115	1.5	23	24	-	-	2.4	9.9	49	2.85	15	N/A	N/A
16.73	36.3	-	36.3	2.4	-1.4	6.8	3	silty CLAY to CLAY	115	1.5	24	25	-	-	2.5	9.9	47	2.81	15	N/A	N/A
16.90	40.9	-	40.9	2.0	-0.2	4.9	3	silty CLAY to CLAY	115	1.5	27	27	-	-	2.8	9.9	39	2.67	15	N/A	N/A
17.06	47.2	122.5	47.2	1.4	0.0	2.9	4	clayy SILT to silty CLAY	115	2.0	24	23	-	-	3.3	9.9	30	2.48	15	N/A	N/A
17.23	49.3	106.8	49.3	1.1	0.1	2.2	5	silty SAND to sandy SILT	120	3.0	16	16	42	36	-	-	26	2.38	16	N/A	N/A
17.39	47.3	123.6	47.3	1.4	0.1	3.0	4	clayy SILT to silty CLAY	115	2.0	24	23	-	-	3.3	9.9	30	2.49	15	N/A	N/A
17.55	44.6	-	44.6	2.0	0.0	4.6	4	clayy SILT to silty CLAY	115	2.0	22	22	-	-	3.1	9.9	37	2.64	15	N/A	N/A
17.72	40.5	-	40.5	2.3	0.0	5.9	3	silty CLAY to CLAY	115	1.5	27	26	-	-	2.8	9.9	43	2.75	15	N/A	N/A
17.88	39.3	-	39.3	2.2	-0.2	5.8	3	silty CLAY to CLAY	115	1.5	26	25	-	-	2.7	9.9	43	2.75	15	N/A	N/A
18.05	40.3	-	40.3	2.0	0.1	5.0	3	silty CLAY to CLAY	115	1.5	27	25	-	-	2.8	9.9	41	2.70	15	N/A	N/A
18.21	35.7	-	35.7	1.9	0.1	5.5	3	silty CLAY to CLAY	115	1.5	24	22	-	-	2.4	9.9	44	2.77	15	N/A	N/A
18.37	30.9	-	30.9	2.1	0.0	7.0	3	silty CLAY to CLAY	115	1.5	21	19	-	-	2.1	9.1	52	2.89	15	N/A	N/A
18.54	29.3	-	29.3	2.0	-0.2	7.0	3	silty CLAY to CLAY	115	1.5	20	18	-	-	2.0	8.5	53	2.92	15	N/A	N/A
18.70	29.1	-	29.1	1.9	-1.0	6.6	3	silty CLAY to CLAY	115	1.5	19	18	-	-	2.0	8.4	52	2.90	15	N/A	N/A
18.87	29.4	-	29.4	1.8	-0.1	6.4	3	silty CLAY to CLAY	115	1.5	20	18	-	-	2.0	8.4	52	2.89	15	N/A	N/A
19.03	28.8	-	28.8	2.0	-0.4	7.1	3	silty CLAY to CLAY	115	1.5	19	17	-	-	2.0	8.2	54	2.93	15	N/A	N/A
19.19	28.8	-	28.8	2.1	-0.9	7.7	3	silty CLAY to CLAY	115	1.5	19	17	-	-	2.0	8.1	56	2.96	15	N/A	N/A
19.36	27.6	-	27.6	2.1	-1.4	7.9	3	silty CLAY to CLAY	115	1.5	18	16	-	-	1.9	7.7	57	2.98	15	N/A	N/A
19.52	26.4	-	26.3	2.0	-2.1	8.0	3	silty CLAY to CLAY	115	1.5	18	15	-	-	1.8	7.3	59	3.00	15	N/A	N/A
19.69	25.7	-	25.7	2.0	-2.0	8.2	3	silty CLAY to CLAY	115	1.5	17	15	-	-	1.7	7.0	60	3.03	15	N/A	N/A
19.85	27.1	-	27.0	2.1	-1.3	8.1	3	silty CLAY to CLAY	115	1.5	18	15	-	-	1.8	7.3	59	3.01	15	N/A	N/A
20.01	28.7	-	28.7	2.1	-0.9	7.7	3	silty CLAY to CLAY	115	1.5	19	16	-	-	1.9	7.7	57	2.97	15	N/A	N/A
20.18	29.2	-	29.2	2.1	-0.7	7.6	3	silty CLAY to CLAY	115	1.5	19	16	-	-	2.0	7.8	56	2.97	15	N/A	N/A
20.34	29.6	-	29.6	2.2	-1.6	7.7	3	silty CLAY to CLAY	115	1.5	20	17	-	-	2.0	7.8	57	2.97	15	N/A	N/A
20.51	28.8	-	28.7	2.2	-1.9	7.9	3	silty CLAY to CLAY	115	1.5	19	16	-	-	1.9	7.5	58	2.99	15	N/A	N/A
20.67	29.3	-	29.2	2.2	-1.2	7.7	3	silty CLAY to CLAY	115	1.5	20	16	-	-	2.0	7.6	57	2.98	15	N/A	N/A
20.83	30.6	-	30.5	2.2	-1.4	7.3	3	silty CLAY to CLAY	115	1.5	20	17	-	-	2.1	7.9	55	2.95	15	N/A	N/A
21.00	31.5	-	31.5	2.2	-1.1	7.2	3	silty CLAY to CLAY	115	1.5	21	17	-	-	2.1	8.1	55	2.94	15	N/A	N/A
21.16	32.0	-	32.0	2.2	-0.8	7.2	3	silty CLAY to CLAY	115	1.5	21	17	-	-	2.2	8.2	54	2.94	15	N/A	N/A
21.33	33.3	-	33.3	2.3	-0.6	7.1	3	silty CLAY to CLAY	115	1.5	22	18	-	-	2.3	8.4	53	2.92	15	N/A	N/A
21.49	32.7	-	32.7	2.2	-0.7	7.1	3	silty CLAY to CLAY	115	1.5	22	17	-	-	2.2	8.2	54	2.93	15	N/A	N/A
21.65	35.0	-	35.0	2.4	-0.8	7.0	3	silty CLAY to CLAY	115	1.5	23	18	-	-	2.4	8.8	52	2.91	15	N/A	N/A
21.82	40.2	-	40.2	2.1	-1.2	5.5	3	silty CLAY to CLAY	115	1.5	27	21	-	-	2.7	9.9	45	2.79	15	N/A	N/A
21.98	45.3	-	45.2	1.9	-3.0	4.3	4	clayy SILT to silty CLAY	115	2.0	23	18	-	-	3.1	9.9	39	2.68	15	N/A	N/A
22.15	45.1	-	45.1	2.0	0.0	4.6	3	silty CLAY to CLAY	115	1.5	30	23	-	-	3.1	9.9	41	2.70	15	N/A	N/A
22.31	43.9	-	43.9	2.3	-0.1	5.4	3	silty CLAY to CLAY	115	1.5	29	22	-	-	3.0	9.9	44	2.76	15	N/A	N/A
22.47	36.8	-	36.8	2.6	-0.1	7.4	3	silty CLAY to CLAY	115	1.5	25	19	-	-	2.5	8.9	53	2.92	15	N/A	N/A
22.64	35.4	-	35.4	2.4	0.0	7.2	3	silty CLAY to CLAY	115	1.5	24	18	-	-	2.4	8.5	54	2.92	15	N/A	N/A
22.80	35.9	-	35.9	2.3	0.1	6.5	3	silty CLAY to CLAY	115	1.5	24	18	-	-	2.4	8.5	52	2.89	15	N/A	N/A
22.97	34.7	-	34.7	2.0	0.4	6.1	3	silty CLAY to CLAY	115	1.5	23	17	-	-	2.4	8.2	51	2.89	15	N/A	N/A
23.13	33.5	-	33.5	1.9	0.5	5.8	3	silty CLAY to CLAY	115	1.5	22	16	-	-	2.3	7.8	51	2.89	15	N/A	N/A
23.30	33.3	-	33.3	1.9	0.4	5.8	3	silty CLAY to CLAY	115	1.5	22	16	-	-	2.3	7.7	51	2.89	15	N/A	N/A
23.46	32.6	-	32.6	1.9	0.5	6.0	3	silty CLAY to CLAY	115	1.5	22	16	-	-	2.2	7.5	53	2.91	15	N/A	N/A
23.62	32.1	-	32.1	1.8	0.7	5.9	3	silty CLAY to CLAY	115	1.5	21	15	-	-	2.2	7.3	53	2.91	15	N/A	N/A
23.79	31.0	-	31.0	1.8	0.9	6.0	3	silty CLAY to CLAY	115	1.5	21	15	-	-	2.1	7.0	54	2.93	15	N/A	N/A
23.95	30.0	-	30.1	1.8	0.9	6.3	3	silty CLAY to CLAY	115	1.5	20	14	-	-	2.0	6.7	56	2.96	15	N/A	N/A
24.12	28.7	-	28.7	1.8	0.7	6.6	3	silty CLAY to CLAY	115	1.5	19	14	-	-	1.9	6.4	58	2.99	15	N/A	N/A
24.28	24.3	-	24.2	1.8	-0.5	7.9	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.3	66	3.10	15	N/A	N/A
24.44	25.4	-	25.4	1.7	-1.2	7.3	3	silty CLAY to CLAY	115	1.5	17	12	-	-	1.7	5.5	63	3.06	15	N/A	N/A
24.61	29.1	-	29.1	1.8	-0.4	6.5	3	silty CLAY to CLAY	115	1.5	19	13	-	-	2.0	6.3	58	2.99	15	N/A	N/A
24.77	32.2	-	32.2	1.7	-0.9	5.6	3	silty CLAY to CLAY	115	1.5	21	15	-	-	2.2	7.0	53	2.91	15	N/A	N/A
24.94	27.9	-	27.9	1.6	-1.1	6.1	3	silty CLAY to CLAY	115	1.5	19	13	-	-	1.9	6.0	57	2.99	15	N/A	N/A
25.10	23.2	-	23.2	1.7	-0.2	7.6	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.5	4.9	67	3.12	15	N/A	N/A
25.26	24.4	-	24.4	1.7	0.0	7.4	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.1	65	3.09	15	N/A	N/A
25.43	25.4	-	25.4	1.6	0.2	6.7	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.3	62	3.05	15	N/A	N/A
25.59	22.3	-	22.3	1.5	0.2	7.4	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.6	68	3.13	15	N/A	N/A
25.76	22.6	-	22.6	1.4	0.4	6.6	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.6	65	3.09	15	N/A	N/A
25.92	22.1	-	22.1	1.3	0.5	6.5	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.5	65	3.10	15	N/A	N/A
26.08	21.2	-	21.2	1.2	0.5	6.4	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.4	4.3	66	3.11	15	N/A	N/A
26.25	23.4	-	23.4	1.2	0.8	5.5	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.5	4.7	61	3.03	15	N/A	N/A
26.41	25.0	-	25.0	1.1	1.0	4.9	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.0	57	2.98	15	N/A	N/A
26.58	24.5	-	24.5	1.1	1.1	4.9	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	4.9	58	2.99	15	N/A	N/A
26.74	22.9	-	22.9	1.0	1.1	4.9	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.5	60	3.02	15	N/A	N/A
26.90	21.0	-	21.1	1.0	1.2	5.1	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.4	4.1	63	3.06	15	N/A	N/A
27.07	19.4	-	19.5	0.9	1.2	5.1	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.3	3.7	65	3.09	15	N/A	N/A
27.23	18.2	-	18.2	0.8	1.2	4.8	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.4	66	3.10	15	N/A	N/A
27.40	18.3	-	18.4	0.8	1.2	4.6	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.4	65	3.09	15	N/A	N/A
27.56	17.7	-	17.7	0.8	1.2	4.9	3	silty CLAY to CLAY	115	1.5	12	7	-	-	1.1	3.3	67	3.12	15	N/A	N/A
27.72	17.7	-	17.7	0.8	1.3	4.8	3	silty CLAY to CLAY	115	1.5	12	7	-	-	1.1	3.3	67	3.12	15	N/A	N/A
27.89	19.2	-	19.2	0.7	1.3	4.3	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.2	3.5	63	3.06	15	N/A	N/A
28.05	20.2	-	20.2	0.8	1.3	4.2	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.3	3.7	61	3.04	15	N/A	N/A
28.22	22.0	-	22.1	0.9	1.4	4.2	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.4	4.1	59	3.01	15	N/A	N/A
28.38	23.3	-	23.3	0.9	1.5	4.3	3	silty CLAY to CLAY	115	1.5	16	9	-	-	1.5	4.3	58	3.00	15	N/A	N/A
28.54	21.7	-	21.7	0.9	1.5	4.3	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.4	4.0	60	3.03	15	N/A	N/A
28.71	19.7	-	19.7	0.8	1.6	4.2	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.3	3.5	62	3.06	15	N/A	N/A
28.87	17.4	-	17.4	0.7	1.5	4.4	3	silty CLAY to CLAY	115	1.5	12	7	-	-	1.1	3.1	67	3.12	15	N/A	N/A
29.04	15.9	-	15.9	0.6	1.6	4.3	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.0	2.8	69	3.15	15	N/A	N/A
29.20	14.5	-	14.5	0.5	1.6	4.2	3	silty CLAY to CLAY	115	1.5	10	6	-	-	0.9	2.5	72	3.18	15	N/A	N/A
29.36	10.9	-	10.9	0.5	1.6	5.1	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.8	86	3.35	15	N/A	N/A
29.53	7.6	-	7.7	0.4	1.5	6.7	2	Organic SOILS - Peats	100	1.0	8	4	-	-	0.6	1.1	95	3.58	10	N/A	N/A
29.69	7.2	-	7.2	0.3	1.5	6.1	2	Organic SOILS - Peats	100	1.0	7	4	-	-	0.6	1.0	95	3.58	10	N/A	N/A
29.86	8.9	-	8.9	0.3	1.6	4.4	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.4	91	3.41	15	N/A	N/A
30.02	9.7	-	9.7	0.3	1.6	3.6	3	silty CLAY to CLAY	115	1.5	6	4	-	-	0.6	1.5	83	3.32	15	N/A	N/A
30.19	11.4	-	11.4	0.3	1.7	3.2	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	75	3.23	15	N/A	N/A
30.35	14.1	-	14.1	0.4	1.7	2.9	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.3	67	3.12	15	N/A	N/A
30.51	14.2	-	14.2	0.3	1.7	2.8	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.3	66	3.11	15	N/A	N/A
30.68	14.8	-	14.8	0.4	1.8	3.2	3	silty CLAY to CLAY	115	1.5	10	6	-	-	0.9	2.4	67	3.13	15	N/A	N/A
30.84	15.5	-	15.5	0.5	1.8	3.4	3	silty CLAY to CLAY	115	1.5	10	6	-	-	1.0	2.5	67	3.12	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Project ID: Gorian & Associates
Data File: SDF(711).cpt
CPT Date: 4/12/2017 8:44:49 AM
GW During Test: 31 ft

Sounding ID: CPT-02
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
31.01	14.1	-	14.1	0.4	1.8	3.5	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.2	71	3.17	15	-	-
31.17	12.5	-	12.5	0.4	1.9	3.3	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	2.0	74	3.21	15	-	-
31.33	10.7	-	10.7	0.3	1.8	3.9	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.6	82	3.32	15	-	-
31.50	9.9	-	9.9	0.3	1.9	3.5	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	83	3.33	15	-	-
31.66	9.6	-	9.6	0.2	1.9	2.3	3	silty CLAY to CLAY	115	1.5	6	4	-	-	0.5	1.4	77	3.25	15	-	-
31.83	9.5	-	9.6	0.1	2.0	1.7	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.4	72	3.19	15	-	-
31.99	9.8	-	9.8	0.2	2.0	2.0	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	74	3.21	15	-	-
32.15	12.3	-	12.4	0.2	2.1	1.7	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.9	64	3.08	15	-	-
32.32	13.3	-	13.4	0.2	2.1	1.3	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.1	58	2.99	15	-	-
32.48	11.8	-	11.8	0.2	2.2	1.9	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	67	3.12	15	-	-
32.65	12.5	-	12.5	0.2	2.3	2.1	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	1.9	67	3.12	15	-	-
32.81	11.3	-	11.3	0.3	2.3	3.0	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	76	3.24	15	-	-
32.97	10.6	-	10.6	0.3	2.3	3.5	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	82	3.31	15	-	-
33.14	11.0	-	11.1	0.3	2.3	3.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.6	81	3.30	15	-	-
33.30	11.2	-	11.3	0.4	2.3	4.3	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.6	84	3.33	15	-	-
33.47	11.4	-	11.4	0.4	2.3	4.5	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	84	3.34	15	-	-
33.63	11.7	-	11.7	0.4	2.3	4.1	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	82	3.31	15	-	-
33.79	11.5	-	11.5	0.4	2.4	4.3	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	83	3.33	15	-	-
33.96	12.1	-	12.1	0.4	2.4	4.2	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	81	3.30	15	-	-
34.12	12.6	-	12.6	0.4	2.4	3.7	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.8	1.9	77	3.26	15	-	-
34.29	13.1	-	13.1	0.4	2.4	4.0	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	78	3.26	15	-	-
34.45	13.9	-	14.0	0.5	2.5	4.2	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.1	76	3.24	15	-	-
34.61	13.5	-	13.6	0.5	2.5	4.2	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.0	78	3.26	15	-	-
34.78	13.2	-	13.3	0.4	2.5	3.8	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	77	3.25	15	-	-
34.94	13.9	-	14.0	0.4	2.6	3.4	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.1	73	3.20	15	-	-
35.11	14.8	-	14.8	0.4	2.6	3.4	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.2	71	3.17	15	-	-
35.27	15.3	-	15.3	0.4	2.6	3.2	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.3	69	3.14	15	-	-
35.43	14.7	-	14.8	0.4	2.6	3.1	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.2	69	3.15	15	-	-
35.60	14.6	-	14.6	0.5	2.7	3.9	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.1	74	3.21	15	-	-
35.76	18.7	-	18.7	0.9	2.7	5.2	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.8	72	3.19	15	-	-
35.93	33.6	-	33.6	1.0	2.4	3.3	3	silty CLAY to CLAY	115	1.5	22	12	-	-	2.2	5.4	49	2.85	15	-	-
36.09	27.2	-	27.3	0.9	1.5	3.6	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	4.3	55	2.95	15	-	-
36.26	21.1	-	21.1	0.8	1.5	4.1	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	3.2	64	3.08	15	-	-
36.42	20.1	-	20.1	0.7	1.7	3.9	3	silty CLAY to CLAY	115	1.5	13	7	-	-	1.3	3.0	65	3.09	15	-	-
36.58	18.7	-	18.8	0.6	1.7	3.7	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.8	66	3.11	15	-	-
36.75	17.0	-	17.0	0.5	1.8	3.0	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.1	2.5	65	3.10	15	-	-
36.91	18.6	-	18.6	0.5	1.9	2.9	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.8	62	3.05	15	-	-
37.08	25.7	-	25.7	0.9	2.0	4.0	3	silty CLAY to CLAY	115	1.5	17	9	-	-	1.7	4.0	59	3.01	15	-	-
37.24	72.7	100.4	72.7	1.3	0.0	1.8	5	silty SAND to sandy SILT	120	3.0	24	17	44	35	-	-	23	2.31	16	2.33	43.7
37.40	86.2	104.0	86.1	1.4	-4.6	1.6	5	silty SAND to sandy SILT	120	3.0	29	20	50	36	-	-	20	2.23	16	2.26	34.2
37.57	72.9	114.9	72.8	1.7	-6.0	2.4	5	silty SAND to sandy SILT	120	3.0	24	17	44	35	-	-	26	2.39	16	1.76	38.4
37.73	40.8	-	40.7	1.4	-7.3	3.7	3	silty CLAY to CLAY	115	1.5	27	14	-	-	2.7	6.4	47	2.82	15	-	-
37.90	25.5	-	25.4	1.1	-7.2	4.8	3	silty CLAY to CLAY	115	1.5	17	9	-	-	1.7	3.9	63	3.06	15	-	-
38.06	23.4	-	23.2	0.9	-6.8	4.4	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.5	3.5	64	3.07	15	-	-
38.22	18.6	-	18.5	0.9	-6.7	5.5	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.7	74	3.22	15	-	-
38.39	17.1	-	16.9	0.9	-6.7	6.1	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.1	2.5	80	3.28	15	-	-
38.55	20.4	-	20.3	0.9	-6.6	4.8	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.3	3.0	69	3.15	15	-	-
38.72	19.3	-	19.2	0.9	-6.6	5.5	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.8	74	3.21	15	-	-
38.88	19.4	-	19.3	0.9	-6.5	5.2	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.8	73	3.19	15	-	-
39.04	19.6	-	19.5	0.9	-6.5	5.0	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.8	72	3.18	15	-	-
39.21	19.7	-	19.5	0.9	-6.5	4.9	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.8	71	3.18	15	-	-
39.37	19.1	-	19.0	0.9	-6.4	5.1	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.7	73	3.20	15	-	-
39.54	18.7	-	18.5	0.8	-6.4	5.2	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.7	74	3.21	15	-	-
39.70	18.1	-	17.9	0.8	-6.4	5.3	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.6	75	3.23	15	-	-
39.86	17.0	-	16.8	0.8	-6.4	5.3	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.1	2.4	77	3.25	15	-	-
40.03	17.6	-	17.4	0.7	-6.4	4.9	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.5	75	3.22	15	-	-
40.19	18.0	-	17.9	0.5	-6.4	3.1	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.5	65	3.10	15	-	-
40.36	16.6	-	16.4	0.6	-6.4	3.9	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.3	73	3.19	15	-	-
40.52	13.1	-	13.0	0.6	-6.3	5.1	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.7	86	3.36	15	-	-
40.68	21.1	-	21.0	0.7	-6.1	3.5	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.3	3.0	63	3.07	15	-	-
40.85	23.2	-	23.1	0.8	-6.0	3.9	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.3	63	3.06	15	-	-
41.01	23.1	-	23.0	0.9	-6.0	4.3	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.3	65	3.09	15	-	-
41.18	21.8	-	21.7	0.8	-6.0	4.3	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	3.1	66	3.11	15	-	-
41.34	21.8	-	21.7	0.8	-6.0	4.1	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	3.1	65	3.10	15	-	-
41.50	21.0	-	20.9	0.8	-5.9	4.3	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.3	3.0	67	3.12	15	-	-
41.67	19.9	-	19.8	0.7	-5.9	4.2	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.3	2.8	69	3.14	15	-	-
41.83	18.6	-	18.5	0.7	-5.9	4.4	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.2	2.6	72	3.18	15	-	-
42.00	17.4	-	17.3	0.7	-5.9	4.5	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.4	75	3.22	15	-	-
42.16	17.8	-	17.7	0.6	-5.9	4.1	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.4	72	3.18	15	-	-
42.32	14.9	-	14.8	0.5	-5.8	4.1	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.0	78	3.26	15	-	-
42.49	14.6	-	14.5	0.6	-5.8	4.7	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	1.9	81	3.30	15	-	-
42.65	23.1	-	23.0	1.0	-5.8	5.0	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.2	68	3.13	15	-	-
42.82	47.7	-	47.6	1.6	-5.9	3.5	4	clayy SILT to silty CLAY	115	2.0	24	11	-	-	3.2	7.1	45	2.78	15	-	-
42.98	44.4	-	44.3	1.6	-8.0	3.8	3	silty CLAY to CLAY	115	1.5	30	14	-	-	3.0	6.5	47	2.82	15	-	-
43.15	58.9	-	58.7	1.9	-9.2	3.3	4	clayy SILT to silty CLAY	115	2.0	29	14	-	-	4.0	8.8	40	2.68	15	-	-
43.31	34.2	-	34.1	1.1	-9.7	3.5	3	silty CLAY to CLAY	115	1.5	23	11	-	-	2.3	4.9	52	2.90	15	-	-
43.47	15.9	-	15.7	0.6	-9.5	4.3	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	77	3.25	15	-	-
43.64	13.7	-	13.5	0.4	-9.4	3.2	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.7	77	3.25	15	-	-
43.80	18.8	-	18.6	0.4	-9.3	2.7	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	63	3.07	15	-	-
43.97	16.6	-	16.4	0.6	-9.3	4.0	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.2	74	3.22	15	-	-
44.13	15.8	-	15.7	0.6	-9.0	4.5	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	79	3.27	15	-	-
44.29	19.0	-	18.9	0.6	-9.0	3.9	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	70	3.15	15	-	-
44.46	20.2	-	20.0	0.6	-9.0	3.5	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.3	2.7	66	3.11	15	-	-
44.62	20.9	-	20.7	0.6	-9.0	3.4	3	silty CLAY to CLAY	115	1.5	14	6	-	-	1.3	2.8	65	3.09	15	-	-
44.79	21.7	-	21.5	0.7	-9.0	3.5	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.9	64	3.08	15	-	-
44.95	22.7	-	22.6	0.7	-9.0	3.5	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.1	63	3.06	15	-	-
45.11	23.0	-	22.8	0.7	-8.9	3.5	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.1	62	3.06	15	-	-
45.28	23.3	-	23.1	0.8	-8.9	3.7	3	silty CLAY to CLAY	115	1.5	16	7	-	-	1.5	3.1	63	3.07	15	-	-
45.44	22.7	-	22.5	0.8	-8.9	3.8	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	3.0	64	3.09	15	-	-
45.61	22.0	-	21.9	0.7	-8.9	3.7	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	2.9	65	3.09	15	-	-
45.77	21.6	-	21.5	0.6	-8.9	3.4	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.9	64	3.08	15	-	-
45.93	20.9	-	20.8	0.6	-8.9	3.5	3	silty CLAY to CLAY	115	1.5	14	6	-	-	1.3	2.7	66	3.10	15	-	-
46.10	19.5	-	19.3	0.6	-8.9	3.5	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	68	3.13	15	-	-
46.26	18.2	-	18.1	0.6	-8.9	3.6	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.3	71	3.17	15	-	-

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(711).cpt
CPT Date: 4/12/2017 8:44:49 AM
GW During Test: 31 ft

Sounding ID: CPT-02
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	* qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	* Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	* SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR - -	Fin Ic %	* Ic SBT Indx	Nk - -	* Vol Strn %	* Cycl SStn %
46.43	17.0	-	16.8	0.5	-8.9	3.8	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	74	3.21	15	-	-
46.59	16.0	-	15.8	0.5	-8.9	3.9	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	77	3.24	15	-	-
46.75	15.8	-	15.7	0.5	-8.9	3.6	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	76	3.23	15	-	-
46.92	16.7	-	16.5	0.5	-8.9	3.4	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	72	3.19	15	-	-
47.08	16.7	-	16.5	0.5	-8.9	3.6	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	74	3.21	15	-	-
47.25	16.4	-	16.2	0.5	-8.9	3.4	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	73	3.20	15	-	-
47.41	15.7	-	15.5	0.4	-8.9	3.2	3	silty CLAY to CLAY	115	1.5	10	5	-	-	1.0	1.9	74	3.21	15	-	-
47.57	15.6	-	15.4	0.4	-8.8	2.7	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	1.9	71	3.18	15	-	-
47.74	14.8	-	14.7	0.3	-8.8	2.6	3	silty CLAY to CLAY	115	1.5	10	4	-	-	0.9	1.8	72	3.19	15	-	-
47.90	14.3	-	14.1	0.4	-8.8	3.3	3	silty CLAY to CLAY	115	1.5	10	4	-	-	0.9	1.7	78	3.26	15	-	-
48.07	15.8	-	15.6	0.4	-8.6	3.1	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	1.9	73	3.20	15	-	-
48.23	16.3	-	16.1	0.4	-8.6	2.7	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	70	3.16	15	-	-
48.39	16.5	-	16.3	0.3	-8.6	2.4	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	68	3.13	15	-	-
48.56	15.6	-	15.4	0.3	-8.6	2.6	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	1.9	71	3.17	15	-	-
48.72	15.1	-	15.0	0.3	-8.6	2.7	3	silty CLAY to CLAY	115	1.5	10	4	-	-	0.9	1.8	73	3.20	15	-	-
48.89	15.8	-	15.7	0.3	-8.5	2.2	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	1.9	68	3.13	15	-	-
49.05	16.3	-	16.1	0.3	-8.5	2.0	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	1.9	65	3.10	15	-	-
49.22	16.9	-	16.7	0.2	-8.5	1.6	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.0	61	3.04	15	-	-
49.38	18.0	-	17.8	0.2	-8.5	1.5	3	silty CLAY to CLAY	115	1.5	12	5	-	-	1.1	2.2	58	2.99	15	-	-
49.54	18.3	-	18.1	0.2	-8.4	1.6	3	silty CLAY to CLAY	115	1.5	12	5	-	-	1.1	2.2	59	3.00	15	-	-
49.71	18.3	-	18.2	0.3	-8.4	1.8	3	silty CLAY to CLAY	115	1.5	12	5	-	-	1.1	2.2	60	3.02	15	-	-
49.87	19.5	-	19.3	0.3	-8.4	1.7	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.4	58	2.99	15	-	-
50.04	19.5	-	19.3	0.3	-8.3	1.8	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.4	59	3.00	15	-	-
50.20	19.6	-	19.5	0.3	-8.3	1.9	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.4	59	3.01	15	-	-
50.36	19.3	-	19.2	0.3	-8.3	2.0	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.3	61	3.03	15	-	-
50.53	19.5	-	19.3	0.4	-8.3	2.2	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.4	62	3.05	15	-	-
50.69	20.2	-	20.0	0.3	-8.2	1.9	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.3	2.4	59	3.00	15	-	-
50.86	20.6	-	20.5	0.4	-8.2	2.0	3	silty CLAY to CLAY	115	1.5	14	6	-	-	1.3	2.5	59	3.00	15	-	-

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

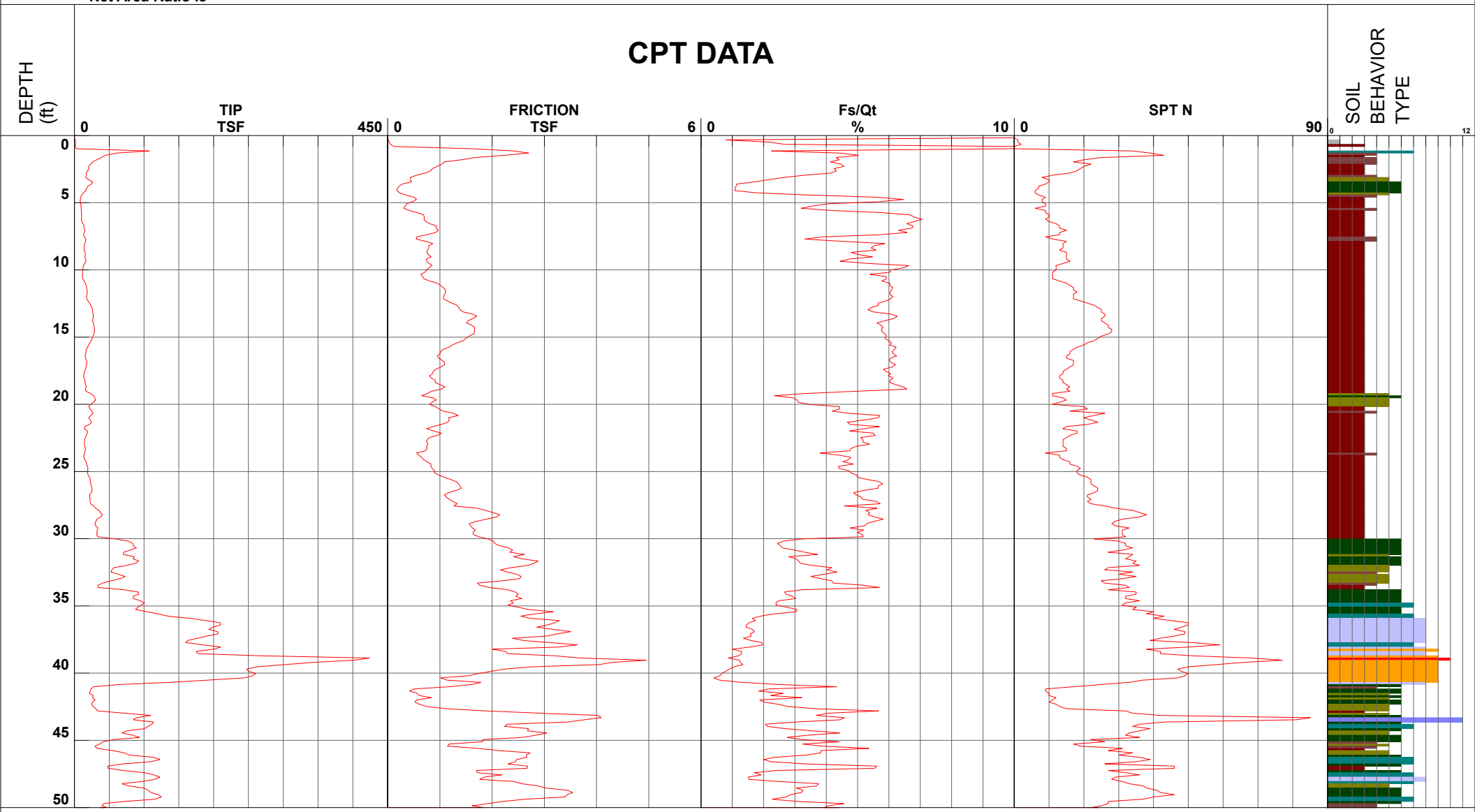
Middle Earth Geo Testing

Gorian & Associates

Project	Reseda High School	Operator	RC-JM	Filename	SDF(709).cpt
Job Number	2880-62-0-100	Cone Number	DDG1350	GPS	
Hole Number	CPT-05	Date and Time	4/12/2017 7:09:57 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		31.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Ratio %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
0.33	1.4	-	1.4	0.0	0.0	0.8	1	sensitive fine SOIL	115	2.0	1	1	-	-	0.1	9.9	84	3.33	15	N/A	N/A
0.49	1.3	-	1.3	0.0	0.0	2.2	3	silty CLAY to CLAY	115	1.5	1	1	-	-	0.1	9.9	95	3.52	15	N/A	N/A
0.66	2.0	-	2.0	0.1	0.1	2.7	3	silty CLAY to CLAY	115	1.5	1	2	-	-	0.1	9.9	90	3.41	15	N/A	N/A
0.82	1.2	-	1.2	0.1	0.0	9.9	2	Organic SOILS - Peats	100	1.0	1	2	-	-	0.1	8.2	95	3.90	10	N/A	N/A
0.98	2.6	-	2.6	1.6	0.0	9.9	2	Organic SOILS - Peats	100	1.0	3	4	-	-	0.3	9.9	95	3.62	10	N/A	N/A
1.15	107.2	223.5	107.2	2.4	0.2	2.3	5	silty SAND to sandy SILT	120	3.0	36	57	85	48	-	-	13	2.00	16	N/A	N/A
1.31	60.6	219.3	60.6	2.7	0.3	4.5	9	very stiff fine SOIL	120	1.0	61	97	-	-	2.1	9.9	26	2.39	30	N/A	N/A
1.48	44.5	201.8	44.5	2.2	2.5	5.0	4	clayy SILT to silty CLAY	115	2.0	22	36	-	-	3.1	9.9	31	2.51	15	N/A	N/A
1.64	38.9	172.8	38.9	1.7	2.3	4.3	4	clayy SILT to silty CLAY	115	2.0	19	31	-	-	2.7	9.9	31	2.50	15	N/A	N/A
1.80	32.0	160.4	32.1	1.4	0.4	4.4	4	clayy SILT to silty CLAY	115	2.0	16	26	-	-	2.3	9.9	34	2.57	15	N/A	N/A
1.97	26.2	-	26.2	1.1	-0.9	4.2	4	clayy SILT to silty CLAY	115	2.0	13	21	-	-	1.8	9.9	36	2.61	15	N/A	N/A
2.13	23.2	-	23.2	1.0	-3.1	4.5	4	clayy SILT to silty CLAY	115	2.0	12	19	-	-	1.6	9.9	39	2.67	15	N/A	N/A
2.30	20.8	-	20.7	0.9	-3.9	4.6	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.5	9.9	41	2.71	15	N/A	N/A
2.46	20.1	-	20.0	0.9	-4.8	4.3	4	clayy SILT to silty CLAY	115	2.0	10	16	-	-	1.4	9.9	40	2.70	15	N/A	N/A
2.62	19.1	-	19.1	0.8	-0.8	4.4	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.3	9.9	42	2.72	15	N/A	N/A
2.79	17.2	-	17.2	0.7	-0.3	4.2	3	silty CLAY to CLAY	115	1.5	11	18	-	-	1.2	9.9	43	2.74	15	N/A	N/A
2.95	16.8	-	16.8	0.6	-0.2	3.3	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.2	9.9	40	2.69	15	N/A	N/A
3.12	16.3	-	16.3	0.4	0.1	2.7	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.1	9.9	37	2.64	15	N/A	N/A
3.28	20.2	90.7	20.2	0.4	0.1	2.2	4	clayy SILT to silty CLAY	115	2.0	10	16	-	-	1.4	9.9	31	2.51	15	N/A	N/A
3.45	26.4	90.6	26.4	0.5	0.1	1.7	5	silty SAND to sandy SILT	120	3.0	9	14	39	42	-	-	25	2.36	16	N/A	N/A
3.61	24.5	73.6	24.5	0.3	0.2	1.2	5	silty SAND to sandy SILT	120	3.0	8	13	36	41	-	-	22	2.28	16	N/A	N/A
3.77	19.4	66.6	19.4	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	10	28	40	-	-	25	2.36	16	N/A	N/A
3.94	17.2	63.0	17.2	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	9	24	39	-	-	26	2.39	16	N/A	N/A
4.10	16.7	62.4	16.7	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	9	23	39	-	-	27	2.41	16	N/A	N/A
4.27	12.8	-	12.8	0.2	0.2	1.8	4	clayy SILT to silty CLAY	115	2.0	6	10	-	-	0.9	9.9	36	2.62	15	N/A	N/A
4.43	10.3	-	10.3	0.4	0.2	3.5	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	50	2.87	15	N/A	N/A
4.59	9.0	-	9.0	0.5	0.1	5.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	62	3.05	15	N/A	N/A
4.76	8.5	-	8.5	0.6	0.1	6.7	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.9	66	3.11	15	N/A	N/A
4.92	8.5	-	8.5	0.5	0.0	5.9	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.5	64	3.08	15	N/A	N/A
5.09	8.9	-	8.9	0.4	0.1	4.2	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.7	56	2.97	15	N/A	N/A
5.25	9.5	-	9.5	0.3	0.0	3.7	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	53	2.91	15	N/A	N/A
5.41	9.7	-	9.7	0.3	-0.1	3.3	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.7	9.9	51	2.88	15	N/A	N/A
5.58	9.9	-	9.9	0.4	0.0	4.3	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.8	55	2.94	15	N/A	N/A
5.74	9.8	-	9.8	0.6	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.5	61	3.04	15	N/A	N/A
5.91	10.3	-	10.3	0.7	-0.7	6.9	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.7	63	3.06	15	N/A	N/A
6.07	10.3	-	10.3	0.7	-0.6	7.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.4	63	3.07	15	N/A	N/A
6.23	9.9	-	9.9	0.7	-0.5	7.3	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	8.8	65	3.09	15	N/A	N/A
6.40	10.7	-	10.7	0.7	-0.7	7.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.3	62	3.06	15	N/A	N/A
6.56	12.3	-	12.3	0.8	-0.5	6.8	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	9.9	58	3.00	15	N/A	N/A
6.73	13.8	-	13.8	0.9	-0.6	7.0	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	9.9	57	2.97	15	N/A	N/A
6.89	13.8	-	13.8	0.9	-0.2	6.9	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	9.9	56	2.97	15	N/A	N/A
7.05	15.4	-	15.4	1.0	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.1	9.9	53	2.91	15	N/A	N/A
7.22	14.0	-	14.0	0.9	-1.1	6.8	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	56	2.96	15	N/A	N/A
7.38	13.2	-	13.2	0.8	-0.4	5.9	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	9.9	54	2.94	15	N/A	N/A
7.55	14.5	-	14.5	0.6	-0.2	4.0	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.9	46	2.79	15	N/A	N/A
7.71	16.5	-	16.5	0.5	-0.1	3.4	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.1	9.9	41	2.70	15	N/A	N/A
7.87	16.1	-	16.1	0.7	-0.1	4.6	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.9	46	2.80	15	N/A	N/A
8.04	14.7	-	14.7	0.9	-0.8	6.0	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	9.9	53	2.91	15	N/A	N/A
8.20	14.3	-	14.3	0.8	-0.3	5.7	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.6	52	2.90	15	N/A	N/A
8.37	14.4	-	14.4	0.8	-0.4	5.6	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.6	52	2.89	15	N/A	N/A
8.53	13.7	-	13.7	0.8	-0.4	5.8	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	8.9	53	2.92	15	N/A	N/A
8.69	15.7	-	15.7	0.8	-0.3	4.9	3	silty CLAY to CLAY	115	1.5	10	17	-	-	1.1	9.9	48	2.83	15	N/A	N/A
8.86	15.5	-	15.5	0.8	-0.4	5.2	3	silty CLAY to CLAY	115	1.5	10	17	-	-	1.1	9.7	49	2.85	15	N/A	N/A
9.02	15.2	-	15.2	0.8	-0.2	5.7	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	9.3	51	2.88	15	N/A	N/A
9.19	15.8	-	15.7	0.7	-0.4	4.9	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.5	48	2.83	15	N/A	N/A
9.35	16.7	-	16.7	0.7	-0.1	4.6	3	silty CLAY to CLAY	115	1.5	11	18	-	-	1.1	9.9	45	2.79	15	N/A	N/A
9.51	14.9	-	14.8	0.8	-0.2	5.5	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	8.6	51	2.88	15	N/A	N/A
9.68	12.9	-	12.9	0.9	-0.5	6.9	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	7.3	58	3.00	15	N/A	N/A
9.84	12.3	-	12.3	0.8	-0.5	6.8	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.8	59	3.01	15	N/A	N/A
10.01	12.4	-	12.3	0.7	-1.0	6.3	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.8	57	2.98	15	N/A	N/A
10.17	11.8	-	11.8	0.7	-1.3	6.4	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.3	58	3.00	15	N/A	N/A
10.34	11.8	-	11.8	0.6	-1.1	5.7	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.2	56	2.97	15	N/A	N/A
10.50	11.3	-	11.3	0.7	-2.0	6.2	3	silty CLAY to CLAY	115	1.5	8	12	-	-	0.8	5.8	59	3.01	15	N/A	N/A
10.66	11.7	-	11.7	0.7	-1.8	6.3	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.0	58	3.00	15	N/A	N/A
10.83	13.8	-	13.8	0.8	-1.5	6.0	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	7.0	54	2.93	15	N/A	N/A
10.99	15.8	-	15.8	1.0	-1.5	6.3	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	7.9	52	2.91	15	N/A	N/A
11.16	16.8	-	16.8	1.0	-1.4	6.3	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	8.3	51	2.89	15	N/A	N/A
11.32	17.4	-	17.4	1.1	-1.5	6.4	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.5	51	2.89	15	N/A	N/A
11.48	18.2	-	18.2	1.1	-1.5	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.8	50	2.88	15	N/A	N/A
11.65	18.4	-	18.4	1.1	-1.4	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.3	8.7	50	2.87	15	N/A	N/A
11.81	18.1	-	18.1	1.1	-1.3	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.4	51	2.88	15	N/A	N/A
11.98	17.5	-	17.5	1.1	-1.3	6.4	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.1	52	2.90	15	N/A	N/A
12.14	17.6	-	17.6	1.1	-1.3	6.3	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.0	52	2.90	15	N/A	N/A
12.30	19.3	-	19.3	1.1	-1.2	6.1	3	silty CLAY to CLAY	115	1.5	13	18	-	-	1.3	8.7	50	2.87	15	N/A	N/A
12.47	21.7	-	21.7	1.2	-1.1	5.8	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.5	9.7	47	2.82	15	N/A	N/A
12.63	23.5	-	23.5	1.3	-0.9	5.8	3	silty CLAY to CLAY	115	1.5	16	22	-	-	1.6	9.9	46	2.80	15	N/A	N/A
12.80	25.0	-	25.0	1.4	-0.8	5.6	3	silty CLAY to CLAY	115	1.5	17	23	-	-	1.7	9.9	44	2.77	15	N/A	N/A
12.96	26.0	-	26.0	1.4	-0.7	5.5	3	silty CLAY to CLAY	115	1.5	17	23	-	-	1.8	9.9	44	2.76	15	N/A	N/A
13.12	26.3	-	26.3	1.4	-0.7	5.7	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	44	2.77	15	N/A	N/A
13.29	26.8	-	26.8	1.6	-0.7	6.2	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	46	2.80	15	N/A	N/A
13.45	27.2	-	27.2	1.7	-0.7	6.4	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.9	9.9	46	2.80	15	N/A	N/A
13.62	26.5	-	26.5	1.6	-0.7	6.3	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	47	2.81	15	N/A	N/A
13.78	26.3	-	26.2	1.5	-0.6	6.1	3	silty CLAY to CLAY	115	1.5	18	22	-	-	1.8	9.9	46	2.81	15	N/A	N/A
13.94	26.9	-	26.9	1.5	-0.5	5.8	3	silty CLAY to CLAY	115	1.5	18	22	-	-	1.8	9.9	45	2.79	15	N/A	N/A
14.11	27.9	-	27.9	1.6	-0.5	5.9	3	silty CLAY to CLAY	115	1.5	19	23	-	-	1.9	9.9	45	2.79	15	N/A	N/A
14.27	28.6	-	28.6	1.7	-0.4	6.0	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.78	15	N/A	N/A
14.44	28.9	-	28.9	1.7	-0.3	5.9	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.78	15	N/A	N/A
14.60	28.8	-	28.8	1.7	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.79	15	N/A	N/A
14.76	28.1	-	28.1	1.7	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	19	22	-	-	1.9	9.9	46	2.80	15	N/A	N/A
14.93	26.3	-	26.3	1.6	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	18	20	-	-	1.8	9.8	48	2.83	15	N/A	N/A
15.09	25.5	-	25.5	1.5	0.0	6.1	3	silty CLAY to CLAY	115	1.5	17	20	-	-	1.7	9.4	49	2.84	15	N/A	N/A
15.26	24.2	-	24.2	1.4	-0.1	6.2	3	silty CLAY to CLAY	115	1.5	16	18	-	-	1.6	8.8	50	2.87	15	N/A	N/A
15.42	21.9	-	21.9	1.3	0.0	6.3	3	silty CLAY to CLAY	115	1.5	15	16	-	-	1.5	7.8	53	2.91	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
15.58	20.6	-	20.6	1.2	-0.1	6.3	3	silty CLAY to CLAY	115	1.5	14	15	-	-	1.4	7.3	54	2.93	15	N/A	N/A
15.75	18.8	-	18.8	1.2	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	13	14	-	-	1.3	6.5	57	2.98	15	N/A	N/A
15.91	17.2	-	17.2	1.1	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	11	13	-	-	1.2	5.9	59	3.01	15	N/A	N/A
16.08	16.6	-	16.6	1.0	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	11	12	-	-	1.1	5.6	60	3.02	15	N/A	N/A
16.24	16.3	-	16.2	1.0	-0.4	6.5	3	silty CLAY to CLAY	115	1.5	11	12	-	-	1.1	5.4	61	3.04	15	N/A	N/A
16.40	15.2	-	15.2	0.9	-0.2	6.7	3	silty CLAY to CLAY	115	1.5	10	11	-	-	1.0	5.0	63	3.07	15	N/A	N/A
16.57	16.2	-	16.2	1.0	-0.1	6.4	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.3	61	3.04	15	N/A	N/A
16.73	17.4	-	17.4	1.0	-0.2	6.4	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.6	60	3.02	15	N/A	N/A
16.90	17.9	-	17.9	1.1	-0.1	6.4	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.7	59	3.01	15	N/A	N/A
17.06	17.5	-	17.4	1.1	-1.6	6.6	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.5	61	3.03	15	N/A	N/A
17.23	16.6	-	16.6	1.0	-1.4	6.5	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.2	62	3.05	15	N/A	N/A
17.39	15.8	-	15.8	0.9	-1.3	6.2	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.0	4.9	62	3.06	15	N/A	N/A
17.55	14.8	-	14.8	0.9	-1.2	6.3	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.5	65	3.09	15	N/A	N/A
17.72	14.2	-	14.2	0.9	-1.3	6.5	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.3	66	3.11	15	N/A	N/A
17.88	13.4	-	13.4	0.8	-1.2	6.5	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.0	68	3.14	15	N/A	N/A
18.05	13.6	-	13.6	0.8	-1.3	6.6	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.0	69	3.14	15	N/A	N/A
18.21	15.1	-	15.1	0.9	-1.3	6.5	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	66	3.10	15	N/A	N/A
18.37	15.1	-	15.1	0.9	-1.5	6.5	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	66	3.10	15	N/A	N/A
18.54	16.1	-	16.1	1.0	-1.6	6.7	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.7	65	3.09	15	N/A	N/A
18.70	17.0	-	16.9	1.1	-1.9	6.9	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	4.9	65	3.09	15	N/A	N/A
18.87	15.6	-	15.5	1.0	-1.8	7.1	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	67	3.13	15	N/A	N/A
19.03	16.9	-	16.8	0.8	-3.2	5.3	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.8	60	3.02	15	N/A	N/A
19.19	22.7	-	22.7	0.8	-0.5	3.5	3	silty CLAY to CLAY	115	1.5	15	14	-	-	1.5	6.5	46	2.80	15	N/A	N/A
19.36	27.7	-	27.7	0.7	-0.3	2.4	4	clayy SILT to silty CLAY	115	2.0	14	12	-	-	1.9	7.9	37	2.64	15	N/A	N/A
19.52	29.5	-	29.5	0.9	-0.3	3.1	4	clayy SILT to silty CLAY	115	2.0	15	13	-	-	2.0	8.3	39	2.68	15	N/A	N/A
19.69	30.4	-	30.3	0.9	-0.5	3.2	4	clayy SILT to silty CLAY	115	2.0	15	13	-	-	2.1	8.5	40	2.68	15	N/A	N/A
19.85	27.2	-	27.2	0.8	-0.7	3.2	4	clayy SILT to silty CLAY	115	2.0	14	12	-	-	1.8	7.5	42	2.73	15	N/A	N/A
20.01	23.1	-	23.1	0.8	-0.2	3.7	3	silty CLAY to CLAY	115	1.5	15	13	-	-	1.6	6.3	47	2.82	15	N/A	N/A
20.18	20.7	-	20.7	0.9	-0.2	4.7	3	silty CLAY to CLAY	115	1.5	14	12	-	-	1.4	5.6	54	2.93	15	N/A	N/A
20.34	22.2	-	22.2	1.0	-0.3	4.7	3	silty CLAY to CLAY	115	1.5	15	13	-	-	1.5	5.9	53	2.91	15	N/A	N/A
20.51	25.3	-	25.3	1.1	-0.5	4.4	3	silty CLAY to CLAY	115	1.5	17	14	-	-	1.7	6.8	49	2.85	15	N/A	N/A
20.67	26.7	-	26.7	1.3	-0.8	4.9	3	silty CLAY to CLAY	115	1.5	18	15	-	-	1.8	7.1	50	2.87	15	N/A	N/A
20.83	23.6	-	23.6	1.3	-0.9	6.0	3	silty CLAY to CLAY	115	1.5	16	13	-	-	1.6	6.2	57	2.97	15	N/A	N/A
21.00	20.6	-	20.6	1.2	-0.5	6.0	3	silty CLAY to CLAY	115	1.5	14	11	-	-	1.4	5.3	60	3.02	15	N/A	N/A
21.16	22.6	-	22.6	1.2	-0.2	5.5	3	silty CLAY to CLAY	115	1.5	15	12	-	-	1.5	5.8	56	2.97	15	N/A	N/A
21.33	24.6	-	24.6	1.2	-0.8	4.9	3	silty CLAY to CLAY	115	1.5	16	13	-	-	1.7	6.3	52	2.91	15	N/A	N/A
21.49	21.6	-	21.6	1.0	-1.0	5.1	3	silty CLAY to CLAY	115	1.5	14	12	-	-	1.4	5.4	56	2.96	15	N/A	N/A
21.65	15.2	-	15.2	0.9	-1.3	6.2	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	69	3.15	15	N/A	N/A
21.82	14.4	-	14.4	0.7	-1.1	5.7	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.5	69	3.15	15	N/A	N/A
21.98	18.6	-	18.6	0.9	-0.9	5.1	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.5	60	3.03	15	N/A	N/A
22.15	18.7	-	18.7	1.0	-2.3	5.9	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.5	63	3.07	15	N/A	N/A
22.31	17.2	-	17.2	1.0	-1.9	6.0	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.1	66	3.11	15	N/A	N/A
22.47	15.6	-	15.6	0.8	-1.7	5.6	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	67	3.12	15	N/A	N/A
22.64	14.7	-	14.6	0.8	-1.6	5.7	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.4	69	3.15	15	N/A	N/A
22.80	14.4	-	14.4	0.7	-1.7	5.7	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.3	70	3.16	15	N/A	N/A
22.97	14.4	-	14.4	0.8	-1.7	5.9	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.3	71	3.18	15	N/A	N/A
23.13	15.0	-	15.0	0.7	-1.6	5.4	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.4	69	3.14	15	N/A	N/A
23.30	15.9	-	15.9	0.8	-1.4	5.2	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.0	3.6	66	3.11	15	N/A	N/A
23.46	15.2	-	15.2	0.7	-1.3	5.2	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.4	68	3.13	15	N/A	N/A
23.62	14.6	-	14.6	0.6	-1.1	4.2	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.2	65	3.09	15	N/A	N/A
23.79	13.6	-	13.6	0.6	-1.1	4.9	3	silty CLAY to CLAY	115	1.5	9	7	-	-	0.9	2.9	70	3.16	15	N/A	N/A
23.95	13.7	-	13.6	0.7	-1.2	5.3	3	silty CLAY to CLAY	115	1.5	9	7	-	-	0.9	2.9	72	3.18	15	N/A	N/A
24.12	14.6	-	14.6	0.7	-1.2	5.2	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.1	70	3.15	15	N/A	N/A
24.28	16.7	-	16.7	0.8	-1.1	4.9	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.6	65	3.09	15	N/A	N/A
24.44	17.1	-	17.1	0.8	-0.9	5.3	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.7	66	3.11	15	N/A	N/A
24.61	18.8	-	18.8	0.8	-0.8	4.7	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	62	3.04	15	N/A	N/A
24.77	19.4	-	19.4	0.9	-0.2	4.8	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.2	61	3.04	15	N/A	N/A
24.94	19.0	-	19.0	0.9	0.0	5.1	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	63	3.06	15	N/A	N/A
25.10	18.8	-	18.7	0.9	-0.7	5.2	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	64	3.08	15	N/A	N/A
25.26	19.7	-	19.7	1.0	-0.7	5.4	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.1	63	3.07	15	N/A	N/A
25.43	21.8	-	21.7	1.1	-0.9	5.4	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.4	4.6	61	3.04	15	N/A	N/A
25.59	22.8	-	22.8	1.2	-0.9	5.7	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.8	61	3.04	15	N/A	N/A
25.76	23.0	-	22.9	1.3	-3.1	6.1	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.8	62	3.06	15	N/A	N/A
25.92	23.4	-	23.4	1.4	-1.6	6.2	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.5	4.9	62	3.06	15	N/A	N/A
26.08	24.5	-	24.5	1.4	-1.4	6.0	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.1	61	3.04	15	N/A	N/A
26.25	25.0	-	24.9	1.4	-1.4	6.0	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.1	61	3.03	15	N/A	N/A
26.41	25.4	-	25.4	1.3	-1.5	5.5	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.2	59	3.00	15	N/A	N/A
26.58	23.9	-	23.9	1.2	-1.5	5.2	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.6	4.8	59	3.01	15	N/A	N/A
26.74	21.9	-	21.8	1.1	-3.3	5.3	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.4	4.4	62	3.05	15	N/A	N/A
26.90	22.0	-	21.9	1.1	-5.3	5.5	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.4	4.4	63	3.06	15	N/A	N/A
27.07	22.9	-	22.8	1.2	-4.5	5.5	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.5	62	3.05	15	N/A	N/A
27.23	22.3	-	22.3	1.3	-4.1	6.0	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.4	64	3.08	15	N/A	N/A
27.40	23.3	-	23.2	1.3	-3.8	6.1	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.5	4.5	64	3.08	15	N/A	N/A
27.56	27.6	-	27.5	1.3	-3.5	4.9	3	silty CLAY to CLAY	115	1.5	18	12	-	-	1.8	5.4	55	2.95	15	N/A	N/A
27.72	30.3	-	30.2	1.7	-4.7	5.9	3	silty CLAY to CLAY	115	1.5	20	13	-	-	2.0	5.9	57	2.98	15	N/A	N/A
27.89	35.5	-	35.4	1.9	-4.5	5.5	3	silty CLAY to CLAY	115	1.5	24	15	-	-	2.4	7.0	52	2.91	15	N/A	N/A
28.05	37.4	-	37.4	2.0	-3.9	5.6	3	silty CLAY to CLAY	115	1.5	25	15	-	-	2.5	7.3	52	2.90	15	N/A	N/A
28.22	40.2	-	40.1	2.1	-3.6	5.6	3	silty CLAY to CLAY	115	1.5	27	17	-	-	2.7	7.8	50	2.87	15	N/A	N/A
28.38	37.6	-	37.6	2.1	-3.6	5.8	3	silty CLAY to CLAY	115	1.5	25	15	-	-	2.5	7.3	52	2.91	15	N/A	N/A
28.54	32.6	-	32.5	1.9	-3.5	6.1	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.2	57	2.97	15	N/A	N/A
28.71	30.8	-	30.7	1.7	-3.3	5.8	3	silty CLAY to CLAY	115	1.5	21	12	-	-	2.1	5.8	57	2.98	15	N/A	N/A
28.87	29.5	-	29.4	1.6	-3.2	5.6	3	silty CLAY to CLAY	115	1.5	20	12	-	-	2.0	5.5	58	2.99	15	N/A	N/A
29.04	30.4	-	30.3	1.6	-3.0	5.5	3	silty CLAY to CLAY	115	1.5	20	12	-	-	2.0	5.7	57	2.97	15	N/A	N/A
29.20	34.1	-	34.0	1.6	-2.9	5.0	3	silty CLAY to CLAY	115	1.5	23	14	-	-	2.3	6.4	53	2.91	15	N/A	N/A
29.36	32.3	-	32.3	1.7	-2.8	5.5	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.0	55	2.95	15	N/A	N/A
29.53	32.8	-	32.7	1.6	-2.7	5.3	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.0	54	2.94	15	N/A	N/A
29.69	32.0	-	31.9	1.6	-2.6	5.4	3	silty CLAY to CLAY	115	1.5	21	12	-	-	2.1	5.8	56	2.96	15	N/A	N/A
29.86	33.7	-	33.6	1.7	-2.4	5.5	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.3	6.1	55	2.94	15	N/A	N/A
30.02	59.2	-	59.1	1.9	-2.4	3.3	4	clayy SILT to silty CLAY	115	2.0	30	17	-	-	4.1	9.9	36	2.61	15	N/A	N/A
30.19	77.3	128.6	77.2	2.0	-4.4	2.7	5	silty SAND to sandy SILT	120	3.0	26	19	48	36	-	-	26	2.39	16	N/A	N/A
30.35	83.8	128.1	83.7	2.0	-5.9	2.5	5	silty SAND to sandy SILT	120	3.0	28	21	51	36	-	-	24	2.34	16	N/A	N/A
30.51	84.3	130.7	84.2	2.1	-6.3	2.6	5	silty SAND to sandy SILT	120	3.0	28	21	51	36	-	-	24	2.35	16	N/A	N/A
30.68	89.0	135.5	88.9	2.3	-6.5	2.7	5	silty SAND to sandy SILT	120	3.0	30	22	53	37	-	-	24	2.34	16	N/A	N/A
30.84	80.0	139.2	79.9	2.4	-7.0	3.1	4	clayy SILT to silty CLAY	115	2.0	40	29	-	-	5.5	9.9	27	2.42	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
31.01	70.6	139.7	70.5	2.3	-7.4	3.4	4	clayy SILT to silty CLAY	115	2.0	35	26	-	-	4.9	9.9	30	2.49	15	0.29	0.9
31.17	70.3	-	70.1	2.6	-7.5	3.8	4	clayy SILT to silty CLAY	115	2.0	35	20	-	-	4.8	9.9	36	2.61	15	-	-
31.33	86.1	138.5	85.9	2.4	-8.0	2.9	5	silty SAND to sandy SILT	120	3.0	29	21	52	36	-	-	25	2.38	16	0.34	1.5
31.50	84.3	143.5	84.1	2.6	-8.5	3.1	4	clayy SILT to silty CLAY	115	2.0	42	31	-	-	5.8	9.9	27	2.41	15	0.24	0.9
31.66	92.4	151.4	92.3	2.9	-9.1	3.2	4	clayy SILT to silty CLAY	115	2.0	46	33	-	-	6.4	9.9	26	2.39	15	0.17	0.5
31.83	88.2	149.7	88.1	2.8	-9.9	3.2	4	clayy SILT to silty CLAY	115	2.0	44	32	-	-	6.1	9.9	27	2.41	15	0.18	0.5
31.99	75.5	149.0	75.3	2.7	-10.2	3.6	4	clayy SILT to silty CLAY	115	2.0	38	27	-	-	5.2	9.9	30	2.49	15	0.18	0.4
32.15	56.7	-	56.5	2.4	-10.3	4.3	4	clayy SILT to silty CLAY	115	2.0	28	16	-	-	3.9	9.9	42	2.72	15	-	-
32.32	53.9	-	53.7	2.2	-10.4	4.2	4	clayy SILT to silty CLAY	115	2.0	27	15	-	-	3.7	9.5	42	2.73	15	-	-
32.48	52.6	-	52.4	2.3	-10.4	4.5	3	silty CLAY to CLAY	115	1.5	35	19	-	-	3.6	9.2	44	2.76	15	-	-
32.65	62.8	-	62.6	2.5	-10.5	4.1	4	clayy SILT to silty CLAY	115	2.0	31	17	-	-	4.3	9.9	39	2.67	15	-	-
32.81	72.9	145.5	72.7	2.6	-10.7	3.6	4	clayy SILT to silty CLAY	115	2.0	36	26	-	-	5.0	9.9	31	2.50	15	0.21	0.5
32.97	65.8	-	65.6	2.5	-10.7	3.9	4	clayy SILT to silty CLAY	115	2.0	33	18	-	-	4.5	9.9	38	2.65	15	-	-
33.14	52.6	-	52.4	2.2	-10.8	4.3	3	silty CLAY to CLAY	115	1.5	35	19	-	-	3.6	9.1	43	2.75	15	-	-
33.30	40.7	-	40.5	1.7	-10.7	4.4	3	silty CLAY to CLAY	115	1.5	27	15	-	-	2.7	7.0	49	2.84	15	-	-
33.47	33.9	-	33.7	1.8	-10.7	5.5	3	silty CLAY to CLAY	115	1.5	23	12	-	-	2.3	5.7	57	2.97	15	-	-
33.63	34.2	-	34.0	2.0	-10.6	6.0	3	silty CLAY to CLAY	115	1.5	23	12	-	-	2.3	5.8	58	2.99	15	-	-
33.79	71.2	137.3	71.0	2.3	-10.6	3.3	4	clayy SILT to silty CLAY	115	2.0	36	25	-	-	4.9	9.9	30	2.49	15	0.38	1.4
33.96	91.5	137.7	91.2	2.4	-10.7	2.7	5	silty SAND to sandy SILT	120	3.0	30	22	53	36	-	-	24	2.35	16	0.41	1.9
34.12	92.4	139.3	92.2	2.5	-11.1	2.8	5	silty SAND to sandy SILT	120	3.0	31	22	53	37	-	-	24	2.35	16	0.37	1.7
34.29	84.1	139.2	83.9	2.5	-11.1	3.0	4	clayy SILT to silty CLAY	115	2.0	42	30	-	-	5.8	9.9	27	2.40	15	0.36	1.6
34.45	84.9	142.4	84.7	2.6	-11.1	3.1	4	clayy SILT to silty CLAY	115	2.0	42	30	-	-	5.9	9.9	27	2.41	15	0.29	1.2
34.61	94.4	134.6	94.2	2.4	-11.3	2.5	5	silty SAND to sandy SILT	120	3.0	31	22	54	37	-	-	23	2.32	16	0.52	2.7
34.78	100.8	135.8	100.6	2.4	-11.7	2.4	5	silty SAND to sandy SILT	120	3.0	34	24	56	37	-	-	22	2.29	16	0.49	2.6
34.94	96.0	133.1	95.7	2.3	-11.8	2.5	5	silty SAND to sandy SILT	120	3.0	32	23	54	37	-	-	23	2.30	16	0.60	3.2
35.11	91.0	139.2	90.8	2.5	-11.9	2.8	5	silty SAND to sandy SILT	120	3.0	30	21	52	36	-	-	25	2.36	16	0.38	1.8
35.27	88.0	145.2	87.8	2.7	-12.2	3.1	4	clayy SILT to silty CLAY	115	2.0	44	31	-	-	6.1	9.9	27	2.41	15	0.25	1.0
35.43	104.5	156.1	104.2	3.2	-12.2	3.1	5	silty SAND to sandy SILT	120	3.0	35	25	57	37	-	-	24	2.35	16	0.16	0.5
35.60	120.5	146.6	120.3	2.8	-12.3	2.4	5	silty SAND to sandy SILT	120	3.0	40	28	62	38	-	-	20	2.22	16	0.26	1.4
35.76	133.9	141.9	133.7	2.5	-12.4	1.9	5	silty SAND to sandy SILT	120	3.0	45	31	65	39	-	-	17	2.13	16	0.38	2.0
35.93	166.8	154.3	166.5	2.7	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	33	23	72	40	-	-	13	2.01	16	0.19	1.4
36.09	189.0	171.2	188.7	3.3	-12.5	1.8	6	clean SAND to silty SAND	125	5.0	38	27	76	40	-	-	13	1.99	16	0.00	0.0
36.26	209.1	177.4	208.9	3.2	-12.6	1.5	6	clean SAND to silty SAND	125	5.0	42	29	80	41	-	-	11	1.92	16	0.00	0.0
36.42	210.1	175.6	209.8	3.1	-12.6	1.5	6	clean SAND to silty SAND	125	5.0	42	29	80	41	-	-	11	1.91	16	0.00	0.0
36.58	198.6	167.6	198.3	2.9	-12.5	1.5	6	clean SAND to silty SAND	125	5.0	40	28	78	41	-	-	11	1.92	16	0.00	0.0
36.75	193.3	170.4	193.0	3.2	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	39	27	77	40	-	-	12	1.97	16	0.00	0.0
36.91	205.8	180.0	205.6	3.5	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	41	29	79	41	-	-	12	1.96	16	0.00	0.0
37.08	206.4	176.2	206.2	3.2	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	41	29	79	41	-	-	11	1.94	16	0.00	0.0
37.24	190.5	167.0	190.2	3.1	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	38	26	76	40	-	-	12	1.97	16	0.00	0.0
37.40	176.5	150.7	176.2	2.4	-12.5	1.4	6	clean SAND to silty SAND	125	5.0	35	24	74	40	-	-	11	1.94	16	0.24	1.7
37.57	163.0	149.2	162.7	2.6	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	33	23	71	39	-	-	13	2.02	16	0.26	1.7
37.73	159.9	157.8	159.7	3.1	-11.7	2.0	5	silty SAND to sandy SILT	120	3.0	53	37	70	39	-	-	15	2.08	16	0.17	1.1
37.90	184.6	174.0	184.4	3.6	-12.1	2.0	5	silty SAND to sandy SILT	120	3.0	62	43	75	40	-	-	14	2.04	16	0.00	0.0
38.06	210.1	177.2	209.8	3.3	-12.4	1.6	6	clean SAND to silty SAND	125	5.0	42	29	79	41	-	-	11	1.93	16	0.00	0.0
38.22	200.1	153.9	199.8	2.0	-12.6	1.0	6	clean SAND to silty SAND	125	5.0	40	28	78	41	-	-	8	1.81	16	0.21	1.7
38.39	175.0	147.0	174.7	2.3	-12.5	1.3	6	clean SAND to silty SAND	125	5.0	35	24	73	40	-	-	11	1.93	16	0.32	2.0
38.55	177.4	148.5	177.1	2.3	-12.4	1.3	6	clean SAND to silty SAND	125	5.0	35	24	74	40	-	-	11	1.93	16	0.29	1.9
38.72	266.6	199.9	266.4	3.2	-12.7	1.2	6	clean SAND to silty SAND	125	5.0	53	37	87	42	-	-	8	1.78	16	0.00	0.0
38.88	423.9	290.8	423.7	3.7	-12.9	0.9	6	clean SAND to silty SAND	125	5.0	85	58	95	44	-	-	5	1.54	16	0.00	0.0
39.04	401.4	280.1	401.2	5.0	-11.8	1.2	6	clean SAND to silty SAND	125	5.0	80	55	95	44	-	-	6	1.67	16	0.00	0.0
39.21	343.6	247.1	343.3	4.3	-12.9	1.3	6	clean SAND to silty SAND	125	5.0	69	47	95	43	-	-	6	1.72	16	0.00	0.0
39.37	302.6	225.7	302.4	4.1	-12.6	1.3	6	clean SAND to silty SAND	125	5.0	61	41	91	43	-	-	8	1.78	16	0.00	0.0
39.54	262.3	191.0	262.1	2.7	-12.1	1.1	6	clean SAND to silty SAND	125	5.0	52	36	86	42	-	-	7	1.74	16	0.00	0.0
39.70	247.4	177.0	247.1	2.2	-12.0	0.9	6	clean SAND to silty SAND	125	5.0	49	34	84	42	-	-	6	1.72	16	0.00	0.0
39.86	250.3	173.9	250.1	2.0	-12.0	0.8	6	clean SAND to silty SAND	125	5.0	50	34	85	42	-	-	6	1.67	16	0.00	0.0
40.03	260.7	177.2	260.4	1.7	-12.0	0.7	6	clean SAND to silty SAND	125	5.0	52	35	86	42	-	-	5	1.61	16	0.00	0.0
40.19	255.4	173.4	255.1	1.5	-12.0	0.6	6	clean SAND to silty SAND	125	5.0	51	35	85	42	-	-	5	1.59	16	0.00	0.0
40.36	244.7	165.9	244.4	1.0	-12.1	0.4	6	clean SAND to silty SAND	125	5.0	49	33	84	41	-	-	5	1.51	16	0.00	0.0
40.52	191.3	133.6	191.1	1.1	-11.7	0.6	6	clean SAND to silty SAND	125	5.0	38	26	76	40	-	-	6	1.69	16	0.91	3.8
40.68	137.5	123.2	137.3	1.8	-11.4	1.3	6	clean SAND to silty SAND	125	5.0	28	19	65	38	-	-	13	2.02	16	1.45	7.5
40.85	65.2	113.2	64.9	1.6	-11.1	2.6	5	silty SAND to sandy SILT	120	3.0	22	15	40	34	-	-	29	2.46	16	1.89	51.2
41.01	27.3	-	27.2	1.2	-8.9	4.7	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	4.0	62	3.05	15	-	-
41.18	23.4	-	23.3	0.5	-8.4	2.4	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.5	3.3	54	2.94	15	-	-
41.34	22.7	-	22.5	0.4	-8.2	2.1	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.2	53	2.92	15	-	-
41.50	21.5	-	21.3	0.6	-8.1	3.0	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	3.0	60	3.03	15	-	-
41.67	27.3	-	27.1	0.6	-8.0	2.4	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	3.9	51	2.88	15	-	-
41.83	26.0	-	25.9	0.8	-7.9	3.6	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.7	3.7	58	3.00	15	-	-
42.00	29.7	-	29.6	0.6	-7.6	2.0	4	clayy SILT to silty CLAY	115	2.0	15	7	-	-	2.0	4.3	47	2.81	15	-	-
42.16	25.9	-	25.8	0.5	-7.5	2.2	4	clayy SILT to silty CLAY	115	2.0	13	6	-	-	1.7	3.7	51	2.88	15	-	-
42.32	24.9	-	24.8	0.6	-7.2	2.7	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.6	3.5	55	2.95	15	-	-
42.49	26.7	-	26.5	0.7	-6.9	3.1	3	silty CLAY to CLAY	115	1.5	18	8	-	-	1.7	3.8	55	2.95	15	-	-
42.65	30.9	-	30.8	1.1	-6.8	4.0	3	silty CLAY to CLAY	115	1.5	21	10	-	-	2.0	4.4	56	2.97	15	-	-
42.82	33.6	-	33.4	1.9	-6.4	6.1	3	silty CLAY to CLAY	115	1.5	22	11	-	-	2.2	4.8	62	3.06	15	-	-
42.98	72.0	-	71.9	2.9	-6.3	4.2	4	clayy SILT to silty CLAY	115	2.0	36	17	-	-	4.9	9.9	40	2.69	15	-	-
43.15	109.4	173.7	109.3	4.0	-7.2	3.8	4	clayy SILT to silty CLAY	115	2.0	55	36	-	-	7.6	9.9	27	2.42	15	0.00	0.0
43.31	89.3	-	89.2	4.1	-8.7	4.7	4	clayy SILT to silty CLAY	115	2.0	45	21	-	-	6.2	9.9	38	2.65	15	-	-
43.47	84.6	-	84.5	3.8	-9.1	4.6	4	clayy SILT to silty CLAY	115	2.0	42	20	-	-	5.8	9.9	39	2.66	15	-	-
43.64	113.3	158.5	113.2	3.4	-9.8	3.1	5	silty SAND to sandy SILT	120	3.0	38	25	58	37	-	-	24	2.35	16	0.16	0.6
43.80	111.5	129.1	111.2	2.3	-11.0	2.1	5	silty SAND to sandy SILT	120	3.0	37	25	57	37	-	-	20	2.23	16	1.05	6.2
43.97	105.8	127.5	105.6	2.2	-11.4	2.2	5	silty SAND to sandy SILT	120	3.0	35	23	55	36	-	-	21	2.26	16	1.14	7.5
44.13	100.8	140.1	100.6	2.7	-11.1	2.7	5	silty SAND to sandy SILT	120	3.0	34	22	54	36	-	-	24	2.34	16	0.45	2.3
44.29	75.1	-	74.9	2.7	-11.7	3.7	4	clayy SILT to silty CLAY	115	2.0	38	17	-	-	5.2	9.9	37	2.64	15	-	-
44.46	68.8	-	68.5	3.0	-11.8	4.6	3	silty CLAY to CLAY	115	1.5	46	21	-	-	4.7	9.9	42	2.74	15	-	-
44.62	83.6	147.3	83.3	2.8	-11.9	3.5	4	clayy SILT to silty CLAY	115	2.0	42	28	-	-	5.8	9.9	30	2.48	15	0.26	0.8
44.79	93.6	137.5	93.4	2.6	-11.8	2.8	5	silty SAND to sandy SILT	120	3.0	31	21	51	36	-	-	26	2.38	16	0.53	2.9
44.95	56.7	-	56.4	1.8	-11.9	3.4	4	clayy SILT to silty CLAY	115	2.0	28	13	-	-	3.8	8.2	41	2.71	15	-	-
45.11	41.1	-	40.9	1.8	-11.9	4.7	3	silty CLAY to CLAY	115	1.5	27	13	-	-	2.8	5.8	53	2.92	15	-	-
45.28	36.4	-	36.1	1.2	-11.7	3.5	3	silty CLAY to CLAY	115	1.5	24	11	-	-	2.4	5.1	51	2.88	15	-	-
45.44	29.6	-	29.4	1.1	-11.6	4.3	3	silty CLAY to CLAY	115	1.5	20	9	-	-	1.9	4.1	59	3.01	15	-	-
45.61	32.3	-	32.1	1.7	-11.5	5.8	3	silty CLAY to CLAY	115	1.5	22	10	-	-	2.1	4.5	63	3.07	15	-	-
45.77	55.8	-	55.6	2.1	-11.5	4.0	3	silty CLAY to CLAY	115	1.5	37	17	-	-	3.8	8.0	44	2.77	15	-	-
45.93	71.3	-	71.0	2.7	-11.6	4.0	4	clayy SILT to silty CLAY	115	2.0	36	16	-	-	4.9	9.9	40	2.69	15	-	-
46.10	79.1	-	78.8	2.7	-11.5	3.5	4	clayy SILT to silty CLAY	115	2.0	40	18	-	-	5.4	9.9	36	2.61	15	-	-
46.26	113.7	137.9	113.4	2.7	-11.6	2.4	5	silty SAND to sandy SILT	120	3.0	38	25	57	37	-	-	21	2.27	16	0.57	3.1

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS* tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT* R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR - -	Fin Ic %	Ic* SBT Indx	Nk -	Vol* Strn %	Cycl SStn %
46.43	122.9	133.3	122.7	2.5	-11.8	2.1	5	silty SAND to sandy SILT	120	3.0	41	27	60	37	-	-	19	2.20	16	0.84	4.4
46.59	109.9	132.1	109.7	2.4	-11.6	2.3	5	silty SAND to sandy SILT	120	3.0	37	24	56	37	-	-	21	2.27	16	0.87	5.1
46.75	69.2	-	69.0	2.3	-11.5	3.5	4	clayy SILT to silty CLAY	115	2.0	35	16	-	-	4.7	9.9	38	2.66	15	-	-
46.92	47.7	-	47.5	2.7	-11.4	6.0	3	silty CLAY to CLAY	115	1.5	32	14	-	-	3.2	6.7	55	2.94	15	-	-
47.08	48.2	-	48.0	2.7	-11.5	5.9	3	silty CLAY to CLAY	115	1.5	32	14	-	-	3.2	6.7	54	2.94	15	-	-
47.25	70.6	113.9	70.4	1.7	-11.5	2.5	5	silty SAND to sandy SILT	120	3.0	24	15	41	34	-	-	28	2.44	16	1.90	48.4
47.41	100.8	112.0	100.6	1.7	-11.5	1.8	5	silty SAND to sandy SILT	120	3.0	34	22	53	36	-	-	20	2.22	16	2.10	29.7
47.57	113.9	125.1	113.7	2.2	-11.0	2.0	5	silty SAND to sandy SILT	120	3.0	38	25	57	37	-	-	19	2.21	16	1.33	9.3
47.74	122.6	117.9	122.4	1.8	-11.2	1.5	5	silty SAND to sandy SILT	120	3.0	41	26	59	37	-	-	16	2.12	16	1.81	14.7
47.90	115.6	114.6	115.4	1.8	-11.3	1.6	5	silty SAND to sandy SILT	120	3.0	39	25	57	37	-	-	17	2.14	16	2.02	21.5
48.07	97.7	131.1	97.5	2.4	-11.3	2.5	5	silty SAND to sandy SILT	120	3.0	33	21	52	36	-	-	24	2.34	16	0.89	5.8
48.23	68.5	-	68.3	2.6	-11.3	3.9	4	clayy SILT to silty CLAY	115	2.0	34	15	-	-	4.7	9.6	41	2.71	15	-	-
48.39	77.9	-	77.7	2.9	-11.2	3.8	4	clayy SILT to silty CLAY	115	2.0	39	17	-	-	5.3	9.9	38	2.66	15	-	-
48.56	99.6	147.9	99.4	3.0	-11.4	3.1	4	clayy SILT to silty CLAY	115	2.0	50	32	-	-	6.9	9.9	26	2.40	15	0.27	1.1
48.72	105.9	157.5	105.7	3.4	-11.4	3.3	4	clayy SILT to silty CLAY	115	2.0	53	34	-	-	7.3	9.9	26	2.40	15	0.17	0.6
48.89	110.4	159.2	110.1	3.5	-11.5	3.3	4	clayy SILT to silty CLAY	115	2.0	55	35	-	-	7.6	9.9	26	2.38	15	0.16	0.5
49.05	120.3	155.5	120.1	3.4	-11.6	2.9	5	silty SAND to sandy SILT	120	3.0	40	26	58	37	-	-	23	2.32	16	0.19	0.9
49.22	124.9	154.1	124.7	3.4	-11.7	2.8	5	silty SAND to sandy SILT	120	3.0	42	27	60	37	-	-	22	2.29	16	0.20	1.0
49.38	115.8	135.9	115.6	2.6	-11.7	2.3	5	silty SAND to sandy SILT	120	3.0	39	25	57	37	-	-	21	2.26	16	0.67	3.8
49.54	71.7	-	71.5	2.2	-11.7	3.2	4	clayy SILT to silty CLAY	115	2.0	36	16	-	-	4.9	9.9	37	2.64	15	-	-
49.71	42.2	-	42.0	1.9	-11.6	4.9	3	silty CLAY to CLAY	115	1.5	28	12	-	-	2.8	5.6	55	2.94	15	-	-
49.87	39.7	-	39.5	1.6	-11.5	4.4	3	silty CLAY to CLAY	115	1.5	26	11	-	-	2.6	5.3	54	2.93	15	-	-
50.04	46.7	-	46.4	1.8	-11.4	4.2	3	silty CLAY to CLAY	115	1.5	31	13	-	-	3.1	6.2	50	2.87	15	-	-
50.20	37.4	-	37.2	1.6	-11.4	4.8	3	silty CLAY to CLAY	115	1.5	25	11	-	-	2.5	4.9	57	2.98	15	-	-

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

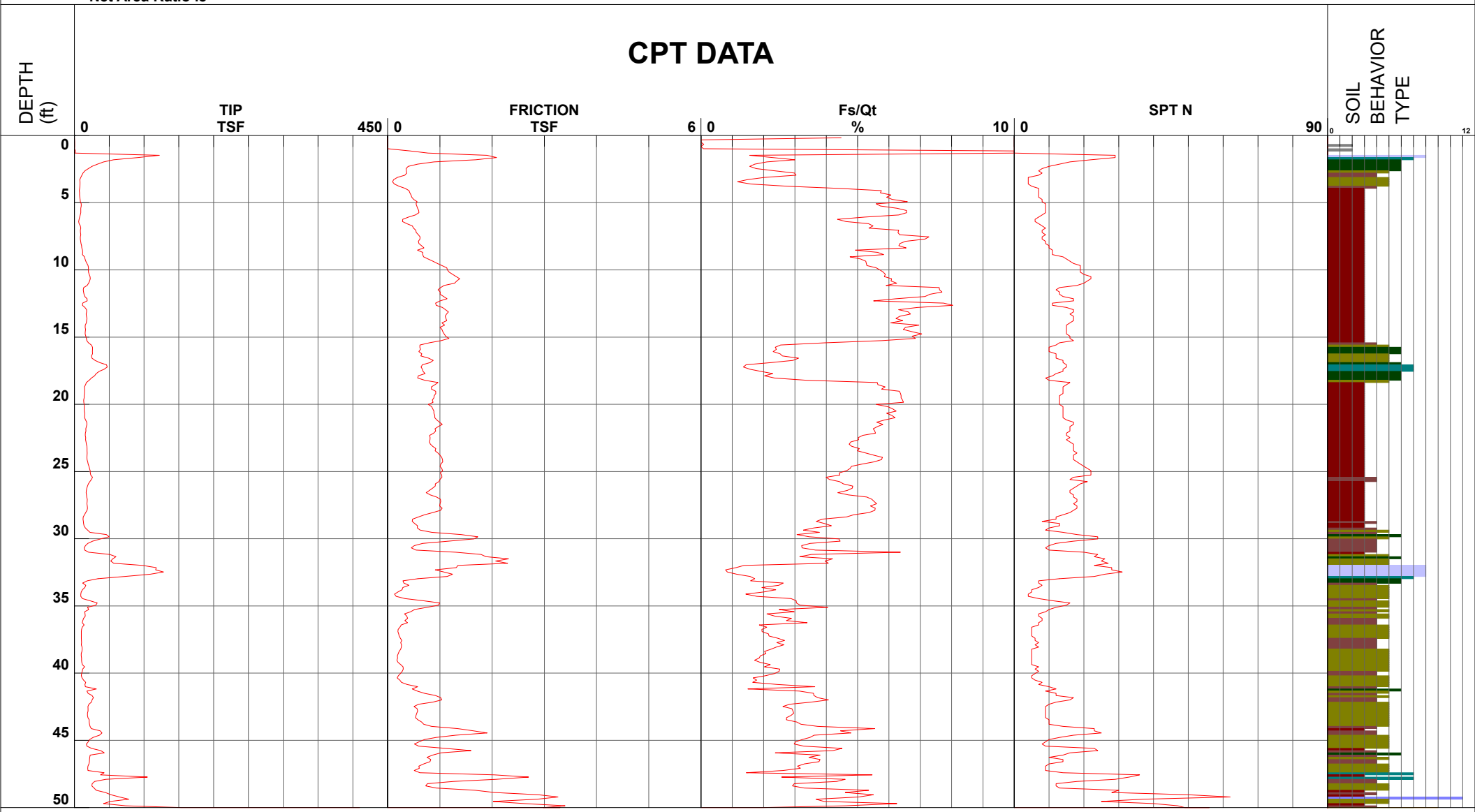
Middle Earth Geo Testing

Gorian & Associates

Project	Reseda High School	Operator	RC-JM	Filename	SDF(712).cpt
Job Number	2880-62-0-100	Cone Number	DDG1350	GPS	
Hole Number	CPT-08	Date and Time	4/12/2017 10:29:41 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		31.30 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(712).cpt
CPT Date: 4/12/2017 10:29:41 AM
GW During Test: 31 ft

Sounding ID: CPT-08
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt * PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat * Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT * R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl * SStn %
0.33	1.1	-	1.1	0.0	0.0	0.1	1	sensitive fine SOIL	115	2.0	1	0	-	-	0.1	9.9	95	4.01	15	N/A	N/A
0.49	1.1	-	1.1	0.0	0.0	0.1	1	sensitive fine SOIL	115	2.0	1	0	-	-	0.1	9.9	95	3.90	15	N/A	N/A
0.66	1.1	-	1.1	0.0	0.0	0.1	1	sensitive fine SOIL	115	2.0	1	0	-	-	0.1	9.3	95	3.82	15	N/A	N/A
0.82	1.1	-	1.1	0.0	0.0	0.1	1	sensitive fine SOIL	115	2.0	1	0	-	-	0.1	7.4	95	3.87	15	N/A	N/A
0.98	1.1	-	1.1	0.0	0.0	0.1	1	sensitive fine SOIL	115	2.0	1	0	-	-	0.1	6.1	95	4.16	15	N/A	N/A
1.15	1.5	-	1.5	0.4	0.0	9.9	2	Organic SOILS - Peats	100	1.0	1	2	-	-	0.1	7.1	95	3.83	10	N/A	N/A
1.31	1.1	-	1.1	0.8	0.0	9.9	2	Organic SOILS - Peats	100	1.0	1	1	-	-	0.1	4.6	95	4.05	10	N/A	N/A
1.48	122.0	222.5	122.0	1.9	0.2	1.6	6	clean SAND to silty SAND	125	5.0	24	39	89	48	-	-	9	1.84	16	N/A	N/A
1.64	91.6	200.6	91.6	2.1	0.3	2.3	5	silty SAND to sandy SILT	120	3.0	31	49	80	48	-	-	14	2.05	16	N/A	N/A
1.80	56.3	168.9	56.3	1.7	0.5	3.0	5	silty SAND to sandy SILT	120	3.0	19	30	64	48	-	-	22	2.28	16	N/A	N/A
1.97	42.2	122.3	42.2	0.9	0.4	2.1	5	silty SAND to sandy SILT	120	3.0	14	23	54	47	-	-	21	2.25	16	N/A	N/A
2.13	33.4	99.6	33.4	0.6	0.2	1.7	5	silty SAND to sandy SILT	120	3.0	11	18	46	45	-	-	21	2.27	16	N/A	N/A
2.30	25.1	84.3	25.1	0.4	0.5	1.6	5	silty SAND to sandy SILT	120	3.0	8	13	37	44	-	-	24	2.34	16	N/A	N/A
2.46	20.1	81.9	20.1	0.4	0.5	1.8	5	silty SAND to sandy SILT	120	3.0	7	11	30	42	-	-	29	2.45	16	N/A	N/A
2.62	15.1	-	15.2	0.4	0.5	2.4	4	clayy SILT to silty CLAY	115	2.0	8	12	-	-	1.1	9.9	37	2.63	15	N/A	N/A
2.79	12.3	-	12.3	0.4	0.4	3.0	4	clayy SILT to silty CLAY	115	2.0	6	10	-	-	0.9	9.9	44	2.77	15	N/A	N/A
2.95	10.9	-	10.9	0.3	0.5	3.1	4	clayy SILT to silty CLAY	115	2.0	5	9	-	-	0.8	9.9	47	2.81	15	N/A	N/A
3.12	9.2	-	9.2	0.2	0.4	2.1	4	clayy SILT to silty CLAY	115	2.0	5	7	-	-	0.6	9.9	45	2.77	15	N/A	N/A
3.28	7.7	-	7.7	0.1	0.5	1.5	4	clayy SILT to silty CLAY	115	2.0	4	6	-	-	0.5	9.9	44	2.77	15	N/A	N/A
3.45	8.0	-	8.0	0.1	0.4	1.2	4	clayy SILT to silty CLAY	115	2.0	4	6	-	-	0.6	9.9	41	2.70	15	N/A	N/A
3.61	8.1	-	8.1	0.1	0.4	1.6	4	clayy SILT to silty CLAY	115	2.0	4	6	-	-	0.6	9.9	44	2.77	15	N/A	N/A
3.77	7.9	-	7.9	0.2	0.4	2.8	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.9	53	2.91	15	N/A	N/A
3.94	7.6	-	7.6	0.3	0.4	4.5	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.9	61	3.04	15	N/A	N/A
4.10	7.1	-	7.1	0.4	0.2	6.0	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.6	69	3.14	15	N/A	N/A
4.27	7.4	-	7.4	0.4	0.3	5.9	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.6	67	3.13	15	N/A	N/A
4.43	7.4	-	7.4	0.4	0.2	6.3	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.2	69	3.15	15	N/A	N/A
4.59	7.8	-	7.8	0.5	0.2	6.1	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	9.4	67	3.12	15	N/A	N/A
4.76	8.1	-	8.1	0.5	-0.1	6.3	3	silty CLAY to CLAY	115	1.5	5	9	-	-	0.6	9.5	66	3.11	15	N/A	N/A
4.92	8.5	-	8.5	0.6	-0.3	6.8	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.6	67	3.12	15	N/A	N/A
5.09	9.7	-	9.7	0.5	0.0	5.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.7	9.9	60	3.03	15	N/A	N/A
5.25	9.7	-	9.7	0.6	0.0	5.9	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.7	9.9	61	3.04	15	N/A	N/A
5.41	9.1	-	9.1	0.6	-0.3	6.5	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.3	64	3.08	15	N/A	N/A
5.58	9.0	-	9.0	0.6	-0.2	6.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.0	66	3.10	15	N/A	N/A
5.74	9.1	-	9.1	0.6	-0.3	6.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	8.8	65	3.10	15	N/A	N/A
5.91	8.4	-	8.4	0.5	-1.1	6.6	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	7.8	67	3.12	15	N/A	N/A
6.07	7.6	-	7.6	0.4	0.0	5.5	3	silty CLAY to CLAY	115	1.5	5	8	-	-	0.5	6.9	65	3.10	15	N/A	N/A
6.23	6.6	-	6.6	0.3	-0.3	4.6	3	silty CLAY to CLAY	115	1.5	4	7	-	-	0.4	5.8	66	3.10	15	N/A	N/A
6.40	6.1	-	6.1	0.3	-0.2	4.9	3	silty CLAY to CLAY	115	1.5	4	7	-	-	0.4	5.1	69	3.15	15	N/A	N/A
6.56	6.9	-	6.9	0.4	0.3	5.7	3	silty CLAY to CLAY	115	1.5	5	7	-	-	0.5	5.7	69	3.15	15	N/A	N/A
6.73	8.6	-	8.6	0.5	-0.1	5.8	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	7.0	64	3.07	15	N/A	N/A
6.89	9.3	-	9.3	0.5	0.0	5.6	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	7.4	61	3.04	15	N/A	N/A
7.05	8.5	-	8.5	0.5	0.2	6.6	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	6.6	67	3.12	15	N/A	N/A
7.22	8.7	-	8.7	0.5	0.4	6.6	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	6.6	66	3.11	15	N/A	N/A
7.38	9.3	-	9.3	0.6	-0.1	6.6	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	6.9	65	3.09	15	N/A	N/A
7.55	8.5	-	8.5	0.6	-1.4	7.7	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	6.1	70	3.16	15	N/A	N/A
7.71	8.6	-	8.6	0.6	-2.5	7.5	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	6.1	69	3.15	15	N/A	N/A
7.87	9.0	-	9.0	0.6	-1.7	6.9	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	6.2	66	3.11	15	N/A	N/A
8.04	9.4	-	9.4	0.6	-1.6	6.7	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	6.4	64	3.09	15	N/A	N/A
8.20	10.2	-	10.2	0.6	-1.7	6.6	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	6.8	62	3.06	15	N/A	N/A
8.37	10.6	-	10.6	0.7	-1.6	6.9	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	6.9	62	3.05	15	N/A	N/A
8.53	11.6	-	11.5	0.6	-1.4	5.1	3	silty CLAY to CLAY	115	1.5	8	12	-	-	0.8	7.4	55	2.94	15	N/A	N/A
8.69	11.9	-	11.9	0.7	-1.2	5.9	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	7.5	57	2.97	15	N/A	N/A
8.86	11.5	-	11.5	0.7	-1.0	6.1	3	silty CLAY to CLAY	115	1.5	8	12	-	-	0.8	7.1	58	2.99	15	N/A	N/A
9.02	14.5	-	14.5	0.7	-0.9	4.9	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	8.9	49	2.86	15	N/A	N/A
9.19	15.2	-	15.2	0.8	-0.8	5.3	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	9.2	49	2.86	15	N/A	N/A
9.35	16.5	-	16.5	0.9	-0.7	5.4	3	silty CLAY to CLAY	115	1.5	11	18	-	-	1.1	9.8	48	2.84	15	N/A	N/A
9.51	18.0	-	18.0	1.0	-0.6	5.4	3	silty CLAY to CLAY	115	1.5	12	19	-	-	1.2	9.9	47	2.81	15	N/A	N/A
9.68	19.6	-	19.6	1.0	-0.6	5.4	3	silty CLAY to CLAY	115	1.5	13	21	-	-	1.3	9.9	45	2.79	15	N/A	N/A
9.84	20.2	-	20.2	1.1	-0.5	5.8	3	silty CLAY to CLAY	115	1.5	13	22	-	-	1.4	9.9	46	2.79	15	N/A	N/A
10.01	20.1	-	20.0	1.1	-0.5	5.9	3	silty CLAY to CLAY	115	1.5	13	21	-	-	1.4	9.9	46	2.80	15	N/A	N/A
10.17	20.3	-	20.3	1.2	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.4	9.9	46	2.81	15	N/A	N/A
10.34	21.2	-	21.2	1.2	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	14	23	-	-	1.5	9.9	46	2.80	15	N/A	N/A
10.50	22.5	-	22.5	1.3	-0.1	6.0	3	silty CLAY to CLAY	115	1.5	15	24	-	-	1.5	9.9	45	2.78	15	N/A	N/A
10.66	22.7	-	22.7	1.4	-0.1	6.3	3	silty CLAY to CLAY	115	1.5	15	24	-	-	1.6	9.9	45	2.78	15	N/A	N/A
10.83	21.8	-	21.8	1.3	-0.1	6.2	3	silty CLAY to CLAY	115	1.5	15	23	-	-	1.5	9.9	46	2.80	15	N/A	N/A
10.99	20.5	-	20.5	1.3	0.1	6.4	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.4	9.9	48	2.83	15	N/A	N/A
11.16	18.3	-	18.3	1.1	0.0	6.1	3	silty CLAY to CLAY	115	1.5	12	19	-	-	1.2	9.1	49	2.85	15	N/A	N/A
11.32	13.3	-	13.3	1.0	-1.6	8.0	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	6.4	61	3.04	15	N/A	N/A
11.48	12.7	-	12.7	1.0	0.2	8.0	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.0	63	3.07	15	N/A	N/A
11.65	13.1	-	13.1	1.0	-1.3	8.1	3	silty CLAY to CLAY	115	1.5	9	13	-	-	0.9	6.1	63	3.06	15	N/A	N/A
11.81	13.8	-	13.7	1.0	-1.8	7.7	3	silty CLAY to CLAY	115	1.5	9	13	-	-	0.9	6.3	61	3.04	15	N/A	N/A
11.98	15.0	-	15.0	1.1	-0.1	7.5	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	6.8	59	3.00	15	N/A	N/A
12.14	18.3	-	18.3	1.1	0.1	6.5	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.3	52	2.90	15	N/A	N/A
12.30	18.3	-	18.3	1.0	0.1	5.7	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.2	50	2.87	15	N/A	N/A
12.47	11.9	-	11.9	0.9	0.1	8.2	3	silty CLAY to CLAY	115	1.5	8	11	-	-	0.8	5.1	67	3.12	15	N/A	N/A
12.63	11.6	-	11.6	0.9	0.1	8.6	3	silty CLAY to CLAY	115	1.5	8	11	-	-	0.8	4.9	69	3.15	15	N/A	N/A
12.80	15.2	-	15.2	1.0	0.3	7.3	3	silty CLAY to CLAY	115	1.5	10	14	-	-	1.0	6.5	59	3.01	15	N/A	N/A
12.96	17.6	-	17.6	1.1	0.3	6.6	3	silty CLAY to CLAY	115	1.5	12	16	-	-	1.2	7.4	54	2.94	15	N/A	N/A
13.12	17.6	-	17.6	1.2	0.3	6.9	3	silty CLAY to CLAY	115	1.5	12	16	-	-	1.2	7.3	56	2.96	15	N/A	N/A
13.29	16.8	-	16.9	1.1	0.5	7.0	3	silty CLAY to CLAY	115	1.5	11	15	-	-	1.1	6.9	57	2.98	15	N/A	N/A
13.45	17.4	-	17.4	1.1	0.6	6.6	3	silty CLAY to CLAY	115	1.5	12	15	-	-	1.2	7.1	56	2.96	15	N/A	N/A
13.62	17.9	-	17.9	1.1	0.5	6.5	3	silty CLAY to CLAY	115	1.5	12	15	-	-	1.2	7.2	55	2.94	15	N/A	N/A
13.78	17.6	-	17.6	1.1	0.6	6.7	3	silty CLAY to CLAY	115	1.5	12	15	-	-	1.2	7.0	56	2.97	15	N/A	N/A
13.94	17.2	-	17.2	1.0	0.5	6.4	3	silty CLAY to CLAY	115	1.5	11	14	-	-	1.2	6.7	56	2.96	15	N/A	N/A
14.11	15.7	-	15.7	1.1	0.4	7.3	3	silty CLAY to CLAY	115	1.5	10	13	-	-	1.1	6.0	61	3.04	15	N/A	N/A
14.27	15.4	-	15.4	1.0	0.5	6.9	3	silty CLAY to CLAY	115	1.5	10	12	-	-	1.0	5.9	60	3.03	15	N/A	N/A
14.44	16.1	-	16.1	1.0	0.8	6.8	3	silty CLAY to CLAY	115	1.5	11	13	-	-	1.1	6.1	59	3.01	15	N/A	N/A
14.60	15.7	-	15.7	1.1	0.5	7.1	3	silty CLAY to CLAY	115	1.5	10	12	-	-	1.0	5.8	61	3.04	15	N/A	N/A
14.76	15.4	-	15.4	1.1	0.2	7.5	3	silty CLAY to CLAY	115	1.5	10	12	-	-	1.0	5.6	63	3.06	15	N/A	N/A
14.93	16.5	-	16.5	1.1	0.1	7.1	3	silty CLAY to CLAY	115	1.5	11	13	-	-	1.1	6.0	61	3.03	15	N/A	N/A
15.09	17.2	-	17.1	1.2	-0.5	7.2	3	silty CLAY to CLAY	115	1.5	11	13	-	-	1.2	6.2	60	3.02	15	N/A	N/A
15.26	17.8	-	17.7	1.0	-1.8	6.1	3	silty CLAY to CLAY	115	1.5	12	14	-	-	1.2	6.4	56	2.96	15	N/A	N/A
15.42	20.1	-	20.0	0.8	-2.8	4.2	3	silty CLAY to CLAY	115	1.5	13	15	-	-	1.4	7.1	47	2.82	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(712).cpt
CPT Date: 4/12/2017 10:29:41 AM
GW During Test: 31 ft

Sounding ID: CPT-08
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	* qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	* Mat Typ Zon	* Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	* SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	* Fin Ic %	* Ic SBT Indx	Nk -	* Vol Strn %	* Cycl SStn %
15.58	24.2	-	24.2	0.6	0.1	2.6	4	clayy SILT to silty CLAY	115	2.0	12	14	-	-	1.6	8.6	37	2.63	15	N/A	N/A
15.75	25.9	-	25.9	0.6	0.2	2.5	4	clayy SILT to silty CLAY	115	2.0	13	14	-	-	1.8	9.1	36	2.61	15	N/A	N/A
15.91	26.0	-	26.0	0.6	0.1	2.5	4	clayy SILT to silty CLAY	115	2.0	13	14	-	-	1.8	9.0	36	2.61	15	N/A	N/A
16.08	25.9	-	25.9	0.6	0.2	2.4	4	clayy SILT to silty CLAY	115	2.0	13	13	-	-	1.8	8.9	36	2.60	15	N/A	N/A
16.24	26.0	-	26.0	0.7	0.1	2.6	4	clayy SILT to silty CLAY	115	2.0	13	14	-	-	1.8	8.8	36	2.62	15	N/A	N/A
16.40	24.4	-	24.4	0.6	0.1	2.7	4	clayy SILT to silty CLAY	115	2.0	12	13	-	-	1.7	8.2	38	2.65	15	N/A	N/A
16.57	25.2	-	25.2	0.8	0.1	3.2	4	clayy SILT to silty CLAY	115	2.0	13	13	-	-	1.7	8.4	40	2.69	15	N/A	N/A
16.73	29.7	-	29.7	0.9	0.1	3.0	4	clayy SILT to silty CLAY	115	2.0	15	15	-	-	2.0	9.8	36	2.62	15	N/A	N/A
16.90	36.1	98.2	36.1	0.8	0.1	2.3	4	clayy SILT to silty CLAY	115	2.0	18	18	-	-	2.5	9.9	31	2.50	15	N/A	N/A
17.06	46.2	87.0	46.2	0.7	0.1	1.5	5	silty SAND to sandy SILT	120	3.0	15	15	41	36	-	-	22	2.29	16	N/A	N/A
17.23	47.2	85.3	47.2	0.6	0.1	1.4	5	silty SAND to sandy SILT	120	3.0	16	15	41	36	-	-	21	2.27	16	N/A	N/A
17.39	42.6	87.0	42.7	0.7	0.1	1.6	5	silty SAND to sandy SILT	120	3.0	14	14	38	36	-	-	24	2.35	16	N/A	N/A
17.55	35.6	89.2	35.6	0.7	0.2	2.0	5	silty SAND to sandy SILT	120	3.0	12	11	32	34	-	-	29	2.47	16	N/A	N/A
17.72	31.3	93.4	31.3	0.7	0.1	2.4	4	clayy SILT to silty CLAY	115	2.0	16	15	-	-	2.1	9.8	34	2.56	15	N/A	N/A
17.88	28.9	85.6	28.9	0.6	0.1	2.1	4	clayy SILT to silty CLAY	115	2.0	14	14	-	-	2.0	8.9	33	2.56	15	N/A	N/A
18.05	24.4	-	24.4	0.6	0.2	2.5	4	clayy SILT to silty CLAY	115	2.0	12	12	-	-	1.7	7.4	38	2.66	15	N/A	N/A
18.21	21.1	-	21.1	0.7	0.2	3.6	3	silty CLAY to CLAY	115	1.5	14	13	-	-	1.4	6.3	47	2.82	15	N/A	N/A
18.37	17.1	-	17.1	1.0	0.1	6.0	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.0	61	3.04	15	N/A	N/A
18.54	16.1	-	16.1	0.9	-0.1	6.0	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.6	63	3.07	15	N/A	N/A
18.70	14.3	-	14.3	0.8	0.1	6.4	3	silty CLAY to CLAY	115	1.5	10	9	-	-	0.9	4.0	67	3.13	15	N/A	N/A
18.87	14.5	-	14.5	0.8	0.1	6.2	3	silty CLAY to CLAY	115	1.5	10	9	-	-	1.0	4.1	67	3.12	15	N/A	N/A
19.03	14.5	-	14.5	0.9	-0.3	6.8	3	silty CLAY to CLAY	115	1.5	10	9	-	-	0.9	4.0	69	3.15	15	N/A	N/A
19.19	14.5	-	14.5	0.9	-0.8	6.9	3	silty CLAY to CLAY	115	1.5	10	9	-	-	0.9	4.0	69	3.15	15	N/A	N/A
19.36	14.0	-	14.0	0.9	-0.6	6.9	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.8	71	3.17	15	N/A	N/A
19.52	13.8	-	13.8	0.9	-0.6	7.0	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.7	71	3.18	15	N/A	N/A
19.69	13.3	-	13.3	0.9	-0.8	7.0	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.5	73	3.20	15	N/A	N/A
19.85	13.5	-	13.4	0.9	-0.6	7.1	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.6	73	3.20	15	N/A	N/A
20.01	13.9	-	13.9	0.8	-1.0	6.1	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.7	69	3.15	15	N/A	N/A
20.18	14.1	-	14.1	0.8	-0.8	6.5	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.7	70	3.16	15	N/A	N/A
20.34	14.1	-	14.1	0.9	-0.6	6.7	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.6	71	3.17	15	N/A	N/A
20.51	14.2	-	14.2	0.9	-0.6	6.8	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.6	71	3.18	15	N/A	N/A
20.67	14.9	-	14.9	0.9	-0.6	6.4	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.8	69	3.15	15	N/A	N/A
20.83	14.8	-	14.8	0.9	-0.5	6.6	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	70	3.16	15	N/A	N/A
21.00	14.6	-	14.5	0.9	-0.6	6.8	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.6	71	3.18	15	N/A	N/A
21.16	16.1	-	16.1	0.9	-0.3	6.3	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.0	4.0	67	3.13	15	N/A	N/A
21.33	17.7	-	17.7	1.0	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.4	64	3.08	15	N/A	N/A
21.49	18.0	-	18.0	1.0	-0.3	6.2	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.5	65	3.09	15	N/A	N/A
21.65	17.2	-	17.2	1.0	-0.3	6.1	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.2	65	3.10	15	N/A	N/A
21.82	16.5	-	16.5	0.9	-0.2	6.0	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.0	66	3.11	15	N/A	N/A
21.98	16.6	-	16.6	0.9	-0.2	6.0	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.0	66	3.11	15	N/A	N/A
22.15	15.8	-	15.8	0.9	-0.1	6.1	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.0	3.8	68	3.14	15	N/A	N/A
22.31	15.6	-	15.6	0.8	0.0	5.6	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	67	3.12	15	N/A	N/A
22.47	16.2	-	16.2	0.8	0.1	5.5	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.8	66	3.10	15	N/A	N/A
22.64	16.1	-	16.1	0.8	0.1	5.5	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.0	3.7	66	3.11	15	N/A	N/A
22.80	16.7	-	16.7	0.8	0.2	5.2	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.9	64	3.08	15	N/A	N/A
22.97	17.3	-	17.3	0.8	0.2	5.1	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.1	4.0	63	3.07	15	N/A	N/A
23.13	17.9	-	17.9	0.9	0.3	5.2	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.1	63	3.06	15	N/A	N/A
23.30	18.2	-	18.3	0.9	0.3	5.5	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.2	64	3.07	15	N/A	N/A
23.46	18.2	-	18.2	0.9	0.3	5.4	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.1	64	3.07	15	N/A	N/A
23.62	18.3	-	18.3	1.0	0.5	5.7	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.1	65	3.09	15	N/A	N/A
23.79	18.2	-	18.2	1.0	0.6	6.0	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.0	66	3.11	15	N/A	N/A
23.95	17.9	-	17.9	1.0	0.1	6.3	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	3.9	68	3.13	15	N/A	N/A
24.12	18.2	-	18.2	1.0	0.2	6.2	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.0	67	3.12	15	N/A	N/A
24.28	19.1	-	19.1	1.1	0.3	6.0	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.2	65	3.10	15	N/A	N/A
24.44	19.8	-	19.8	1.0	0.5	5.5	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.3	63	3.07	15	N/A	N/A
24.61	20.9	-	20.9	1.0	0.6	5.2	3	silty CLAY to CLAY	115	1.5	14	10	-	-	1.4	4.5	60	3.03	15	N/A	N/A
24.77	21.7	-	21.7	1.0	0.7	5.1	3	silty CLAY to CLAY	115	1.5	14	10	-	-	1.4	4.7	59	3.01	15	N/A	N/A
24.94	22.6	-	22.6	1.1	0.8	5.0	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.5	4.9	58	2.99	15	N/A	N/A
25.10	22.8	-	22.8	1.0	0.9	4.7	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.5	4.9	57	2.98	15	N/A	N/A
25.26	23.4	-	23.4	1.0	1.0	4.7	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.5	5.0	57	2.97	15	N/A	N/A
25.43	26.0	-	26.1	1.0	1.2	4.2	3	silty CLAY to CLAY	115	1.5	17	12	-	-	1.7	5.5	52	2.91	15	N/A	N/A
25.59	24.4	-	24.4	1.0	1.2	4.4	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.1	55	2.94	15	N/A	N/A
25.76	22.2	-	22.2	1.0	1.2	4.7	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.6	58	3.00	15	N/A	N/A
25.92	20.1	-	20.1	0.9	1.2	4.9	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.1	62	3.05	15	N/A	N/A
26.08	18.8	-	18.8	0.9	1.2	5.3	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.2	3.8	65	3.09	15	N/A	N/A
26.25	17.8	-	17.8	0.9	1.2	5.3	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.6	67	3.12	15	N/A	N/A
26.41	17.2	-	17.2	0.8	1.3	5.1	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.4	67	3.12	15	N/A	N/A
26.58	16.9	-	16.9	0.7	1.3	4.8	3	silty CLAY to CLAY	115	1.5	11	7	-	-	1.1	3.3	67	3.12	15	N/A	N/A
26.74	17.3	-	17.4	0.8	1.3	5.2	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.1	3.4	67	3.13	15	N/A	N/A
26.90	17.7	-	17.7	0.9	1.4	5.8	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.1	3.4	69	3.15	15	N/A	N/A
27.07	18.5	-	18.5	1.0	1.4	6.0	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.6	69	3.15	15	N/A	N/A
27.23	18.4	-	18.4	1.0	1.5	6.0	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.5	70	3.16	15	N/A	N/A
27.40	17.9	-	17.9	1.0	1.5	6.1	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.4	71	3.17	15	N/A	N/A
27.56	18.4	-	18.4	1.0	1.5	5.9	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.5	69	3.15	15	N/A	N/A
27.72	18.7	-	18.8	1.0	1.7	6.1	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.5	70	3.16	15	N/A	N/A
27.89	18.2	-	18.3	1.0	1.7	6.1	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.4	71	3.17	15	N/A	N/A
28.05	16.2	-	16.2	0.9	1.8	6.0	3	silty CLAY to CLAY	115	1.5	11	7	-	-	1.0	3.0	74	3.21	15	N/A	N/A
28.22	14.5	-	14.5	0.7	1.8	5.5	3	silty CLAY to CLAY	115	1.5	10	6	-	-	0.9	2.6	76	3.23	15	N/A	N/A
28.38	12.7	-	12.8	0.6	1.9	5.3	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	2.2	79	3.28	15	N/A	N/A
28.54	12.3	-	12.4	0.5	1.9	4.5	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	2.1	77	3.25	15	N/A	N/A
28.71	12.8	-	12.9	0.5	2.0	4.2	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.2	75	3.22	15	N/A	N/A
28.87	13.1	-	13.1	0.5	2.0	4.5	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.3	75	3.23	15	N/A	N/A
29.04	13.7	-	13.8	0.6	2.0	4.7	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.4	75	3.23	15	N/A	N/A
29.20	15.8	-	15.8	0.6	2.0	4.0	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.0	2.8	68	3.13	15	N/A	N/A
29.36	19.1	-	19.1	0.6	2.0	3.6	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.2	3.4	61	3.03	15	N/A	N/A
29.53	22.4	-	22.4	0.8	2.1	4.1	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.5	4.0	59	3.01	15	N/A	N/A
29.69	45.9	-	46.0	1.4	2.1	3.2	4	clayy SILT to silty CLAY	115	2.0	23	13	-	-	3.1	8.5	40	2.68	15	N/A	N/A
29.86	49.9	-	49.9	1.7	-0.6	3.6	4	clayy SILT to silty CLAY	115	2.0	25	15	-	-	3.4	9.2	40	2.69	15	N/A	N/A
30.02	37.5	-	37.5	1.7	0.2	4.6	3	silty CLAY to CLAY	115	1.5	25	14	-	-	2.5	6.8	50	2.86	15	N/A	N/A
30.19	26.2	-	26.2	1.2	0.3	4.8	3	silty CLAY to CLAY	115	1.5	17	10	-	-	1.7	4.6	58	3.00	15	N/A	N/A
30.35	19.3	-	19.3	0.7	0.1	3.8	3	silty CLAY to CLAY	115	1.5	13	7	-	-	1.2	3.3	62	3.06	15	N/A	N/A
30.51	15.9	-	15.9	0.5	0.2	3.6	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.0	2.6	67	3.12	15	N/A	N/A
30.68	14.1	-	14.1	0.5	0.2	3.7	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.3	71	3.18	15	N/A	N/A
30.84	14.9	-	14.9	0.5	0.2	4.1	3	silty CLAY to CLAY	115	1.5	10	6	-	-	0.9	2.4	72	3.19	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(712).cpt
CPT Date: 4/12/2017 10:29:41 AM
GW During Test: 31 ft

Sounding ID: CPT-08
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
31.01	20.5	-	20.5	1.3	0.3	7.0	3	silty CLAY to CLAY	115	1.5	14	8	-	-	1.3	3.5	73	3.20	15	-	-
31.17	50.7	-	50.7	1.8	-0.1	3.7	4	clayy SILT to silty CLAY	115	2.0	25	14	-	-	3.5	9.1	41	2.70	15	-	-
31.33	59.7	-	59.6	1.9	-6.1	3.3	4	clayy SILT to silty CLAY	115	2.0	30	17	-	-	4.1	9.9	36	2.62	15	-	-
31.50	55.1	-	55.0	2.3	-7.1	4.3	3	silty CLAY to CLAY	115	1.5	37	20	-	-	3.8	9.8	42	2.73	15	-	-
31.66	52.2	-	52.0	2.1	-8.5	4.1	4	clayy SILT to silty CLAY	115	2.0	26	15	-	-	3.6	9.3	42	2.73	15	-	-
31.83	56.6	-	56.4	2.3	-8.5	4.2	4	clayy SILT to silty CLAY	115	2.0	28	16	-	-	3.9	9.9	41	2.71	15	-	-
31.99	97.8	106.3	97.6	1.3	-8.2	1.4	5	silty SAND to sandy SILT	120	3.0	33	24	56	37	-	-	17	2.13	16	2.22	25.9
32.15	117.5	111.0	117.4	1.3	-7.9	1.1	6	clean SAND to silty SAND	125	5.0	24	17	62	38	-	-	13	2.01	16	2.03	13.9
32.32	116.7	101.1	116.5	0.9	-10.4	0.8	6	clean SAND to silty SAND	125	5.0	23	17	61	38	-	-	11	1.91	16	2.32	21.5
32.48	127.9	109.5	127.7	1.1	-11.1	0.9	6	clean SAND to silty SAND	125	5.0	26	18	64	39	-	-	10	1.90	16	2.17	13.9
32.65	109.0	106.1	108.8	1.2	-10.7	1.2	6	clean SAND to silty SAND	125	5.0	22	16	59	38	-	-	14	2.04	16	2.23	22.6
32.81	72.6	96.6	72.3	1.1	-12.0	1.6	5	silty SAND to sandy SILT	120	3.0	24	17	45	35	-	-	21	2.27	16	2.40	41.8
32.97	33.9	-	33.6	0.6	-11.8	1.8	4	clayy SILT to silty CLAY	115	2.0	17	9	-	-	2.3	5.7	39	2.68	15	-	-
33.14	18.5	-	18.3	0.3	-11.8	1.8	4	clayy SILT to silty CLAY	115	2.0	9	5	-	-	1.2	3.0	53	2.91	15	-	-
33.30	11.8	-	11.6	0.3	-11.8	3.1	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	76	3.23	15	-	-
33.47	16.3	-	16.1	0.4	-11.7	2.8	3	silty CLAY to CLAY	115	1.5	11	6	-	-	1.0	2.6	63	3.07	15	-	-
33.63	14.9	-	14.7	0.3	-11.7	2.2	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.3	62	3.06	15	-	-
33.79	11.5	-	11.3	0.3	-11.7	2.9	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	75	3.23	15	-	-
33.96	9.8	-	9.6	0.2	-11.7	2.5	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	79	3.27	15	-	-
34.12	9.2	-	9.0	0.1	-11.7	1.8	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	76	3.24	15	-	-
34.29	9.1	-	8.8	0.2	-11.7	2.3	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	81	3.29	15	-	-
34.45	11.6	-	11.3	0.3	-11.6	3.5	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	79	3.28	15	-	-
34.61	22.2	-	22.0	0.7	-11.7	3.3	3	silty CLAY to CLAY	115	1.5	15	8	-	-	1.4	3.6	58	3.00	15	-	-
34.78	32.8	-	32.5	1.0	-11.7	3.2	3	silty CLAY to CLAY	115	1.5	22	12	-	-	2.2	5.4	49	2.84	15	-	-
34.94	30.8	-	30.6	1.0	-11.7	3.4	3	silty CLAY to CLAY	115	1.5	21	11	-	-	2.0	5.0	51	2.88	15	-	-
35.11	18.7	-	18.5	0.8	-11.7	4.5	3	silty CLAY to CLAY	115	1.5	12	7	-	-	1.2	2.9	69	3.15	15	-	-
35.27	20.6	-	20.4	0.5	-11.6	2.8	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.3	3.2	57	2.99	15	-	-
35.43	14.8	-	14.5	0.4	-11.6	3.5	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.2	71	3.18	15	-	-
35.60	15.3	-	15.1	0.3	-11.6	2.4	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.3	64	3.08	15	-	-
35.76	15.5	-	15.2	0.4	-11.6	2.7	3	silty CLAY to CLAY	115	1.5	10	5	-	-	1.0	2.3	66	3.10	15	-	-
35.93	13.2	-	13.0	0.4	-11.6	3.4	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	75	3.22	15	-	-
36.09	12.0	-	11.8	0.3	-11.5	3.3	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	78	3.26	15	-	-
36.26	11.2	-	11.0	0.4	-11.5	4.2	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.6	85	3.34	15	-	-
36.42	14.0	-	13.8	0.3	-11.5	2.2	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.0	65	3.10	15	-	-
36.58	11.2	-	11.0	0.2	-11.5	2.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.6	76	3.24	15	-	-
36.75	10.3	-	10.1	0.2	-11.5	2.4	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	78	3.27	15	-	-
36.91	10.1	-	9.8	0.2	-11.5	2.5	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	80	3.28	15	-	-
37.08	9.9	-	9.7	0.2	-11.5	2.7	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	82	3.31	15	-	-
37.24	10.1	-	9.8	0.2	-11.5	2.8	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	82	3.31	15	-	-
37.40	10.0	-	9.7	0.2	-11.5	3.1	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	85	3.34	15	-	-
37.57	10.2	-	10.0	0.3	-11.5	3.4	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.4	85	3.35	15	-	-
37.73	10.3	-	10.1	0.3	-11.5	3.1	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	83	3.32	15	-	-
37.90	10.0	-	9.8	0.3	-11.5	3.4	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	86	3.36	15	-	-
38.06	10.9	-	10.7	0.3	-11.4	3.0	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	81	3.30	15	-	-
38.22	11.1	-	10.9	0.2	-11.4	2.8	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	79	3.27	15	-	-
38.39	10.8	-	10.6	0.2	-11.4	2.5	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	78	3.27	15	-	-
38.55	9.8	-	9.6	0.2	-11.4	2.7	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	83	3.33	15	-	-
38.72	9.8	-	9.6	0.2	-11.4	2.5	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	82	3.31	15	-	-
38.88	10.3	-	10.0	0.2	-11.4	2.4	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	79	3.28	15	-	-
39.04	10.3	-	10.0	0.2	-11.4	2.2	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	78	3.26	15	-	-
39.21	10.5	-	10.3	0.2	-11.4	2.4	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	79	3.27	15	-	-
39.37	11.3	-	11.1	0.3	-11.4	2.8	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.5	79	3.27	15	-	-
39.54	14.6	-	14.3	0.3	-11.3	2.4	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.0	67	3.12	15	-	-
39.70	11.9	-	11.7	0.3	-11.3	3.1	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.6	79	3.28	15	-	-
39.86	11.2	-	11.0	0.3	-11.3	3.1	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.5	81	3.30	15	-	-
40.03	10.3	-	10.1	0.2	-11.3	3.0	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	84	3.34	15	-	-
40.19	10.0	-	9.8	0.2	-11.3	2.7	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	83	3.33	15	-	-
40.36	10.9	-	10.7	0.2	-11.3	2.1	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	76	3.24	15	-	-
40.52	13.2	-	12.9	0.2	-11.3	2.2	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	69	3.15	15	-	-
40.68	16.1	-	15.9	0.3	-11.3	1.9	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.2	61	3.04	15	-	-
40.85	15.2	-	15.0	0.4	-11.3	2.9	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.1	70	3.16	15	-	-
41.01	15.8	-	15.6	0.6	-11.3	4.3	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.2	76	3.23	15	-	-
41.18	31.5	-	31.3	0.5	-11.2	1.6	4	clayy SILT to silty CLAY	115	2.0	16	8	-	-	2.1	4.7	42	2.72	15	-	-
41.34	18.1	-	17.8	0.6	-11.2	3.6	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.5	68	3.14	15	-	-
41.50	19.6	-	19.3	0.7	-11.1	4.1	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.8	68	3.14	15	-	-
41.67	25.5	-	25.2	0.9	-11.1	4.0	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.7	3.7	61	3.03	15	-	-
41.83	27.3	-	27.1	1.0	-11.1	4.1	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	4.0	59	3.01	15	-	-
42.00	25.4	-	25.2	1.0	-11.1	4.5	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.7	3.7	63	3.06	15	-	-
42.16	24.5	-	24.3	0.9	-11.1	3.9	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.6	3.5	61	3.04	15	-	-
42.32	20.9	-	20.7	0.6	-11.0	3.2	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.3	2.9	62	3.06	15	-	-
42.49	19.3	-	19.1	0.5	-11.0	3.0	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.7	63	3.07	15	-	-
42.65	19.5	-	19.3	0.6	-11.0	3.3	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.7	65	3.10	15	-	-
42.82	19.6	-	19.4	0.6	-11.0	3.4	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.7	65	3.10	15	-	-
42.98	18.9	-	18.6	0.6	-11.0	3.4	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.6	67	3.12	15	-	-
43.15	18.8	-	18.6	0.5	-11.0	3.3	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.6	66	3.11	15	-	-
43.31	19.4	-	19.2	0.5	-11.0	3.1	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.7	64	3.09	15	-	-
43.47	21.2	-	21.0	0.6	-11.0	3.1	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.9	62	3.05	15	-	-
43.64	21.3	-	21.1	0.7	-11.0	3.5	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.9	64	3.08	15	-	-
43.80	21.6	-	21.4	0.7	-11.0	3.6	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	3.0	64	3.08	15	-	-
43.97	22.5	-	22.3	0.8	-11.0	4.2	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	3.1	66	3.10	15	-	-
44.13	24.2	-	24.0	1.3	-11.0	6.2	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.6	3.4	71	3.18	15	-	-
44.29	36.9	-	36.7	1.6	-10.9	4.8	3	silty CLAY to CLAY	115	1.5	25	12	-	-	2.5	5.3	56	2.95	15	-	-
44.46	39.8	-	39.6	1.9	-10.9	5.1	3	silty CLAY to CLAY	115	1.5	27	12	-	-	2.7	5.7	55	2.95	15	-	-
44.62	36.0	-	35.8	1.3	-10.9	3.9	3	silty CLAY to CLAY	115	1.5	24	11	-	-	2.4	5.2	53	2.91	15	-	-
44.79	26.7	-	26.5	0.9	-10.8	3.8	3	silty CLAY to CLAY	115	1.5	18	8	-	-	1.7	3.7	60	3.02	15	-	-
44.95	21.8	-	21.5	0.7	-10.8	3.7	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	2.9	65	3.09	15	-	-
45.11	19.9	-	19.7	0.6	-10.8	3.5	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.3	2.7	66	3.11	15	-	-
45.28	17.3	-	17.1	0.5	-10.8	3.5	3	silty CLAY to CLAY	115	1.5	12	5	-	-	1.1	2.2	71	3.17	15	-	-
45.44	18.1	-	17.9	0.6	-10.8	3.8	3	silty CLAY to CLAY	115	1.5	12	6	-	-	1.1	2.4	71	3.18	15	-	-
45.61	24.6	-	24.4	1.1	-10.8	5.0	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.6	3.3	67	3.13	15	-	-
45.77	37.9	-	37.7	1.6	-10.8	4.5	3	silty CLAY to CLAY	115	1.5	25	12	-	-	2.5	5.4	54	2.94	15	-	-
45.93	43.0	-	42.7	1.0	-10.8	2.5	4	clayy SILT to silty CLAY	115	2.0	21	10	-	-	2.9	6.1	42	2.74	15	-	-
46.10	22.7	-	22.5	0.9	-10.4	4.3	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	3.0	67	3.12	15	-	-
46.26	21.9	-	21.7	0.8	-10.4	3.9	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.4	2.9	66	3.11	15	-	-

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

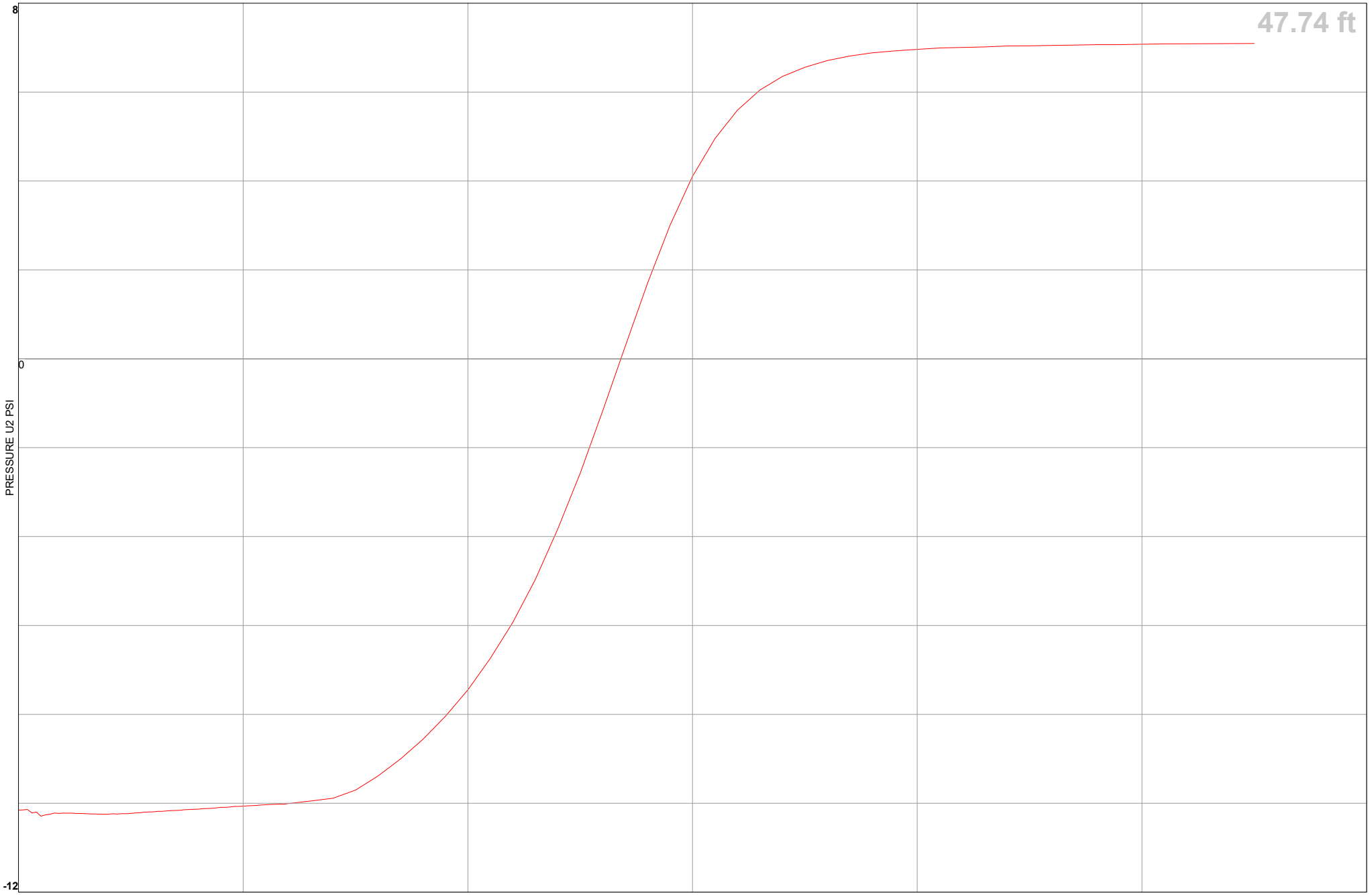
Project ID: Gorian & Associates
Data File: SDF(712).cpt
CPT Date: 4/12/2017 10:29:41 AM
GW During Test: 31 ft

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR - -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
46.43	21.7	-	21.5	0.8	-10.4	4.3	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.9	68	3.14	15	-	-
46.59	21.5	-	21.3	0.8	-10.4	4.3	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	2.8	69	3.14	15	-	-
46.75	20.9	-	20.7	0.7	-10.4	3.8	3	silty CLAY to CLAY	115	1.5	14	6	-	-	1.3	2.7	67	3.12	15	-	-
46.92	19.4	-	19.2	0.6	-10.4	3.6	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	68	3.14	15	-	-
47.08	19.2	-	19.0	0.6	-10.3	3.7	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	69	3.15	15	-	-
47.25	19.4	-	19.2	0.5	-10.3	3.0	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.5	66	3.10	15	-	-
47.41	42.6	-	42.4	0.6	-10.4	1.5	4	clayy SILT to silty CLAY	115	2.0	21	10	-	-	2.9	5.9	37	2.63	15	-	-
47.57	37.4	-	37.2	2.0	-10.1	5.9	3	silty CLAY to CLAY	115	1.5	25	11	-	-	2.5	5.2	60	3.02	15	-	-
47.74	104.8	138.9	104.6	2.7	-10.2	2.6	5	silty SAND to sandy SILT	120	3.0	35	23	54	36	-	-	23	2.33	16	0.52	2.8
47.90	45.1	-	44.9	2.1	-6.7	4.9	3	silty CLAY to CLAY	115	1.5	30	13	-	-	3.0	6.3	52	2.91	15	-	-
48.07	29.0	-	28.8	1.3	-6.9	4.8	3	silty CLAY to CLAY	115	1.5	19	9	-	-	1.9	3.9	63	3.06	15	-	-
48.23	25.6	-	25.4	0.8	-6.5	3.3	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.6	3.4	60	3.02	15	-	-
48.39	25.0	-	24.9	0.7	-6.3	3.3	3	silty CLAY to CLAY	115	1.5	17	7	-	-	1.6	3.3	60	3.02	15	-	-
48.56	28.2	-	28.1	0.9	-6.1	3.7	3	silty CLAY to CLAY	115	1.5	19	8	-	-	1.8	3.7	59	3.00	15	-	-
48.72	31.3	-	31.2	1.7	-5.9	5.9	3	silty CLAY to CLAY	115	1.5	21	9	-	-	2.1	4.2	65	3.09	15	-	-
48.89	44.4	-	44.3	2.0	-5.7	4.9	3	silty CLAY to CLAY	115	1.5	30	13	-	-	3.0	6.1	53	2.92	15	-	-
49.05	52.4	-	52.3	2.9	-5.7	5.8	3	silty CLAY to CLAY	115	1.5	35	15	-	-	3.5	7.2	53	2.91	15	-	-
49.22	64.7	-	64.6	3.3	-5.4	5.3	3	silty CLAY to CLAY	115	1.5	43	19	-	-	4.4	9.0	47	2.81	15	-	-
49.38	78.0	-	77.9	2.9	-5.9	3.8	4	clayy SILT to silty CLAY	115	2.0	39	17	-	-	5.4	9.9	38	2.65	15	-	-
49.54	51.5	-	51.4	2.0	-6.1	4.2	3	silty CLAY to CLAY	115	1.5	34	15	-	-	3.5	7.1	47	2.82	15	-	-
49.71	41.8	-	41.7	2.6	-5.5	6.7	3	silty CLAY to CLAY	115	1.5	28	12	-	-	2.8	5.6	61	3.03	15	-	-
49.87	73.6	-	73.5	3.4	-5.3	4.8	3	silty CLAY to CLAY	115	1.5	49	22	-	-	5.0	9.9	43	2.74	15	-	-
50.04	153.6	147.6	153.5	3.0	-5.3	2.0	5	silty SAND to sandy SILT	120	3.0	51	33	67	38	-	-	16	2.12	16	0.35	2.0
50.20	293.8	202.1	293.7	3.3	-5.8	1.1	6	clean SAND to silty SAND	125	5.0	59	38	88	42	-	-	7	1.75	16	0.00	0.0

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Gorian & Associates

Location	Reseda High School	Operator	RC-JM	GPS
Job Number	2880-62-0-100	Cone Number	DDG1350	
Hole Number	CPT-08	Date and Time	4/12/2017 10:29:41 AM	
Equilized Pressure	7.1	EST GW Depth During Test	31.3	

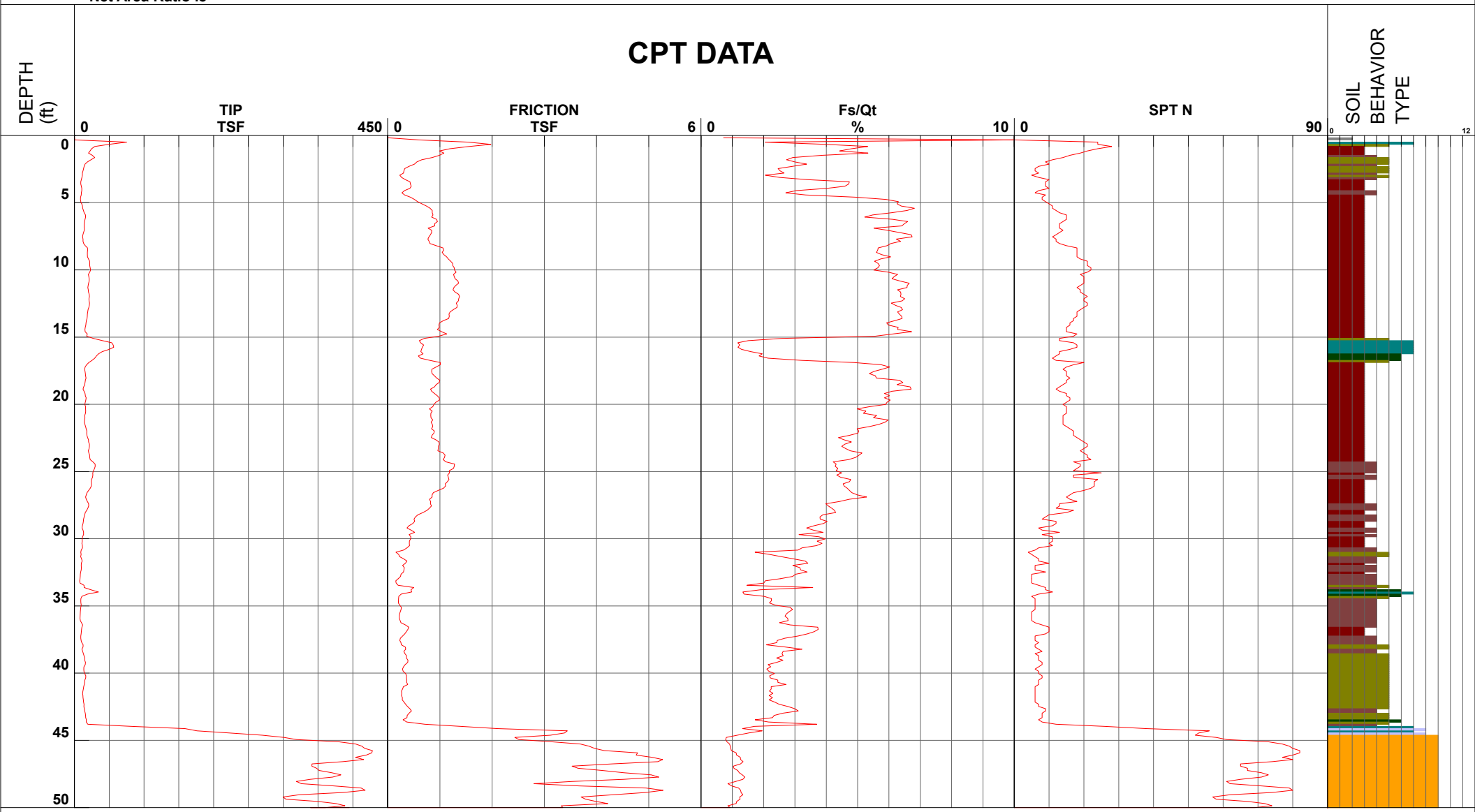


Gorian & Associates

Project	Reseda High School	Operator	RC-JM	Filename	SDF(710).cpt
Job Number	2880-62-0-100	Cone Number	DDG1350	GPS	
Hole Number	CPT-10	Date and Time	4/12/2017 7:55:05 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		31.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(710).cpt
CPT Date: 4/12/2017 7:55:05 AM
GW During Test: 31 ft

Sounding ID: CPT-10
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt * PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT * R-N1 60%	Rel Den %	Ftn * Ang deg	Und Shr tsf	OCR - -	Fin Ic %	Ic * SBT Indx	Nk * -	Vol * Strn %	Cycl * SStn %
0.33	1.1	-	1.1	0.6	-0.1	9.9	2	Organic SOILS - Peats	100	1.0	1	0	-	-	0.1	9.9	95	4.74	10	N/A	N/A
0.49	74.9	168.4	74.9	1.5	0.1	2.1	5	silty SAND to sandy SILT	120	3.0	25	40	73	48	-	-	15	2.07	16	N/A	N/A
0.66	49.7	185.3	49.7	2.0	0.1	4.0	4	clayy SILT to silty CLAY	115	2.0	25	40	-	-	3.5	9.9	27	2.40	15	N/A	N/A
0.82	29.3	-	29.3	1.6	-0.1	5.3	3	silty CLAY to CLAY	115	1.5	20	31	-	-	2.1	9.9	38	2.65	15	N/A	N/A
0.98	24.8	-	24.8	1.2	0.1	4.8	4	clayy SILT to silty CLAY	115	2.0	12	20	-	-	1.7	9.9	39	2.67	15	N/A	N/A
1.15	22.4	-	22.4	1.0	0.1	4.4	4	clayy SILT to silty CLAY	115	2.0	11	18	-	-	1.6	9.9	39	2.67	15	N/A	N/A
1.31	20.2	-	20.2	1.1	0.0	5.3	3	silty CLAY to CLAY	115	1.5	13	22	-	-	1.4	9.9	44	2.76	15	N/A	N/A
1.48	25.7	135.0	25.7	1.0	0.3	3.9	4	clayy SILT to silty CLAY	115	2.0	13	21	-	-	1.8	9.9	35	2.59	15	N/A	N/A
1.64	29.1	122.3	29.1	0.9	-0.2	2.9	4	clayy SILT to silty CLAY	115	2.0	15	23	-	-	2.1	9.9	29	2.47	15	N/A	N/A
1.80	23.8	108.6	23.8	0.7	-0.3	2.7	4	clayy SILT to silty CLAY	115	2.0	12	19	-	-	1.7	9.9	31	2.51	15	N/A	N/A
1.97	18.7	-	18.7	0.6	-0.5	3.0	4	clayy SILT to silty CLAY	115	2.0	9	15	-	-	1.3	9.9	36	2.62	15	N/A	N/A
2.13	15.3	-	15.3	0.5	-0.6	3.4	4	clayy SILT to silty CLAY	115	2.0	8	12	-	-	1.1	9.9	42	2.72	15	N/A	N/A
2.30	14.0	-	14.0	0.4	-0.5	2.9	4	clayy SILT to silty CLAY	115	2.0	7	11	-	-	1.0	9.9	41	2.71	15	N/A	N/A
2.46	13.3	-	13.3	0.3	-0.4	2.5	4	clayy SILT to silty CLAY	115	2.0	7	11	-	-	0.9	9.9	40	2.69	15	N/A	N/A
2.62	12.4	-	12.4	0.3	-0.1	2.6	4	clayy SILT to silty CLAY	115	2.0	6	10	-	-	0.9	9.9	41	2.72	15	N/A	N/A
2.79	11.4	-	11.4	0.3	-0.2	2.7	4	clayy SILT to silty CLAY	115	2.0	6	9	-	-	0.8	9.9	44	2.76	15	N/A	N/A
2.95	11.3	-	11.3	0.2	-0.3	2.1	4	clayy SILT to silty CLAY	115	2.0	6	9	-	-	0.8	9.9	40	2.70	15	N/A	N/A
3.12	10.7	-	10.7	0.3	-0.4	2.6	4	clayy SILT to silty CLAY	115	2.0	5	9	-	-	0.7	9.9	44	2.77	15	N/A	N/A
3.28	10.0	-	10.0	0.3	-0.3	3.5	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	50	2.87	15	N/A	N/A
3.45	9.0	-	9.0	0.4	-0.7	4.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	59	3.00	15	N/A	N/A
3.61	9.2	-	9.2	0.4	-1.3	4.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	58	2.99	15	N/A	N/A
3.77	9.8	-	9.8	0.5	-0.5	4.7	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	56	2.96	15	N/A	N/A
3.94	10.6	-	10.6	0.4	-0.8	4.1	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	52	2.90	15	N/A	N/A
4.10	10.6	-	10.6	0.3	-0.7	3.1	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	48	2.83	15	N/A	N/A
4.27	10.1	-	10.1	0.3	-0.1	2.8	4	clayy SILT to silty CLAY	115	2.0	5	8	-	-	0.7	9.9	47	2.82	15	N/A	N/A
4.43	9.7	-	9.7	0.3	0.0	3.4	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.7	9.9	51	2.88	15	N/A	N/A
4.59	8.9	-	8.8	0.4	-0.5	5.1	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.9	60	3.02	15	N/A	N/A
4.76	8.7	-	8.7	0.5	-0.7	6.1	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.9	64	3.08	15	N/A	N/A
4.92	9.1	-	9.1	0.6	-0.6	6.5	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	64	3.09	15	N/A	N/A
5.09	10.5	-	10.5	0.7	-0.7	6.4	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	61	3.03	15	N/A	N/A
5.25	11.6	-	11.6	0.7	-1.2	6.6	3	silty CLAY to CLAY	115	1.5	8	12	-	-	0.8	9.9	59	3.01	15	N/A	N/A
5.41	11.9	-	11.9	0.8	-0.7	7.0	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	9.9	60	3.02	15	N/A	N/A
5.58	13.0	-	12.9	0.9	-0.6	6.7	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	9.9	57	2.98	15	N/A	N/A
5.74	14.0	-	14.0	0.9	-0.7	6.2	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	54	2.93	15	N/A	N/A
5.91	15.9	-	15.8	0.9	-0.7	5.6	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.9	49	2.86	15	N/A	N/A
6.07	16.1	-	16.1	0.8	-1.2	5.3	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.9	48	2.84	15	N/A	N/A
6.23	15.3	-	15.3	0.9	-0.3	6.3	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.1	9.9	52	2.90	15	N/A	N/A
6.40	14.5	-	14.5	1.0	-0.6	6.8	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.9	55	2.95	15	N/A	N/A
6.56	13.9	-	13.9	0.9	-0.3	6.7	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	56	2.96	15	N/A	N/A
6.73	14.0	-	14.0	0.9	-0.6	6.6	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	55	2.95	15	N/A	N/A
6.89	14.0	-	14.0	0.8	-0.9	5.7	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	52	2.91	15	N/A	N/A
7.05	14.2	-	14.1	0.8	-0.9	6.1	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	54	2.92	15	N/A	N/A
7.22	13.3	-	13.3	0.8	-1.1	6.5	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	9.9	56	2.96	15	N/A	N/A
7.38	12.2	-	12.2	0.8	-1.4	6.9	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	9.2	59	3.01	15	N/A	N/A
7.55	11.7	-	11.7	0.8	-1.5	7.0	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	8.6	60	3.03	15	N/A	N/A
7.71	12.4	-	12.3	0.8	-1.3	6.5	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	8.9	58	2.99	15	N/A	N/A
7.87	12.5	-	12.4	0.8	-1.1	6.6	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	8.8	58	2.99	15	N/A	N/A
8.04	13.4	-	13.4	0.8	-0.8	6.3	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	9.3	55	2.95	15	N/A	N/A
8.20	15.7	-	15.7	0.9	-0.6	6.1	3	silty CLAY to CLAY	115	1.5	10	17	-	-	1.1	9.9	52	2.89	15	N/A	N/A
8.37	18.7	-	18.7	1.1	-0.8	5.8	3	silty CLAY to CLAY	115	1.5	12	20	-	-	1.3	9.9	47	2.82	15	N/A	N/A
8.53	19.0	-	19.0	1.1	-0.8	5.8	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.3	9.9	47	2.81	15	N/A	N/A
8.69	18.6	-	18.6	1.0	-0.5	5.8	3	silty CLAY to CLAY	115	1.5	12	20	-	-	1.3	9.9	47	2.82	15	N/A	N/A
8.86	18.6	-	18.6	1.1	-0.6	5.9	3	silty CLAY to CLAY	115	1.5	12	20	-	-	1.3	9.9	48	2.83	15	N/A	N/A
9.02	18.7	-	18.7	1.1	-0.8	6.2	3	silty CLAY to CLAY	115	1.5	12	20	-	-	1.3	9.9	48	2.84	15	N/A	N/A
9.19	20.2	-	20.2	1.2	-0.6	5.9	3	silty CLAY to CLAY	115	1.5	13	22	-	-	1.4	9.9	46	2.80	15	N/A	N/A
9.35	21.8	-	21.8	1.2	-0.2	5.7	3	silty CLAY to CLAY	115	1.5	15	23	-	-	1.5	9.9	44	2.77	15	N/A	N/A
9.51	22.0	-	22.0	1.2	-0.1	5.8	3	silty CLAY to CLAY	115	1.5	15	24	-	-	1.5	9.9	44	2.77	15	N/A	N/A
9.68	21.9	-	21.9	1.2	0.2	5.8	3	silty CLAY to CLAY	115	1.5	15	23	-	-	1.5	9.9	45	2.77	15	N/A	N/A
9.84	22.6	-	22.6	1.3	0.4	5.8	3	silty CLAY to CLAY	115	1.5	15	24	-	-	1.6	9.9	44	2.76	15	N/A	N/A
10.01	23.2	-	23.3	1.3	0.3	5.7	3	silty CLAY to CLAY	115	1.5	15	25	-	-	1.6	9.9	43	2.75	15	N/A	N/A
10.17	21.9	-	21.9	1.3	0.4	6.1	3	silty CLAY to CLAY	115	1.5	15	23	-	-	1.5	9.9	45	2.79	15	N/A	N/A
10.34	20.1	-	20.1	1.3	0.4	6.5	3	silty CLAY to CLAY	115	1.5	13	22	-	-	1.4	9.9	48	2.83	15	N/A	N/A
10.50	20.7	-	20.7	1.3	0.7	6.3	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.4	9.9	47	2.82	15	N/A	N/A
10.66	21.2	-	21.2	1.3	0.7	6.3	3	silty CLAY to CLAY	115	1.5	14	23	-	-	1.5	9.9	46	2.81	15	N/A	N/A
10.83	21.2	-	21.2	1.3	0.8	6.5	3	silty CLAY to CLAY	115	1.5	14	23	-	-	1.5	9.9	47	2.82	15	N/A	N/A
10.99	20.4	-	20.5	1.4	0.6	6.9	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.4	9.9	49	2.85	15	N/A	N/A
11.16	19.8	-	19.8	1.3	0.8	6.8	3	silty CLAY to CLAY	115	1.5	13	21	-	-	1.4	9.9	50	2.86	15	N/A	N/A
11.32	19.3	-	19.3	1.3	0.9	6.8	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.3	9.5	50	2.87	15	N/A	N/A
11.48	20.0	-	20.0	1.3	1.1	6.5	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.4	9.7	49	2.85	15	N/A	N/A
11.65	20.2	-	20.2	1.3	1.0	6.6	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.4	9.7	49	2.86	15	N/A	N/A
11.81	21.3	-	21.3	1.4	0.7	6.6	3	silty CLAY to CLAY	115	1.5	14	21	-	-	1.5	9.9	49	2.85	15	N/A	N/A
11.98	21.6	-	21.6	1.4	0.7	6.6	3	silty CLAY to CLAY	115	1.5	14	21	-	-	1.5	9.9	49	2.85	15	N/A	N/A
12.14	20.9	-	20.9	1.4	0.8	6.7	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.4	9.6	50	2.87	15	N/A	N/A
12.30	21.1	-	21.1	1.4	0.9	6.6	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.4	9.5	50	2.87	15	N/A	N/A
12.47	21.7	-	21.7	1.3	1.0	6.3	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.5	9.7	49	2.84	15	N/A	N/A
12.63	21.4	-	21.5	1.3	1.1	6.4	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.5	9.4	49	2.86	15	N/A	N/A
12.80	20.8	-	20.8	1.3	1.1	6.6	3	silty CLAY to CLAY	115	1.5	14	19	-	-	1.4	9.0	51	2.88	15	N/A	N/A
12.96	19.5	-	19.5	1.3	1.1	6.7	3	silty CLAY to CLAY	115	1.5	13	18	-	-	1.3	8.3	53	2.91	15	N/A	N/A
13.12	19.1	-	19.1	1.2	1.3	6.5	3	silty CLAY to CLAY	115	1.5	13	17	-	-	1.3	8.0	53	2.91	15	N/A	N/A
13.29	18.6	-	18.6	1.2	1.2	6.6	3	silty CLAY to CLAY	115	1.5	12	16	-	-	1.3	7.7	54	2.93	15	N/A	N/A
13.45	18.4	-	18.5	1.2	1.3	6.7	3	silty CLAY to CLAY	115	1.5	12	16	-	-	1.2	7.6	54	2.94	15	N/A	N/A
13.62	18.2	-	18.2	1.2	1.0	6.7	3	silty CLAY to CLAY	115	1.5	12	16	-	-	1.2	7.4	55	2.95	15	N/A	N/A
13.78	17.2	-	17.3	1.1	1.1	6.5	3	silty CLAY to CLAY	115	1.5	11	15	-	-	1.2	6.9	56	2.96	15	N/A	N/A
13.94	16.8	-	16.8	1.0	1.4	6.2	3	silty CLAY to CLAY	115	1.5	11	14	-	-	1.1	6.6	56	2.96	15	N/A	N/A
14.11	16.4	-	16.4	1.0	1.4	6.3	3	silty CLAY to CLAY	115	1.5	11	14	-	-	1.1	6.4	57	2.97	15	N/A	N/A
14.27	15.7	-	15.7	1.0	1.1	6.6	3	silty CLAY to CLAY	115	1.5	10	13	-	-	1.1	6.0	59	3.01	15	N/A	N/A
14.44	15.2	-	15.2	1.0	0.7	6.6	3	silty CLAY to CLAY	115	1.5	10	12	-	-	1.0	5.7	60	3.02	15	N/A	N/A
14.60	15.4	-	15.4	1.0	0.9	7.1	3	silty CLAY to CLAY	115	1.5	10	12	-	-	1.0	5.7	62	3.04	15	N/A	N/A
14.76	18.4	-	18.4	1.1	0.1	6.4	3	silty CLAY to CLAY	115	1.5	12	15	-	-	1.2	6.9	56	2.96	15	N/A	N/A
14.93	17.7	-	17.7	1.0	-0.1	5.9	3	silty CLAY to CLAY	115	1.5	12	14	-	-	1.2	6.5	55	2.95	15	N/A	N/A
15.09	27.1	-	27.1	0.7	-0.1	2.7	4	clayy SILT to silty CLAY	115	2.0	14	15	-	-	1.9	9.9	35	2.60	15	N/A	N/A
15.26	40.3	85.9	40.3	0.6	-0.1	1.5	5	silty SAND to sandy SILT	120	3.0	13	14	38	36	-	-	24	2.33	16	N/A	N/A
15.42	53.6	87.9	53.6	0.6	-0.2	1.2	5	silty SAND to sandy SILT	120	3.0	18	18	47	38	-	-	18	2.17	16	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(710).cpt
CPT Date: 4/12/2017 7:55:05 AM
GW During Test: 31 ft

Sounding ID: CPT-10
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
15.58	55.7	90.9	55.7	0.7	-0.2	1.3	5	silty SAND to sandy SILT	120	3.0	19	19	49	38	-	-	18	2.17	16	N/A	N/A
15.75	56.4	89.8	56.4	0.7	-0.2	1.2	5	silty SAND to sandy SILT	120	3.0	19	19	49	38	-	-	17	2.15	16	N/A	N/A
15.91	50.1	87.5	50.1	0.6	-0.2	1.3	5	silty SAND to sandy SILT	120	3.0	17	17	45	37	-	-	20	2.22	16	N/A	N/A
16.08	40.1	86.8	40.1	0.6	-0.1	1.6	5	silty SAND to sandy SILT	120	3.0	13	14	37	36	-	-	25	2.36	16	N/A	N/A
16.24	34.7	90.7	34.7	0.7	-0.1	2.0	5	silty SAND to sandy SILT	120	3.0	12	12	32	35	-	-	29	2.47	16	N/A	N/A
16.40	31.7	85.6	31.7	0.6	-0.2	1.9	5	silty SAND to sandy SILT	120	3.0	11	11	29	34	-	-	30	2.49	16	N/A	N/A
16.57	29.3	89.3	29.3	0.6	-0.2	2.2	4	clayy SILT to silty CLAY	115	2.0	15	15	-	-	2.0	9.8	33	2.56	15	N/A	N/A
16.73	25.1	-	25.1	0.8	-0.2	3.4	4	clayy SILT to silty CLAY	115	2.0	13	13	-	-	1.7	8.3	41	2.71	15	N/A	N/A
16.90	20.7	-	20.7	1.0	-0.1	5.1	3	silty CLAY to CLAY	115	1.5	14	14	-	-	1.4	6.7	52	2.90	15	N/A	N/A
17.06	17.5	-	17.5	1.0	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.6	59	3.01	15	N/A	N/A
17.23	15.4	-	15.4	0.9	-0.2	6.4	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.8	64	3.07	15	N/A	N/A
17.39	14.6	-	14.6	0.8	-0.8	6.2	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.5	64	3.08	15	N/A	N/A
17.55	15.2	-	15.2	0.8	-0.6	5.9	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.6	63	3.06	15	N/A	N/A
17.72	15.8	-	15.8	0.9	-0.7	5.7	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.0	4.8	61	3.04	15	N/A	N/A
17.88	16.1	-	16.1	0.9	-0.6	5.9	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.8	62	3.05	15	N/A	N/A
18.05	16.8	-	16.7	0.9	-0.8	6.0	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.0	61	3.04	15	N/A	N/A
18.21	15.8	-	15.7	1.0	-2.2	6.8	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.0	4.6	65	3.10	15	N/A	N/A
18.37	15.3	-	15.3	1.0	-2.4	6.9	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	67	3.12	15	N/A	N/A
18.54	14.9	-	14.8	0.9	-2.5	6.7	3	silty CLAY to CLAY	115	1.5	10	9	-	-	1.0	4.3	67	3.12	15	N/A	N/A
18.70	13.4	-	13.3	0.9	-2.9	7.3	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.8	72	3.19	15	N/A	N/A
18.87	12.3	-	12.2	0.8	-3.5	7.4	3	silty CLAY to CLAY	115	1.5	8	8	-	-	0.8	3.4	75	3.22	15	N/A	N/A
19.03	13.8	-	13.8	0.8	-3.2	6.6	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.8	69	3.15	15	N/A	N/A
19.19	15.3	-	15.2	0.9	-3.1	6.3	3	silty CLAY to CLAY	115	1.5	10	9	-	-	1.0	4.2	66	3.11	15	N/A	N/A
19.36	15.8	-	15.8	1.0	-2.5	6.5	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.0	4.3	66	3.11	15	N/A	N/A
19.52	16.9	-	16.8	1.0	-2.4	6.3	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.6	64	3.08	15	N/A	N/A
19.69	16.4	-	16.4	1.0	-2.2	6.5	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.5	65	3.10	15	N/A	N/A
19.85	15.5	-	15.5	0.9	-2.1	6.4	3	silty CLAY to CLAY	115	1.5	10	9	-	-	1.0	4.2	67	3.12	15	N/A	N/A
20.01	15.0	-	15.0	0.9	-2.0	6.4	3	silty CLAY to CLAY	115	1.5	10	9	-	-	1.0	4.0	68	3.13	15	N/A	N/A
20.18	16.1	-	16.0	0.9	-1.8	5.8	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.2	64	3.08	15	N/A	N/A
20.34	16.0	-	16.0	0.8	-1.7	5.4	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.2	63	3.07	15	N/A	N/A
20.51	16.2	-	16.2	0.9	-1.6	5.7	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.2	64	3.08	15	N/A	N/A
20.67	15.9	-	15.9	0.8	-1.6	5.6	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.0	4.1	64	3.09	15	N/A	N/A
20.83	14.7	-	14.7	0.8	-1.5	6.1	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	69	3.14	15	N/A	N/A
21.00	15.1	-	15.0	0.8	-1.5	6.0	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.8	68	3.13	15	N/A	N/A
21.16	14.5	-	14.5	0.9	-1.6	6.5	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.6	71	3.17	15	N/A	N/A
21.33	14.1	-	14.1	0.8	-1.5	6.4	3	silty CLAY to CLAY	115	1.5	9	8	-	-	0.9	3.5	71	3.18	15	N/A	N/A
21.49	15.1	-	15.1	0.9	-1.3	6.2	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	69	3.15	15	N/A	N/A
21.65	16.1	-	16.0	0.9	-1.2	5.8	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.0	3.9	66	3.11	15	N/A	N/A
21.82	16.9	-	16.8	0.8	-1.0	5.4	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.1	64	3.07	15	N/A	N/A
21.98	17.7	-	17.7	0.9	-0.6	5.4	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.3	63	3.06	15	N/A	N/A
22.15	17.7	-	17.7	0.9	-0.3	5.4	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.2	63	3.06	15	N/A	N/A
22.31	17.9	-	17.9	0.8	0.0	5.1	3	silty CLAY to CLAY	115	1.5	12	9	-	-	1.2	4.3	62	3.04	15	N/A	N/A
22.47	19.1	-	19.1	0.8	0.1	4.7	3	silty CLAY to CLAY	115	1.5	13	10	-	-	1.3	4.5	59	3.00	15	N/A	N/A
22.64	20.2	-	20.2	0.9	0.1	4.9	3	silty CLAY to CLAY	115	1.5	13	10	-	-	1.3	4.8	58	2.99	15	N/A	N/A
22.80	20.5	-	20.5	1.0	0.1	5.1	3	silty CLAY to CLAY	115	1.5	14	10	-	-	1.4	4.8	59	3.01	15	N/A	N/A
22.97	21.6	-	21.6	1.0	0.4	4.9	3	silty CLAY to CLAY	115	1.5	14	11	-	-	1.4	5.1	57	2.98	15	N/A	N/A
23.13	21.6	-	21.6	1.0	0.4	4.8	3	silty CLAY to CLAY	115	1.5	14	11	-	-	1.4	5.0	57	2.97	15	N/A	N/A
23.30	21.0	-	21.1	1.0	0.6	4.9	3	silty CLAY to CLAY	115	1.5	14	10	-	-	1.4	4.9	58	2.99	15	N/A	N/A
23.46	20.1	-	20.1	1.0	0.7	5.1	3	silty CLAY to CLAY	115	1.5	13	10	-	-	1.3	4.6	60	3.02	15	N/A	N/A
23.62	20.7	-	20.7	1.1	0.8	5.5	3	silty CLAY to CLAY	115	1.5	14	10	-	-	1.4	4.7	61	3.03	15	N/A	N/A
23.79	21.8	-	21.8	1.1	1.0	5.4	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.4	4.9	59	3.01	15	N/A	N/A
23.95	22.0	-	22.0	1.1	1.0	5.3	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.5	4.9	59	3.01	15	N/A	N/A
24.12	22.6	-	22.6	1.1	1.2	5.0	3	silty CLAY to CLAY	115	1.5	15	11	-	-	1.5	5.0	58	2.99	15	N/A	N/A
24.28	26.4	-	26.5	1.1	1.3	4.5	3	silty CLAY to CLAY	115	1.5	18	13	-	-	1.8	5.9	52	2.90	15	N/A	N/A
24.44	29.7	-	29.7	1.3	1.4	4.5	3	silty CLAY to CLAY	115	1.5	20	14	-	-	2.0	6.6	50	2.87	15	N/A	N/A
24.61	29.8	-	29.8	1.3	1.4	4.5	3	silty CLAY to CLAY	115	1.5	20	14	-	-	2.0	6.6	50	2.87	15	N/A	N/A
24.77	28.9	-	28.9	1.3	1.7	4.6	3	silty CLAY to CLAY	115	1.5	19	13	-	-	1.9	6.4	51	2.88	15	N/A	N/A
24.94	27.4	-	27.4	1.2	1.7	4.6	3	silty CLAY to CLAY	115	1.5	18	13	-	-	1.8	6.0	52	2.90	15	N/A	N/A
25.10	26.4	-	26.4	1.2	1.7	4.8	3	silty CLAY to CLAY	115	1.5	18	12	-	-	1.8	5.7	54	2.93	15	N/A	N/A
25.26	26.5	-	26.5	1.1	1.7	4.6	3	silty CLAY to CLAY	115	1.5	18	12	-	-	1.8	5.7	53	2.92	15	N/A	N/A
25.43	26.0	-	26.1	1.2	1.7	4.7	3	silty CLAY to CLAY	115	1.5	17	12	-	-	1.7	5.5	54	2.94	15	N/A	N/A
25.59	24.6	-	24.6	1.2	1.7	5.1	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.2	57	2.98	15	N/A	N/A
25.76	24.1	-	24.2	1.1	1.7	5.1	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.0	58	2.99	15	N/A	N/A
25.92	24.3	-	24.4	1.1	1.7	4.8	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.1	57	2.97	15	N/A	N/A
26.08	24.2	-	24.2	1.1	1.7	4.9	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.0	57	2.98	15	N/A	N/A
26.25	22.9	-	22.9	1.1	1.8	5.0	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.7	59	3.01	15	N/A	N/A
26.41	20.4	-	20.4	1.0	1.8	5.1	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.3	4.1	63	3.06	15	N/A	N/A
26.58	18.2	-	18.2	0.9	1.8	5.3	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.6	66	3.11	15	N/A	N/A
26.74	17.0	-	17.1	0.9	1.8	5.5	3	silty CLAY to CLAY	115	1.5	11	7	-	-	1.1	3.3	69	3.15	15	N/A	N/A
26.90	16.1	-	16.1	0.8	1.7	5.8	3	silty CLAY to CLAY	115	1.5	11	7	-	-	1.0	3.1	72	3.19	15	N/A	N/A
27.07	17.0	-	17.0	0.8	1.9	5.2	3	silty CLAY to CLAY	115	1.5	11	7	-	-	1.1	3.3	69	3.14	15	N/A	N/A
27.23	18.5	-	18.6	0.8	2.0	4.8	3	silty CLAY to CLAY	115	1.5	12	8	-	-	1.2	3.6	65	3.09	15	N/A	N/A
27.40	20.5	-	20.6	0.8	2.0	4.3	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.3	4.0	60	3.03	15	N/A	N/A
27.56	20.6	-	20.7	0.8	2.1	4.4	3	silty CLAY to CLAY	115	1.5	14	9	-	-	1.3	4.0	61	3.03	15	N/A	N/A
27.72	19.2	-	19.3	0.8	2.2	4.5	3	silty CLAY to CLAY	115	1.5	13	8	-	-	1.2	3.6	63	3.07	15	N/A	N/A
27.89	17.7	-	17.7	0.8	2.2	4.7	3	silty CLAY to CLAY	115	1.5	12	7	-	-	1.1	3.3	66	3.11	15	N/A	N/A
28.05	15.7	-	15.8	0.7	2.2	4.8	3	silty CLAY to CLAY	115	1.5	10	6	-	-	1.0	2.9	70	3.16	15	N/A	N/A
28.22	14.9	-	14.9	0.6	2.2	4.4	3	silty CLAY to CLAY	115	1.5	10	6	-	-	0.9	2.7	70	3.16	15	N/A	N/A
28.38	14.0	-	14.0	0.5	2.2	4.3	3	silty CLAY to CLAY	115	1.5	9	6	-	-	0.9	2.5	72	3.19	15	N/A	N/A
28.54	13.3	-	13.3	0.5	2.2	4.3	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.3	74	3.21	15	N/A	N/A
28.71	12.9	-	12.9	0.5	2.2	4.6	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.2	76	3.24	15	N/A	N/A
28.87	12.3	-	12.3	0.5	2.3	4.5	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	2.1	78	3.26	15	N/A	N/A
29.04	11.3	-	11.4	0.4	2.3	4.2	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.7	1.9	79	3.28	15	N/A	N/A
29.20	10.9	-	11.0	0.4	2.3	4.0	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.8	79	3.28	15	N/A	N/A
29.36	12.4	-	12.5	0.4	2.4	4.1	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.8	2.1	76	3.24	15	N/A	N/A
29.53	13.3	-	13.3	0.5	2.4	4.5	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.2	76	3.23	15	N/A	N/A
29.69	13.1	-	13.2	0.4	2.5	3.6	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.2	72	3.19	15	N/A	N/A
29.86	11.8	-	11.8	0.4	2.5	4.4	3	silty CLAY to CLAY	115	1.5	8	5	-	-	0.7	1.9	80	3.28	15	N/A	N/A
30.02	11.1	-	11.1	0.4	2.5	4.7	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.8	83	3.33	15	N/A	N/A
30.19	11.2	-	11.3	0.4	2.5	4.4	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.8	82	3.31	15	N/A	N/A
30.35	10.8	-	10.8	0.4	2.5	4.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.7	84	3.34	15	N/A	N/A
30.51	11.4	-	11.4	0.4	2.5	4.4	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	81	3.30	15	N/A	N/A
30.68	11.4	-	11.5	0.4	2.6	3.8	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.8	79	3.27	15	N/A	N/A
30.84	9.8	-	9.8	0.3	2.6	3.8	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	85	3.34	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(710).cpt
CPT Date: 4/12/2017 7:55:05 AM
GW During Test: 31 ft

Sounding ID: CPT-10
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Ratio %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
31.01	9.1	-	9.1	0.2	2.7	2.1	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.4	77	3.25	15	-	-
31.17	9.6	-	9.6	0.2	2.8	2.7	3	silty CLAY to CLAY	115	1.5	6	4	-	-	0.6	1.4	79	3.28	15	-	-
31.33	8.9	-	9.0	0.2	3.2	3.2	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	85	3.35	15	-	-
31.50	10.3	-	10.4	0.3	3.3	3.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.6	82	3.31	15	-	-
31.66	11.1	-	11.1	0.4	3.4	4.0	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.7	1.7	81	3.30	15	-	-
31.83	9.9	-	10.0	0.3	3.4	4.2	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	87	3.37	15	-	-
31.99	9.8	-	9.9	0.3	3.5	3.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	84	3.34	15	-	-
32.15	10.0	-	10.1	0.3	3.6	3.9	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	85	3.34	15	-	-
32.32	9.8	-	9.9	0.3	3.7	3.9	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	86	3.36	15	-	-
32.48	8.9	-	9.0	0.3	3.7	4.3	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	92	3.42	15	-	-
32.65	8.5	-	8.6	0.3	3.7	3.9	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.2	92	3.43	15	-	-
32.81	8.4	-	8.5	0.2	3.8	3.8	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.2	92	3.42	15	-	-
32.97	8.0	-	8.1	0.2	3.8	3.3	3	silty CLAY to CLAY	115	1.5	5	3	-	-	0.4	1.1	92	3.42	15	-	-
33.14	7.5	-	7.6	0.2	3.9	2.7	3	silty CLAY to CLAY	115	1.5	5	3	-	-	0.4	1.0	91	3.41	15	-	-
33.30	8.1	-	8.2	0.2	3.9	2.6	3	silty CLAY to CLAY	115	1.5	5	3	-	-	0.4	1.1	87	3.37	15	-	-
33.47	13.7	-	13.8	0.2	4.1	1.7	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	2.1	61	3.03	15	-	-
33.63	14.0	-	14.1	0.5	4.3	4.1	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	2.2	75	3.23	15	-	-
33.79	23.5	-	23.6	0.4	4.5	2.1	4	clayy SILT to silty CLAY	115	2.0	12	6	-	-	1.5	3.8	49	2.85	15	-	-
33.96	34.3	-	34.4	0.5	3.8	1.4	4	clayy SILT to silty CLAY	115	2.0	17	9	-	-	2.3	5.8	36	2.62	15	-	-
34.12	18.8	-	18.8	0.3	-0.4	1.5	4	clayy SILT to silty CLAY	115	2.0	9	5	-	-	1.2	3.0	51	2.88	15	-	-
34.29	10.6	-	10.6	0.2	-0.1	2.5	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	76	3.23	15	-	-
34.45	9.3	-	9.3	0.2	0.7	2.9	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	84	3.33	15	-	-
34.61	9.2	-	9.2	0.2	0.8	2.9	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	84	3.34	15	-	-
34.78	9.4	-	9.4	0.2	0.9	2.8	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	83	3.32	15	-	-
34.94	9.7	-	9.7	0.2	1.0	3.0	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.6	1.3	83	3.32	15	-	-
35.11	9.2	-	9.2	0.3	1.1	3.6	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	89	3.39	15	-	-
35.27	8.8	-	8.8	0.3	1.1	3.8	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.2	92	3.43	15	-	-
35.43	8.6	-	8.6	0.2	1.2	3.7	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.1	93	3.43	15	-	-
35.60	8.3	-	8.4	0.2	1.3	3.6	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.1	94	3.45	15	-	-
35.76	8.2	-	8.2	0.2	1.3	3.6	3	silty CLAY to CLAY	115	1.5	5	3	-	-	0.4	1.1	95	3.45	15	-	-
35.93	8.0	-	8.1	0.2	1.4	3.7	3	silty CLAY to CLAY	115	1.5	5	3	-	-	0.4	1.0	95	3.47	15	-	-
36.09	8.6	-	8.6	0.2	1.5	3.7	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.1	93	3.44	15	-	-
36.26	10.1	-	10.2	0.3	1.6	3.2	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	83	3.33	15	-	-
36.42	11.9	-	12.0	0.3	1.6	3.5	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	79	3.27	15	-	-
36.58	10.8	-	10.9	0.4	1.5	4.6	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.5	89	3.39	15	-	-
36.75	10.3	-	10.4	0.4	1.6	4.7	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	91	3.41	15	-	-
36.91	9.9	-	10.0	0.4	1.6	4.6	3	silty CLAY to CLAY	115	1.5	7	3	-	-	0.6	1.3	92	3.43	15	-	-
37.08	9.6	-	9.6	0.3	1.7	4.4	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	93	3.43	15	-	-
37.24	9.2	-	9.2	0.3	1.7	4.0	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.2	93	3.44	15	-	-
37.40	9.1	-	9.1	0.2	1.8	3.5	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.2	91	3.41	15	-	-
37.57	9.6	-	9.6	0.2	1.8	3.1	3	silty CLAY to CLAY	115	1.5	6	3	-	-	0.5	1.3	86	3.36	15	-	-
37.73	10.6	-	10.6	0.3	1.9	3.0	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	82	3.31	15	-	-
37.90	12.6	-	12.6	0.3	2.1	2.5	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.8	1.8	72	3.19	15	-	-
38.06	12.4	-	12.5	0.3	2.1	3.3	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.7	77	3.25	15	-	-
38.22	10.7	-	10.8	0.3	2.4	4.1	3	silty CLAY to CLAY	115	1.5	7	4	-	-	0.6	1.4	87	3.37	15	-	-
38.39	11.9	-	11.9	0.3	2.5	3.2	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.6	79	3.27	15	-	-
38.55	12.8	-	12.9	0.3	2.6	3.1	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	76	3.23	15	-	-
38.72	13.8	-	13.9	0.4	2.7	3.1	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	73	3.20	15	-	-
38.88	14.9	-	14.9	0.4	2.8	2.8	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.1	69	3.15	15	-	-
39.04	14.9	-	14.9	0.4	2.9	3.1	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.1	71	3.17	15	-	-
39.21	16.0	-	16.0	0.4	3.0	2.8	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.3	67	3.12	15	-	-
39.37	15.7	-	15.7	0.3	3.1	2.5	3	silty CLAY to CLAY	115	1.5	10	5	-	-	1.0	2.2	65	3.10	15	-	-
39.54	13.6	-	13.7	0.3	3.1	2.7	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	71	3.18	15	-	-
39.70	13.5	-	13.6	0.3	3.3	2.5	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	71	3.17	15	-	-
39.86	13.7	-	13.7	0.3	3.4	2.6	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.8	1.9	71	3.17	15	-	-
40.03	14.7	-	14.7	0.3	3.5	2.8	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.0	70	3.16	15	-	-
40.19	16.5	-	16.6	0.4	3.6	2.5	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.3	65	3.09	15	-	-
40.36	16.2	-	16.3	0.4	3.7	2.6	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.3	65	3.10	15	-	-
40.52	15.0	-	15.1	0.4	3.8	2.9	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.1	70	3.16	15	-	-
40.68	14.8	-	14.9	0.4	3.9	2.9	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	2.0	70	3.17	15	-	-
40.85	14.2	-	14.2	0.4	4.0	3.3	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	1.9	74	3.21	15	-	-
41.01	13.4	-	13.5	0.3	4.0	2.7	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	73	3.20	15	-	-
41.18	12.8	-	12.9	0.3	4.1	2.7	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.7	75	3.22	15	-	-
41.34	12.2	-	12.3	0.3	4.7	2.7	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.6	77	3.24	15	-	-
41.50	11.7	-	11.8	0.3	4.8	2.9	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.5	79	3.28	15	-	-
41.67	12.2	-	12.3	0.3	4.9	2.7	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.6	76	3.24	15	-	-
41.83	12.4	-	12.5	0.3	5.0	2.8	3	silty CLAY to CLAY	115	1.5	8	4	-	-	0.7	1.6	77	3.25	15	-	-
42.00	12.9	-	13.0	0.3	5.1	2.7	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.7	75	3.22	15	-	-
42.16	13.3	-	13.4	0.3	5.1	2.9	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.7	75	3.22	15	-	-
42.32	13.8	-	13.9	0.3	5.2	3.0	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	74	3.22	15	-	-
42.49	13.7	-	13.8	0.4	5.3	3.4	3	silty CLAY to CLAY	115	1.5	9	4	-	-	0.8	1.8	77	3.25	15	-	-
42.65	14.2	-	14.3	0.4	5.4	3.6	3	silty CLAY to CLAY	115	1.5	9	5	-	-	0.9	1.9	77	3.25	15	-	-
42.82	14.7	-	14.8	0.5	5.5	3.7	3	silty CLAY to CLAY	115	1.5	10	5	-	-	0.9	1.9	76	3.24	15	-	-
42.98	15.7	-	15.8	0.4	5.6	3.1	3	silty CLAY to CLAY	115	1.5	10	5	-	-	1.0	2.1	71	3.17	15	-	-
43.15	16.0	-	16.2	0.4	5.7	2.8	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	68	3.14	15	-	-
43.31	16.2	-	16.3	0.4	5.9	2.7	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.1	67	3.13	15	-	-
43.47	17.1	-	17.2	0.3	6.0	2.0	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.1	2.3	61	3.04	15	-	-
43.64	17.0	-	17.1	0.4	6.2	2.5	3	silty CLAY to CLAY	115	1.5	11	5	-	-	1.0	2.3	65	3.09	15	-	-
43.80	19.3	-	19.4	0.7	6.5	4.2	3	silty CLAY to CLAY	115	1.5	13	6	-	-	1.2	2.6	70	3.17	15	-	-
43.97	82.2	103.1	82.3	1.4	6.7	1.8	5	silty SAND to sandy SILT	120	3.0	27	18	47	35	-	-	22	2.28	16	2.28	38.9
44.13	158.9	135.3	159.0	2.1	3.9	1.3	6	clean SAND to silty SAND	125	5.0	32	21	69	39	-	-	12	1.98	16	0.79	3.6
44.29	176.0	164.3	176.0	3.4	-0.2	2.0	5	silty SAND to sandy SILT	120	3.0	59	39	72	39	-	-	15	2.07	16	0.00	0.0
44.46	222.4	178.6	222.4	3.4	-1.1	1.5	6	clean SAND to silty SAND	125	5.0	44	30	80	41	-	-	11	1.92	16	0.00	0.0
44.62	269.8	194.9	269.7	3.1	-4.4	1.2	6	clean SAND to silty SAND	125	5.0	54	36	86	42	-	-	8	1.77	16	0.00	0.0
44.79	301.2	199.8	301.1	2.4	-4.3	0.8	6	clean SAND to silty SAND	125	5.0	60	40	90	42	-	-	5	1.63	16	0.00	0.0
44.95	319.0	211.3	318.9	2.5	-4.3	0.8	6	clean SAND to silty SAND	125	5.0	64	42	92	43	-	-	5	1.60	16	0.00	0.0
45.11	379.8	251.3	379.7	3.1	-4.3	0.8	6	clean SAND to silty SAND	125	5.0	76	50	95	43	-	-	5	1.57	16	0.00	0.0
45.28	404.0	267.0	403.9	3.7	-5.8	0.9	6	clean SAND to silty SAND	125	5.0	81	53	95	44	-	-	5	1.58	16	0.00	0.0
45.44	412.9	272.6	412.8	3.9	-6.4	0.9	6	clean SAND to silty SAND	125	5.0	83	55	95	44	-	-	5	1.58	16	0.00	0.0
45.61	417.1	275.0	416.9	4.0	-6.3	1.0	6	clean SAND to silty SAND	125	5.0	83	55	95	44	-	-	5	1.58	16	0.00	0.0
45.77	428.2	282.0	428.1	4.1	-6.2	1.0	6	clean SAND to silty SAND	125	5.0	86	56	95	44	-	-	5	1.58	16	0.00	0.0
45.93	427.1	280.9	427.0	4.8	-5.9	1.1	6	clean SAND to silty SAND	125	5.0	85	56	95	44	-	-	5	1.63	16	0.00	0.0
46.10	419.3	275.0	419.2	4.8	-5.7	1.1	6	clean SAND to silty SAND	125	5.0	84	55	95	44	-	-	5	1.64	16	0.00	0.0
46.26	403.7	272.7	403.6	5.1	-5.5	1.3	6	clean SAND to silty SAND	125	5.0	81	53	95	44	-	-	6	1.69	16	0.00	0.0

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(710).cpt
CPT Date: 4/12/2017 7:55:05 AM
GW During Test: 31 ft

Sounding ID: CPT-10
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
46.43	415.5	279.6	415.4	5.3	-5.3	1.3	6	clean SAND to silty SAND	125	5.0	83	54	95	44	-	-	6	1.68	16	0.00	0.0
46.59	385.2	265.8	385.1	5.2	-5.2	1.4	6	clean SAND to silty SAND	125	5.0	77	50	95	43	-	-	7	1.72	16	0.00	0.0
46.75	341.3	237.2	341.2	4.3	-5.0	1.3	6	clean SAND to silty SAND	125	5.0	68	45	93	43	-	-	7	1.74	16	0.00	0.0
46.92	341.1	227.2	341.0	3.5	-4.9	1.0	6	clean SAND to silty SAND	125	5.0	68	45	93	43	-	-	6	1.67	16	0.00	0.0
47.08	347.8	231.2	347.7	3.6	-4.9	1.1	6	clean SAND to silty SAND	125	5.0	70	45	94	43	-	-	6	1.67	16	0.00	0.0
47.25	351.6	238.6	351.6	4.1	-4.8	1.2	6	clean SAND to silty SAND	125	5.0	70	46	94	43	-	-	6	1.71	16	0.00	0.0
47.41	369.8	250.7	369.7	4.5	-4.7	1.2	6	clean SAND to silty SAND	125	5.0	74	48	95	43	-	-	6	1.71	16	0.00	0.0
47.57	382.9	262.0	382.8	5.0	-4.7	1.3	6	clean SAND to silty SAND	125	5.0	77	50	95	43	-	-	7	1.72	16	0.00	0.0
47.74	370.9	258.3	370.8	5.2	-4.7	1.4	6	clean SAND to silty SAND	125	5.0	74	48	95	43	-	-	7	1.75	16	0.00	0.0
47.90	338.9	237.1	338.8	4.5	-4.6	1.3	6	clean SAND to silty SAND	125	5.0	68	44	93	43	-	-	7	1.76	16	0.00	0.0
48.07	319.1	217.0	319.0	3.5	-4.5	1.1	6	clean SAND to silty SAND	125	5.0	64	41	91	42	-	-	6	1.72	16	0.00	0.0
48.23	326.0	211.0	325.9	2.8	-5.0	0.9	6	clean SAND to silty SAND	125	5.0	65	42	92	42	-	-	5	1.63	16	0.00	0.0
48.39	372.8	241.0	372.7	3.7	-5.1	1.0	6	clean SAND to silty SAND	125	5.0	75	48	95	43	-	-	5	1.63	16	0.00	0.0
48.56	411.8	270.9	411.7	4.9	-6.0	1.2	6	clean SAND to silty SAND	125	5.0	82	53	95	44	-	-	6	1.67	16	0.00	0.0
48.72	417.6	276.9	417.4	5.3	-6.7	1.3	6	clean SAND to silty SAND	125	5.0	84	54	95	44	-	-	6	1.69	16	0.00	0.0
48.89	385.9	260.0	385.8	4.9	-6.6	1.3	6	clean SAND to silty SAND	125	5.0	77	50	95	43	-	-	6	1.71	16	0.00	0.0
49.05	322.9	226.6	322.7	4.3	-6.3	1.3	6	clean SAND to silty SAND	125	5.0	65	42	91	42	-	-	8	1.78	16	0.00	0.0
49.22	299.7	209.6	299.6	3.7	-6.2	1.2	6	clean SAND to silty SAND	125	5.0	60	39	89	42	-	-	8	1.77	16	0.00	0.0
49.38	303.9	212.2	303.7	3.8	-6.4	1.3	6	clean SAND to silty SAND	125	5.0	61	39	89	42	-	-	8	1.77	16	0.00	0.0
49.54	349.5	233.2	349.4	4.0	-7.3	1.2	6	clean SAND to silty SAND	125	5.0	70	45	94	43	-	-	6	1.70	16	0.00	0.0
49.71	375.8	246.1	375.7	4.2	-8.3	1.1	6	clean SAND to silty SAND	125	5.0	75	48	95	43	-	-	6	1.68	16	0.00	0.0
49.87	388.9	248.9	388.7	3.3	-9.5	0.9	6	clean SAND to silty SAND	125	5.0	78	50	95	43	-	-	5	1.58	16	0.00	0.0
50.20	359.8	229.8	359.6	3.4	-10.3	0.9	6	clean SAND to silty SAND	125	5.0	72	46	94	43	-	-	5	1.63	16	0.00	0.0

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

APPENDIX B
LABORATORY TESTING

General
Laboratory test results on selected samples are presented below. Test were performed to evaluate the physical and engineering properties of the encountered earth materials, including in-situ moisture and dry density, compaction characteristics, expansion potential, consolidation characteristics, grain size distribution, Atterberg limits, and shear strength parameters. Soil corrosivity testing was performed under subcontract by a corrosion engineer.

Field Density and Moisture Tests
In-situ dry density and moisture content were determined from the relatively undisturbed drive samples obtained during exploratory operations. The test results and a detailed description of the earth materials encountered are shown on the attached Logs of Subsurface Data, Appendix A.

Soil Expansion Test
Expansion Index tests were performed on selected bulk samples of the encountered materials. The results are as follows:

Sample	Expansion Index	Expansion Index Range	Expansion Potential
B-1 @ 1’	22	21 - 50	Low
B-6 @ 1’	54	51 - 90	Medium

Optimum Moisture-Maximum Density Curve
Maximum density/optimum moisture tests (compaction characteristics) were performed on selected bulk samples of the encountered materials. The results are as follows:

Sample	Visual Soil Classification	Maximum Dry Density (pcf)	Optimum Moisture Content (%)
B-6 @ 4’	Dark brown clayey silt	110.8	16.3
B-9 @ 1’	Dark brown clayey silt and fine sand	114.7	15.5

Direct Shear Tests
Strain controlled direct shear testing was performed on three relatively undisturbed samples and two remolded sample sets. The sample sets were saturated prior to shearing under axial loads ranging from 920 to 3,680 psf. The shear strength results are presented as graphic summaries.

Load Consolidation Testing
Load consolidation tests were conducted on six relatively undisturbed drive samples. Test loads were added in increments to a maximum of 8,000 psf. Water was added at the approximate overburden pressure to study the effect of moisture infiltration on potential consolidation behavior. The consolidation results are presented on the attached figures as graphic summaries.

Atterberg Limit Tests

Atterberg Limit tests were performed on a representative sample of the fine-grained material onsite.

Sample	Liquid Limit	Plasticity Index	Soil Classification
B-8 @ 10’	49	26	CL

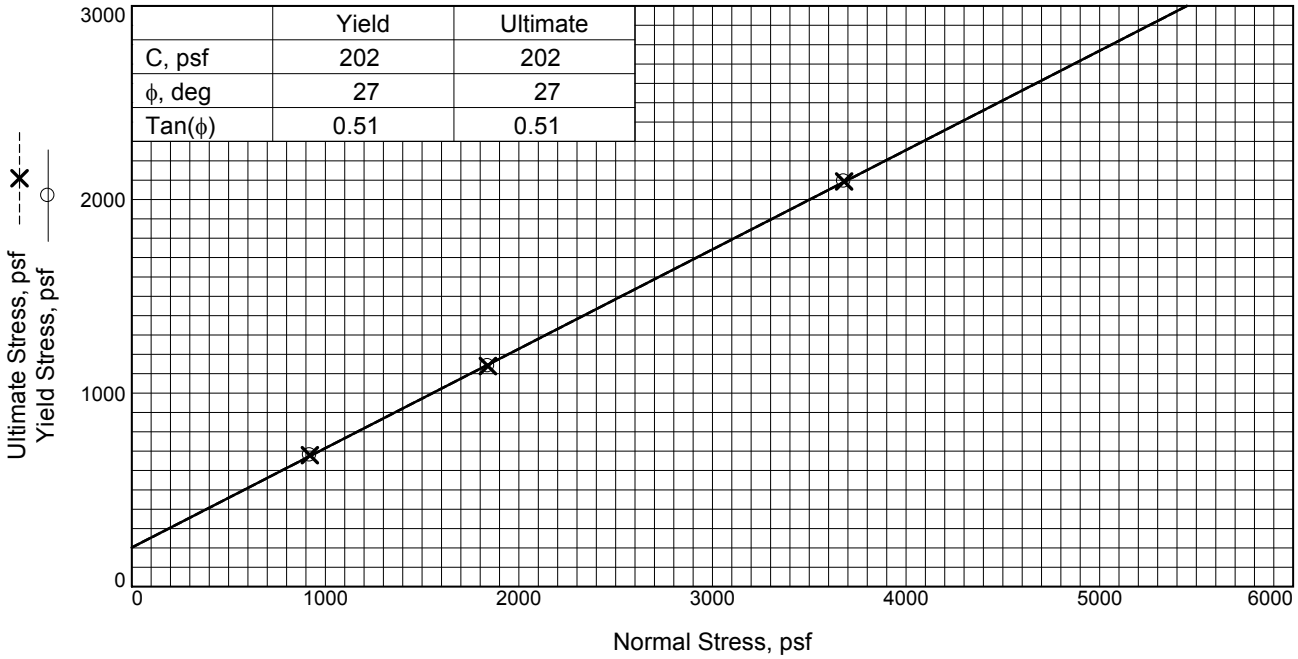
Grain Size Distribution

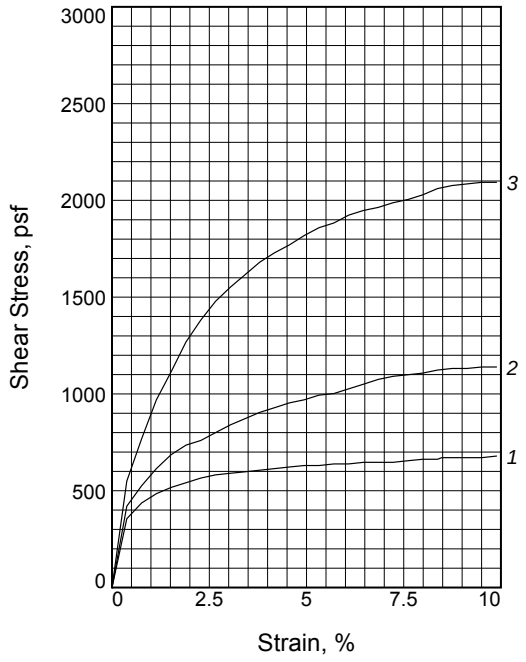
Grain size distribution analyses were performed on three bulk soil samples. The grain size was evaluated by hydrometer analysis. Hydrometer analyses were performed using a 50-gram sample. A table summarizing the results is presented below.

HYDROMETER RESULTS							
Boring	**Depth (feet)**	**% Gravel**	**% Sand**	**% Silt**	**% Clay**	**% Fines (silt and clay)**	**Classification**
B-4	6	2	23	46	29	75	ML
B-4	25	1	53	31	15	46	SM
B-8	33	--	32	42	26	68	ML

Corrosion Testing

Two soil samples were sent under separate contract to be tested for corrosive properties. The test results are attached.





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		679	1140	2093
Strain, %		9.9	9.9	9.9
Ultimate Stress, psf		679	1140	2093
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Undisturbed
Description:

Specific Gravity=
Remarks:

Figure _____

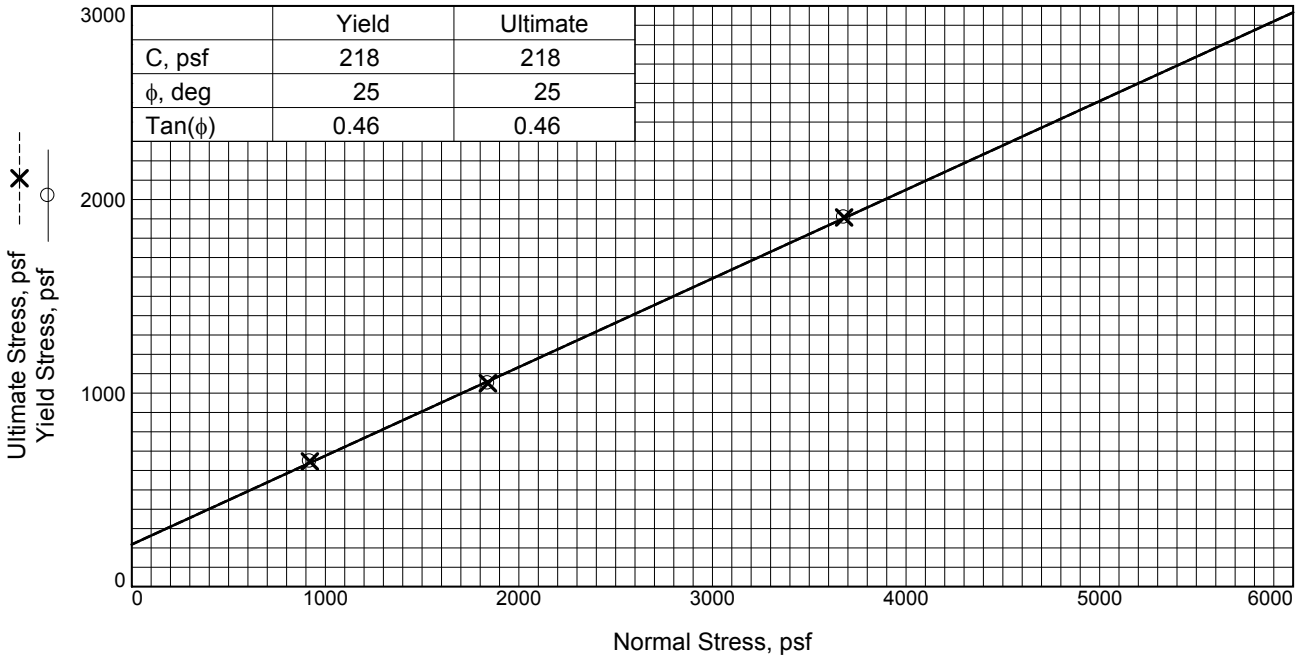
Client: LAUSD

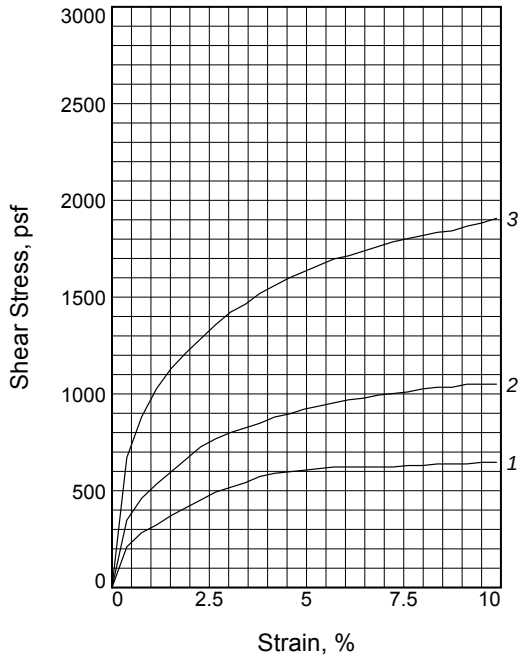
Project: LAUSD - Reseda High School

Sample Number: B-4 @ 5'

Proj. No.: 2880-62-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		647	1051	1907
Strain, %		9.9	9.9	9.9
Ultimate Stress, psf		647	1051	1907
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Undisturbed
Description:

Specific Gravity=
Remarks:

Figure _____

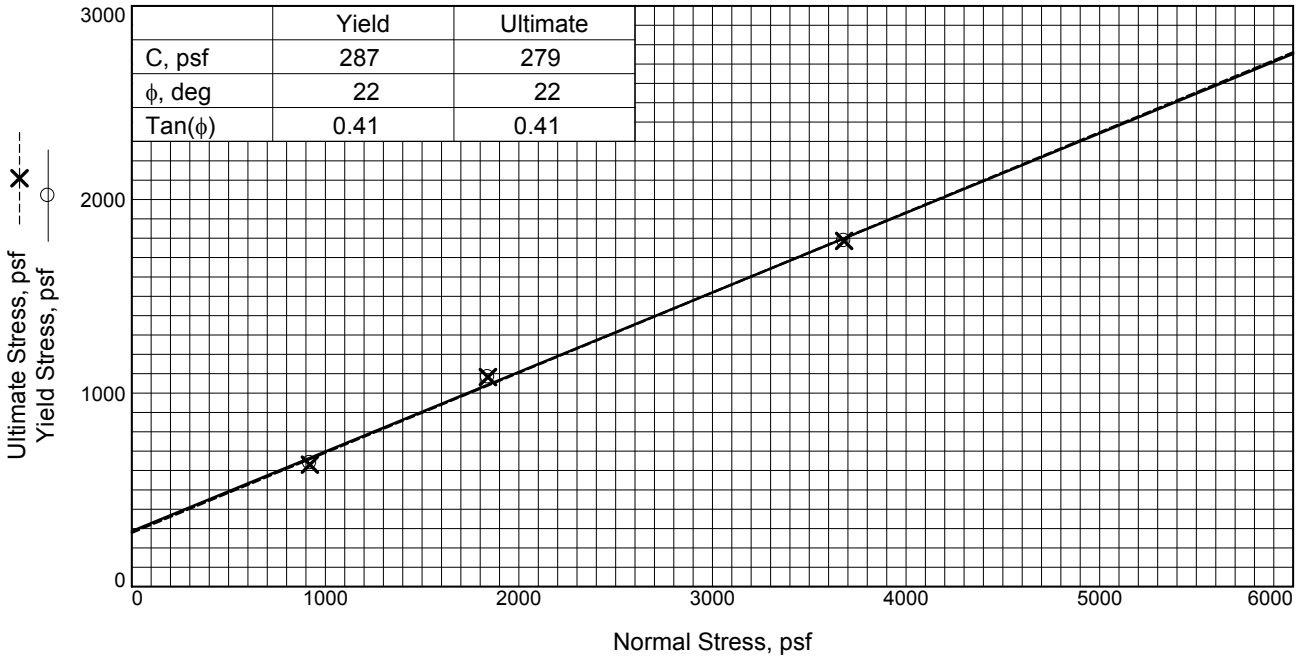
Client: LAUSD

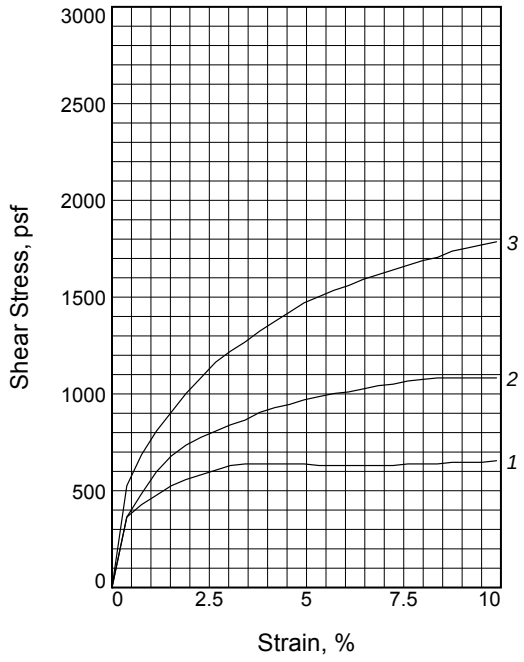
Project: LAUSD - Reseda High School

Sample Number: B-7 @ 10'

Proj. No.: 2880-62-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		638	1083	1786
Strain, %		4.2	9.9	9.9
Ultimate Stress, psf		630	1083	1786
Strain, %		6.1	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Undisturbed
Description:

Specific Gravity=
Remarks:

Figure _____

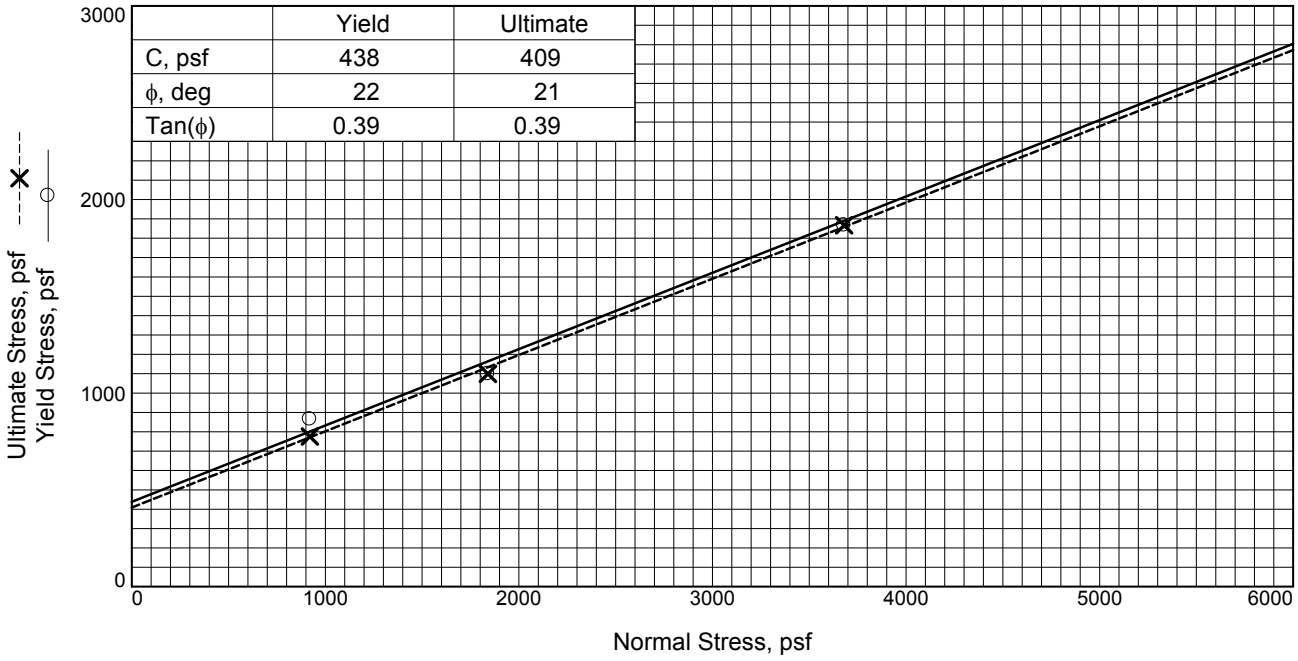
Client: LAUSD

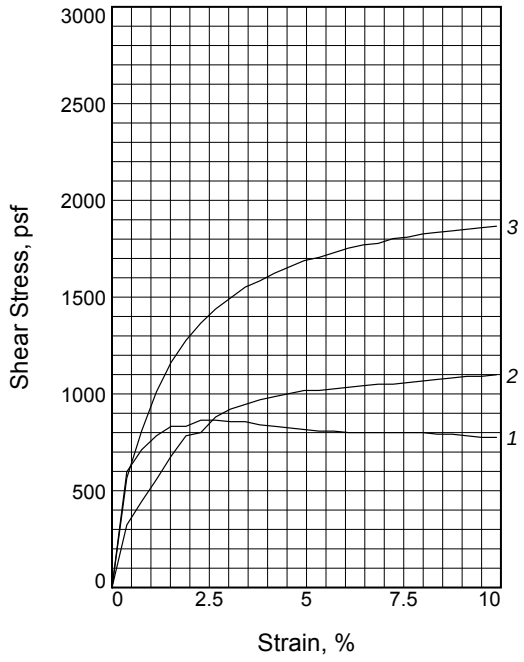
Project: LAUSD - Reseda High School

Sample Number: B-11 @ 5'

Proj. No.: 2880-62-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT
Gorian & Associates
Thousand Oaks, CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		865	1099	1867
Strain, %		2.3	9.9	9.9
Ultimate Stress, psf		776	1099	1867
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Remolded

Description: Dark brown clayey silt and fine sand

4/28/2017

Specific Gravity=

Remarks:

Figure _____

Client: LAUSD

Project: LAUSD - Reseda High School

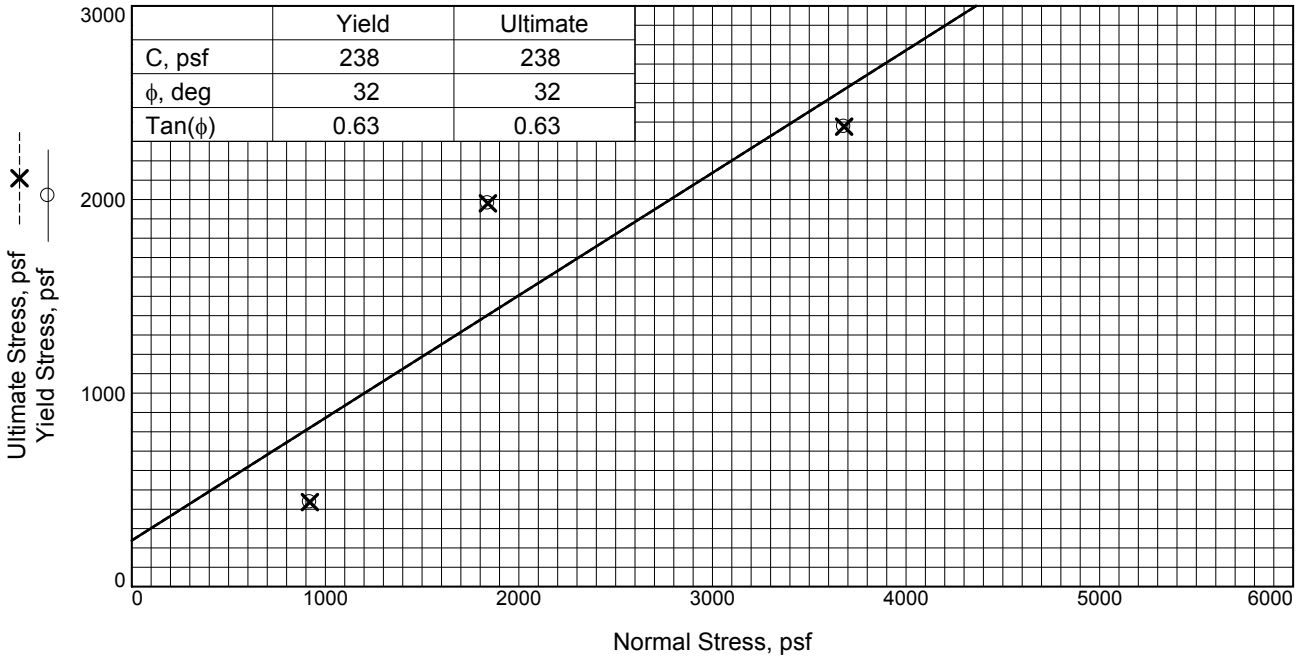
Sample Number: B-6 @ 4'

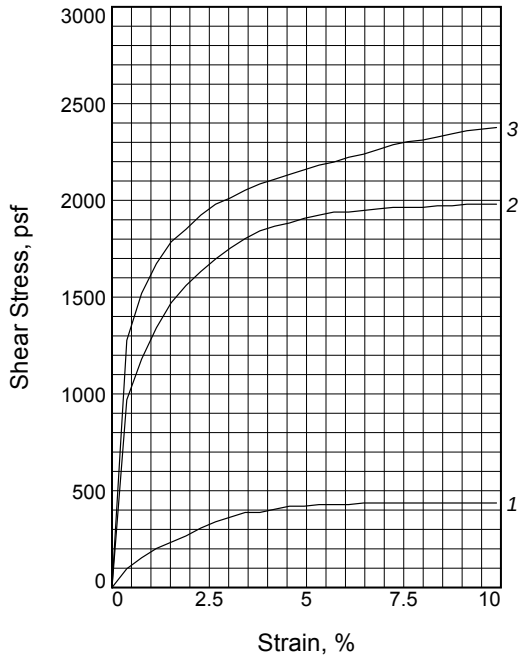
Proj. No.: 2880-62-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT

Gorian & Associates

Thousand Oaks, CA





Sample No.		1	2	3
Initial	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf	N/A	N/A	N/A
	Saturation, %	N/A	N/A	N/A
	Void Ratio	N/A	N/A	N/A
	Diameter, in.	2.63	2.63	2.63
	Height, in.	1.00	1.00	1.00
At Test	Water Content, %	N/A	N/A	N/A
	Dry Density, pcf			
	Saturation, %			
	Void Ratio			
	Diameter, in.			
	Height, in.			
Normal Stress, psf		920	1840	3680
Yield Stress, psf		436	1980	2376
Strain, %		6.5	9.1	9.9
Ultimate Stress, psf		436	1980	2376
Strain, %		9.9	9.9	9.9
Strain rate, in./min.		0.02	0.02	0.02

Sample Type: Remolded

Description: Dark brown clayey silt and fine sand

04/27/17

Specific Gravity=

Remarks:

Figure _____

Client: LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-9 @ 1'

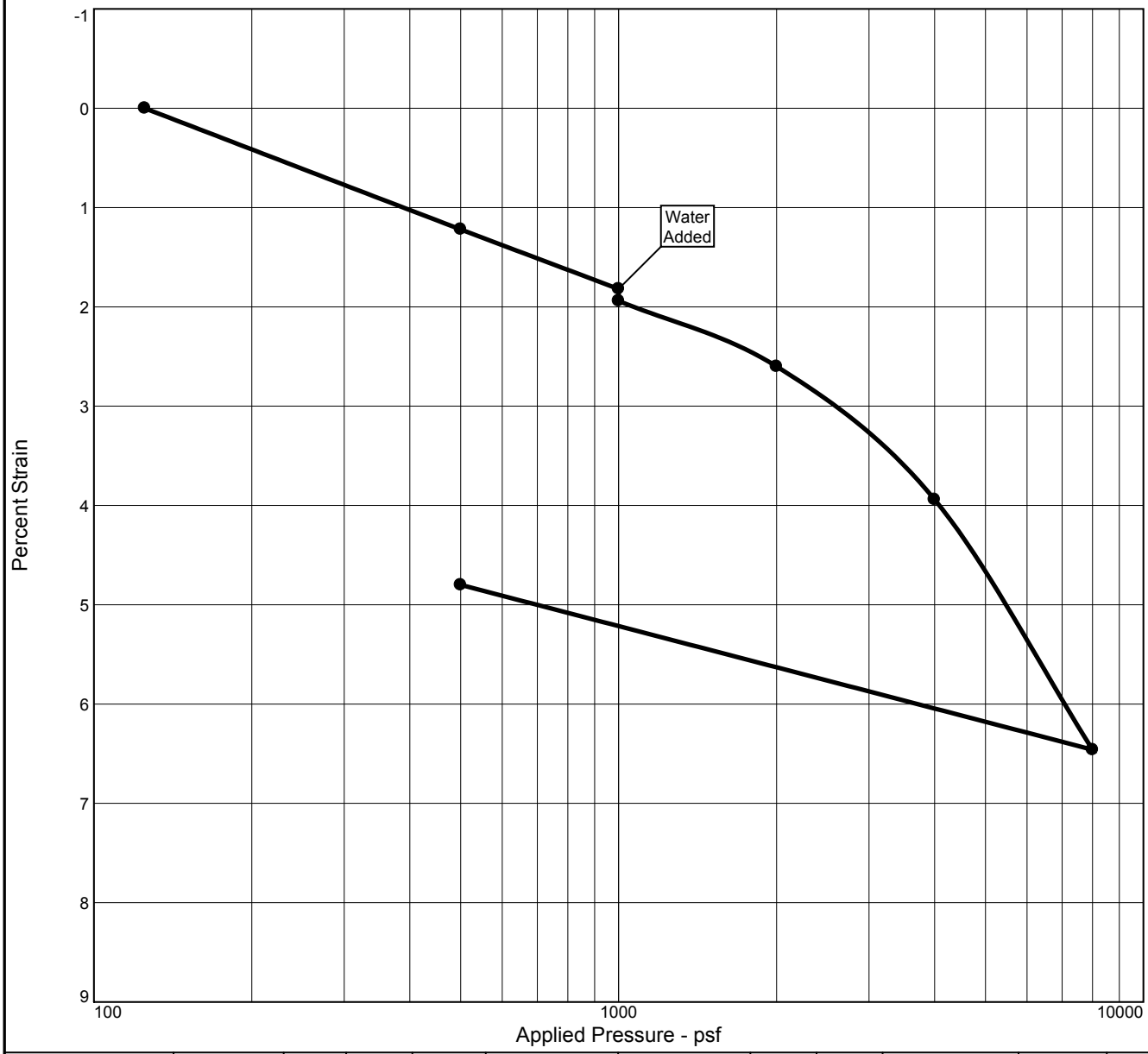
Proj. No.: 2880-62-0-100 **Date Sampled:**

DIRECT SHEAR TEST REPORT

Gorian & Associates

Thousand Oaks, CA

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Clpse. %	e_o
Sat.	Moist.											
							3386				0.1	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-1 @ 25'

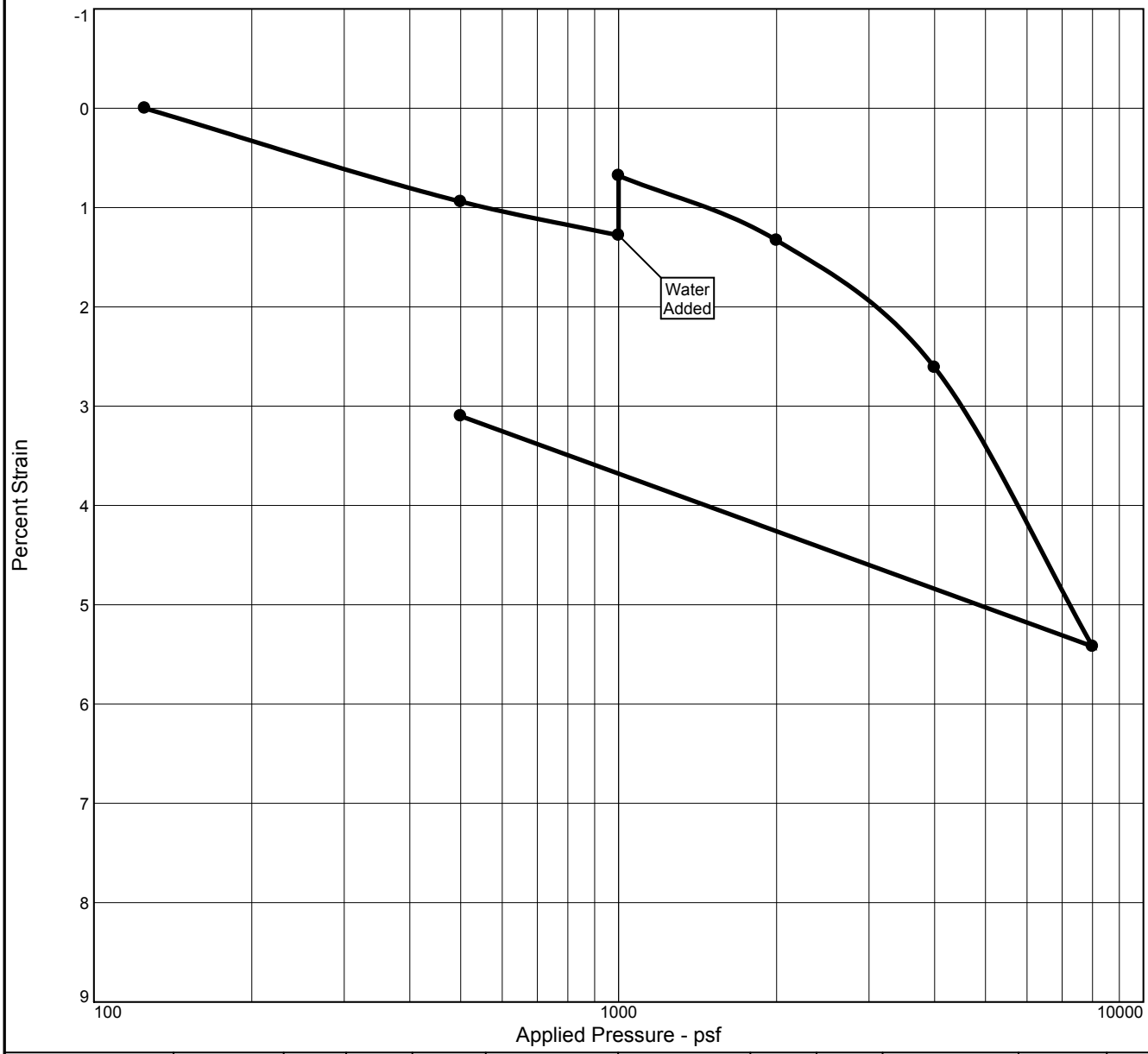
Gorian & Associates

Thousand Oaks, CA

Remarks:

Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
							3626			1927	0.6	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-3 @ 15'

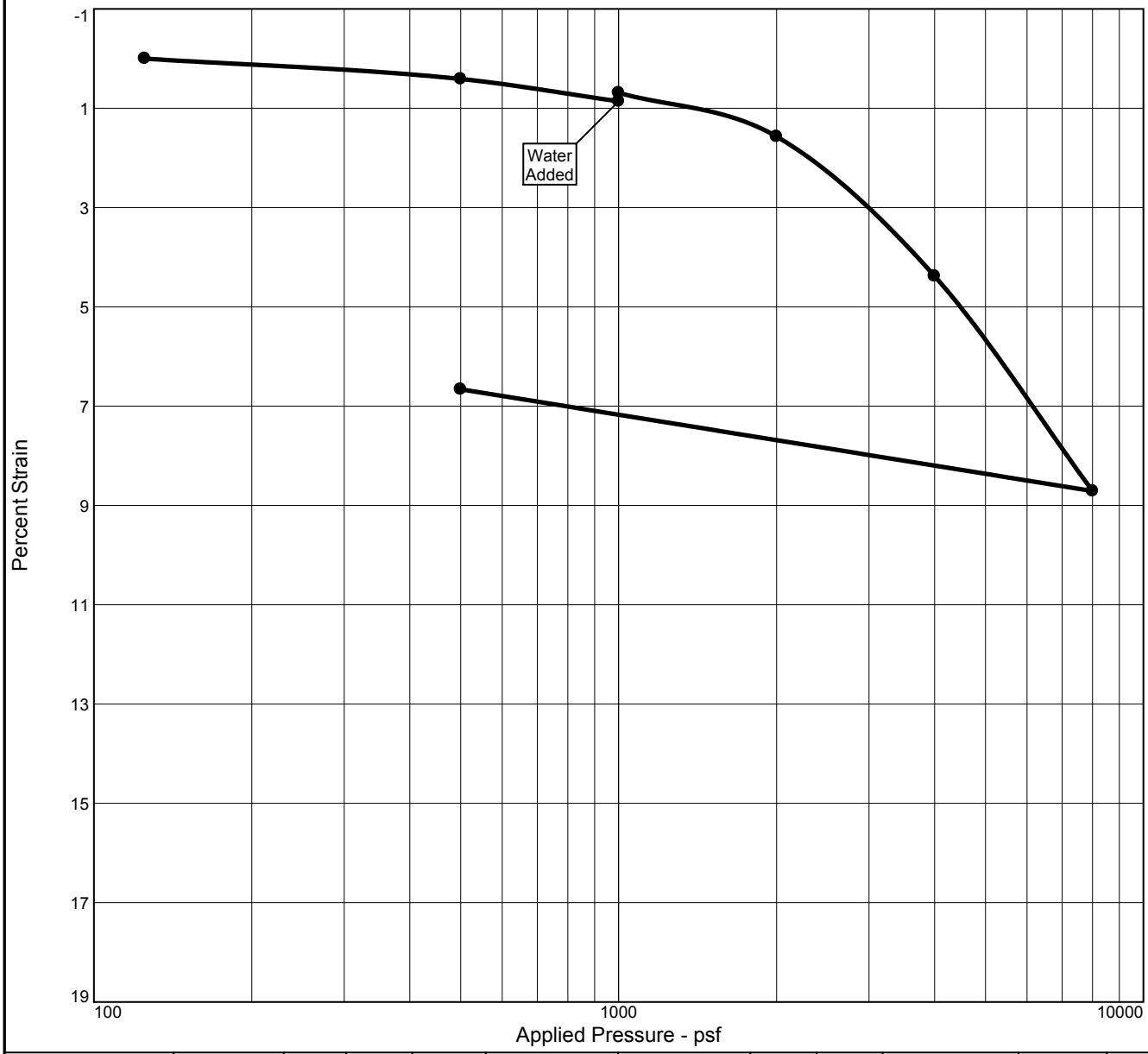
Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
							2725			1182	0.2	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-4 @ 7'

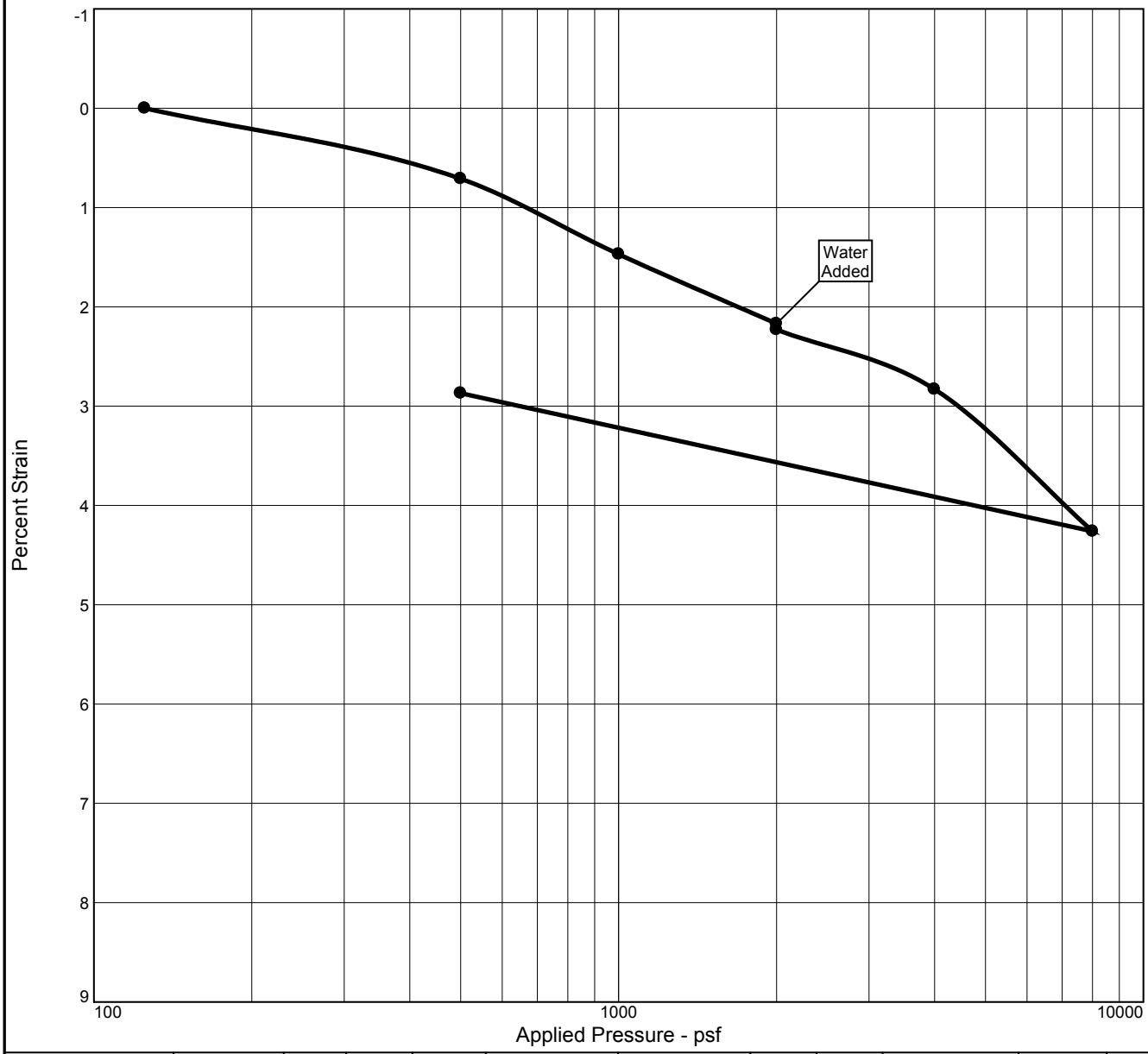
Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Clpse. %	e_o
							3876				0.1	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-8 @ 18'

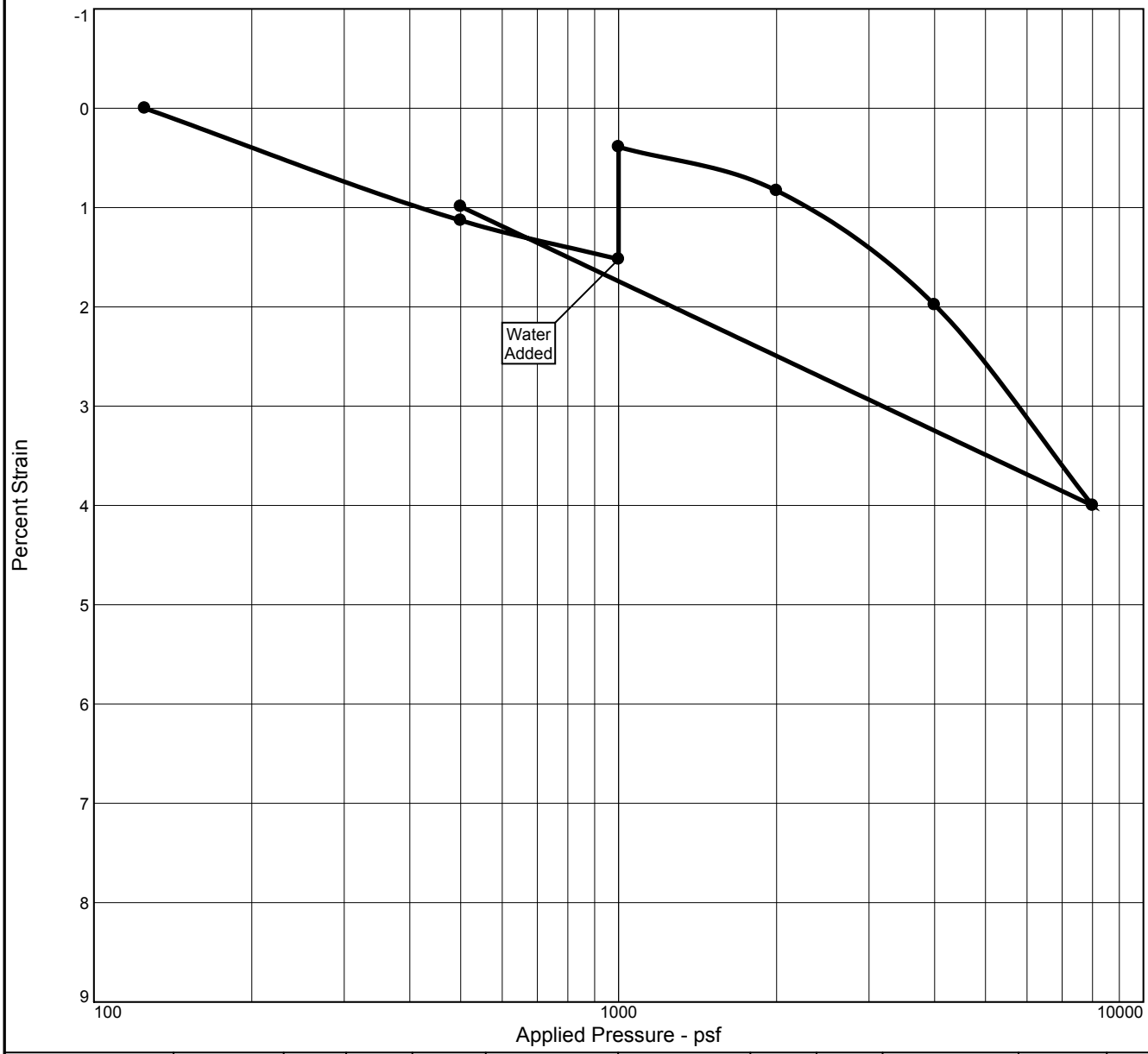
Gorian & Associates

Thousand Oaks, CA

Remarks:

Figure

CONSOLIDATION TEST REPORT



Natural Sat.	Natural Moist.	Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
							2977			3199	1.1	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-9 @ 10'

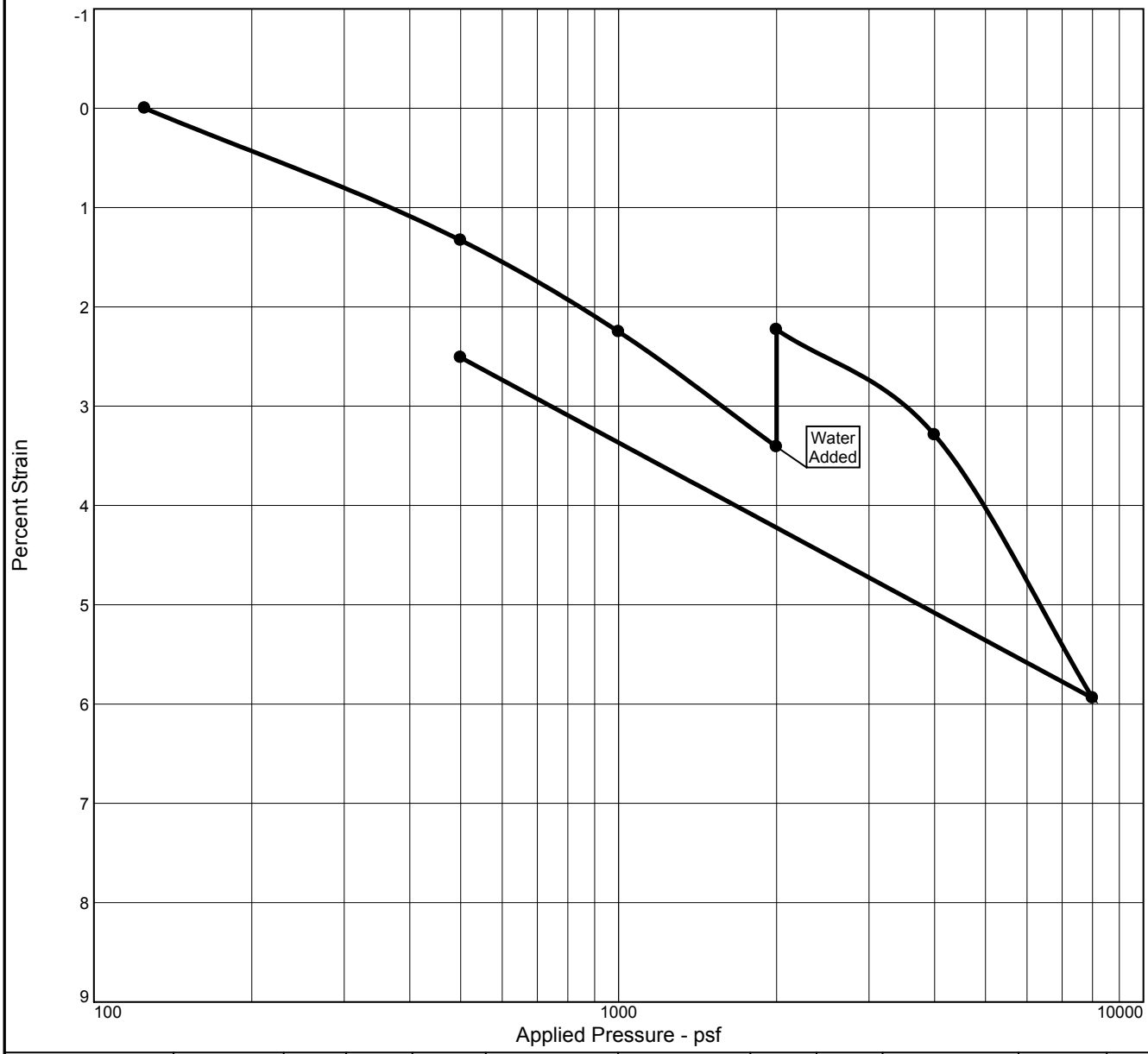
Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

CONSOLIDATION TEST REPORT



Natural		Dry Dens. (pcf)	LL	PI	Sp. Gr.	Overburden (psf)	P_c (psf)	C_c	C_r	Swell Press. (psf)	Swell %	e_o
Sat.	Moist.											
							3874			4174	1.2	

MATERIAL DESCRIPTION	USCS	AASHTO

Project No. 2880-62-0- **Client:** LAUSD

Project: LAUSD - Reseda High School

Sample Number: B-11 @ 15'

Remarks:

Gorian & Associates

Thousand Oaks, CA

Figure

Atlantic Consultants

112 Bunker Court
Folsom, CA 95630
(ph) 916.849.6420 (fax) 916.983.1838
Kerri@AtlanticCorrosionEngineers.com
corrprincess@ardennet.com
www.AtlanticCorrosionEngineers.com

May 8, 2017

Gorian and Associates, Inc.
Attention: Sheryl N. Shatz
3595 Old Conejo Road
Thousand Oaks, CA 91320

Atlantic Job No.: 2017-015

Subject: Soil Chemistry Analysis for Gorian Job # 2880-62-0-100
1 Sample: LAUSD – Reseda High School (B-1 @ 4')

Sample Number	As Rec'd Resistivity (ohm-cm)	[1]Minimum Resistivity (ohm-cm)	[2] Ph	[3] Sulfate %	[3] Chloride %	[4] Ammonia %	[5] Keldahl Nitrogen %	(As Rec'd) Description
B-1	4,400	1,120	7.25	0.0049	0.0082	<0.0001	0.0317	Medium Brown, Moist

<NOTE: SAMPLES WERE ANALYZED IN ACCORDANCE WITH THE FOLLOWING METHODS.

1. MINIMUM RESISTIVITY DETERMINED BY SOIL BOX METHOD, (PER ASTM 187)
2. PH MEASURED BY POTENTIOMETRIC METHOD USING STANDARD ELECTRODES. (PER CAL TRANS. #643)
3. CHLORIDE AND SULFATE WERE ANALYZED IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSIS FOR WATER AND WASTE, NO. 300 EPA-600/4-79-020. CONCENTRATION BY WEIGHT OF DRY SOIL.
4. AMMONIA WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 350.2
5. KELDAHL NITROGEN WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 351.2

CONCLUSIONS:

Material	**Corrosion Class**	**Recommendation**
Concrete	Negligible for sulfate and chloride exposure. pH is neutral to slightly basic.. (ACI 318)	-Type II Portland cement for concrete with maximum water cement ratio of 0.50 and a minimum of 3 inches of cover for steel reinforcement. - It is recommended that an impermeable moisture barrier (minimum 6 mil visqueen) be installed between concrete slabs and soil to reduce penetration of moisture from the soil into concrete slabs.
Steel Cast/Ductile Iron Mortar Coated Steel	Moderately Corrosive	- Install corrosion monitoring and cathodic protection for buried metal structures and piping. - Install joint bonds on all non-welded joints for buried ferrous metal piping to facilitate proper operation of corrosion monitoring and cathodic protection systems. - Electrically isolate underground metal piping from above grade piping and other metallic structures. - Use separate ground rods for grounding interior piping.
Copper Piping	Corrosive.	- Overhead plumbing is the most effective method of corrosion control. - Copper pipe is subject to corrosion when exposed to even trace amounts of ammonia and nitrogen. - Electrical isolation between hot and cold water lines and between structural steel should be maintained.

Atlantic Consultants

112 Bunker Court
Folsom, CA 95630
(ph) 916.849.6420 (fax) 916.983.1838
Kerri@AtlanticCorrosionEngineers.com
corrprincess@ardennet.com
www.AtlanticCorrosionEngineers.com

The test results and analysis are based on the sample provided, which may not be representative of overall site conditions. Additional sampling may be required to more fully characterize soil conditions.

Sincerely,

Kerri M. Howell, PE
President

Atlantic Consultants

112 Bunker Court
Folsom, CA 95630
(ph) 916.849.6420 (fax) 916.983.1838
Kerri@AtlanticCorrosionEngineers.com
corrprincess@ardennet.com
www.AtlanticCorrosionEngineers.com

May 8, 2017

Gorian and Associates, Inc.
Attention: Sheryl N. Shatz
3595 Old Conejo Road
Thousand Oaks, CA 91320

Atlantic Job No.: 2017-018

Subject: Soil Chemistry Analysis for Gorian Job # 2880-62-0-100
1 Sample: LAUSD – Reseda High School (B-11 @ 1')

Sample Number	As Rec'd Resistivity (ohm-cm)	[1]Minimum Resistivity (ohm-cm)	[2] Ph	[3] Sulfate %	[3] Chloride %	[4] Ammonia %	[5] Keldahl Nitrogen %	(As Rec'd) Description
B-11	2,520	600	7.32	0.3800	<0.0005	<0.0001	0.0223	Medium Brown

<NOTE: SAMPLES WERE ANALYZED IN ACCORDANCE WITH THE FOLLOWING METHODS.

1. MINIMUM RESISTIVITY DETERMINED BY SOIL BOX METHOD, (PER ASTM 187)
2. PH MEASURED BY POTENTIOMETRIC METHOD USING STANDARD ELECTRODES. (PER CAL TRANS. #643)
3. CHLORIDE AND SULFATE WERE ANALYZED IN ACCORDANCE WITH EPA METHODS FOR CHEMICAL ANALYSIS FOR WATER AND WASTE, NO. 300 EPA-600/4-79-020. CONCENTRATION BY WEIGHT OF DRY SOIL.
4. AMMONIA WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 350.2
5. KELDAHL NITROGEN WAS ANALYZED IN ACCORDANCE WITH EPA METHOD 351.2

CONCLUSIONS:

Material	**Corrosion Class**	**Recommendation**
Concrete	Severe for sulfate exposure. Negligible for chloride exposure. pH is neutral to slightly basic.. (ACI 318)	-Type V Portland cement for concrete with maximum water cement ratio of 0.45 and a minimum of 3 inches of cover for steel reinforcement. - It is recommended that an impermeable moisture barrier (minimum 10 mil visqueen) be installed between concrete slabs and soil to reduce penetration of moisture from the soil into concrete slabs.
Steel Cast/Ductile Iron Mortar Coated Steel	Corrosive	- Install corrosion monitoring and cathodic protection for buried metal structures and piping. - Install joint bonds on all non-welded joints for buried ferrous metal piping to facilitate proper operation of corrosion monitoring and cathodic protection systems. - Electrically isolate underground metal piping from above grade piping and other metallic structures. - Use separate ground rods for grounding interior piping.
Copper Piping	Corrosive.	- Overhead plumbing is the most effective method of corrosion control. - Copper pipe is subject to corrosion when exposed to even trace amounts of ammonia and nitrogen. - Electrical isolation between hot and cold water lines and between structural steel should be maintained.

Atlantic Consultants

112 Bunker Court
Folsom, CA 95630
(ph) 916.849.6420 (fax) 916.983.1838
Kerri@AtlanticCorrosionEngineers.com
corrprincess@ardennet.com
www.AtlanticCorrosionEngineers.com

The test results and analysis are based on the sample provided, which may not be representative of overall site conditions. Additional sampling may be required to more fully characterize soil conditions.

Sincerely,

Kerri M. Howell, PE
President

APPENDIX C

SEISMICALLY INDUCED SETTLEMENT ANALYSES

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014 (v4.1

Spectral Period

Peak ground acceleration

Latitude

Decimal degrees

34.18943

Time Horizon

Return period in years

475

Longitude

Decimal degrees, negative values for western longitudes

-118.53011

Site Class

259 m/s (Site class D)

Hazard Curve

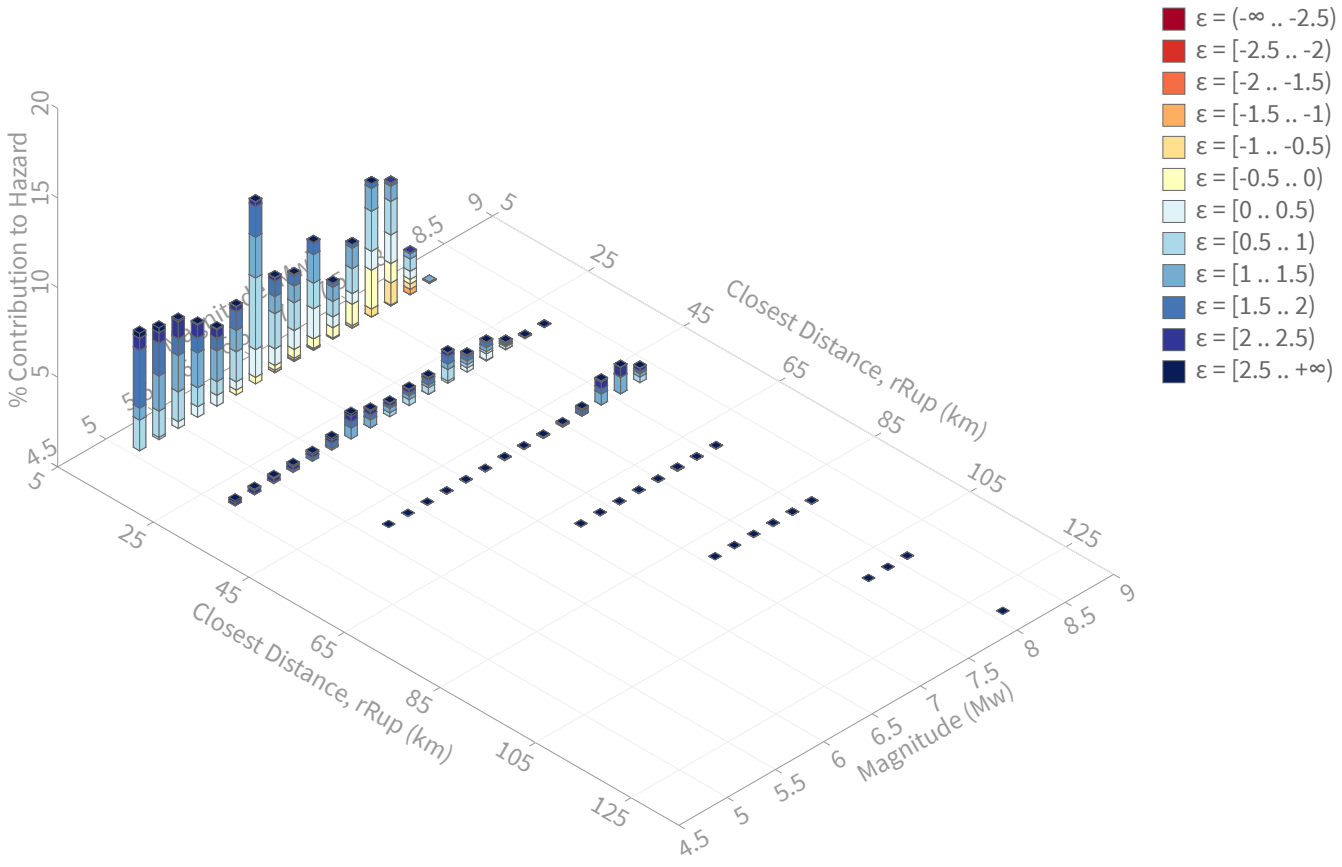
Please select “Edition”, “Location” & “Site Class” above to compute a hazard curve.

Compute Hazard Curve

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 475 yrs
Exceedance rate: 0.0021052632 yr^{-1}
PGA ground motion: 0.62192837 g

Recovered targets

Return period: 518.97575 yrs
Exceedance rate: 0.0019268723 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.21 %

Mean (for all sources)

r: 14.88 km
m: 6.54
ε_0: 1.01 σ

Mode (largest r-m bin)

r: 11.68 km
m: 6.3
ε_0: 0.98 σ
Contribution: 10.15 %

Mode (largest ε_0 bin)

r: 11.9 km
m: 6.27
ε_0: 0.75 σ
Contribution: 4 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							28.81
Santa Susana East (connector) [0]		12.59	6.53	0.83	118.499°W	34.314°N	11.43	4.78
Santa Susana alt 2 [3]		13.45	7.35	0.55	118.545°W	34.309°N	354.04	3.39
Compton [4]		13.34	7.56	0.30	118.608°W	34.022°N	201.07	1.98
Hollywood [2]		15.13	6.97	0.89	118.422°W	34.084°N	139.74	1.86
San Andreas (Mojave S) [3]		52.43	8.05	1.62	118.296°W	34.619°N	24.16	1.83
Mission Hills 2011 [1]		10.63	7.15	0.49	118.536°W	34.284°N	357.22	1.80
Northridge Hills [0]		9.23	7.65	0.16	118.494°W	34.266°N	21.63	1.68
Santa Monica alt 2 [3]		13.31	7.25	0.59	118.497°W	34.045°N	169.19	1.66
Sierra Madre (San Fernando) [2]		12.49	7.04	0.57	118.488°W	34.296°N	17.98	1.32
Northridge [3]		16.19	7.27	0.62	118.490°W	34.332°N	13.20	1.10
UC33brAvg_FM31	System							25.53
Santa Susana East (connector) [0]		12.59	6.81	0.70	118.499°W	34.314°N	11.43	3.98
Mission Hills 2011 [1]		10.63	6.51	0.82	118.536°W	34.284°N	357.22	2.46
San Andreas (Mojave S) [3]		52.43	8.05	1.62	118.296°W	34.619°N	24.16	1.83
Compton [4]		13.34	7.40	0.37	118.608°W	34.022°N	201.07	1.80
Hollywood [2]		15.13	7.27	0.72	118.422°W	34.084°N	139.74	1.75
Northridge [3]		16.19	7.20	0.64	118.490°W	34.332°N	13.20	1.68
Northridge Hills [0]		9.23	7.65	0.17	118.494°W	34.266°N	21.63	1.66
Sierra Madre (San Fernando) [2]		12.49	7.50	0.37	118.488°W	34.296°N	17.98	1.43
Santa Susana alt 1 [0]		13.61	7.53	0.44	118.544°W	34.310°N	354.67	1.38
UC33brAvg_FM31 (opt)	Grid							22.93
PointSourceFinite: -118.530, 34.221		6.13	5.64	0.88	118.530°W	34.221°N	0.00	3.38
PointSourceFinite: -118.530, 34.221		6.13	5.64	0.88	118.530°W	34.221°N	0.00	3.38
PointSourceFinite: -118.530, 34.248		7.80	5.78	1.01	118.530°W	34.248°N	0.00	2.21
PointSourceFinite: -118.530, 34.248		7.80	5.78	1.01	118.530°W	34.248°N	0.00	2.21
PointSourceFinite: -118.530, 34.302		12.70	5.74	1.48	118.530°W	34.302°N	0.00	2.01
PointSourceFinite: -118.530, 34.302		12.70	5.74	1.48	118.530°W	34.302°N	0.00	2.01
UC33brAvg_FM32 (opt)	Grid							22.74
PointSourceFinite: -118.530, 34.221		6.13	5.64	0.88	118.530°W	34.221°N	0.00	3.32
PointSourceFinite: -118.530, 34.221		6.13	5.64	0.88	118.530°W	34.221°N	0.00	3.32
PointSourceFinite: -118.530, 34.248		7.80	5.78	1.01	118.530°W	34.248°N	0.00	2.21
PointSourceFinite: -118.530, 34.248		7.80	5.78	1.01	118.530°W	34.248°N	0.00	2.21
PointSourceFinite: -118.530, 34.302		12.75	5.73	1.49	118.530°W	34.302°N	0.00	1.94
PointSourceFinite: -118.530, 34.302		12.75	5.73	1.49	118.530°W	34.302°N	0.00	1.94

U.S. Geological Survey - Earthquake Hazards Program

Unified Hazard Tool

Please do not use this tool to obtain ground motion parameter values for the design code reference documents covered by the U.S. Seismic Design Maps web tools (e.g., the International Building Code and the ASCE 7 or 41 Standard). The values returned by the two applications are not identical.

Input

Edition

Dynamic: Conterminous U.S. 2014 (v4.1

Spectral Period

Peak ground acceleration

Latitude

Decimal degrees

34.18943

Time Horizon

Return period in years

2475

Longitude

Decimal degrees, negative values for western longitudes

-118.53011

Site Class

259 m/s (Site class D)

Hazard Curve

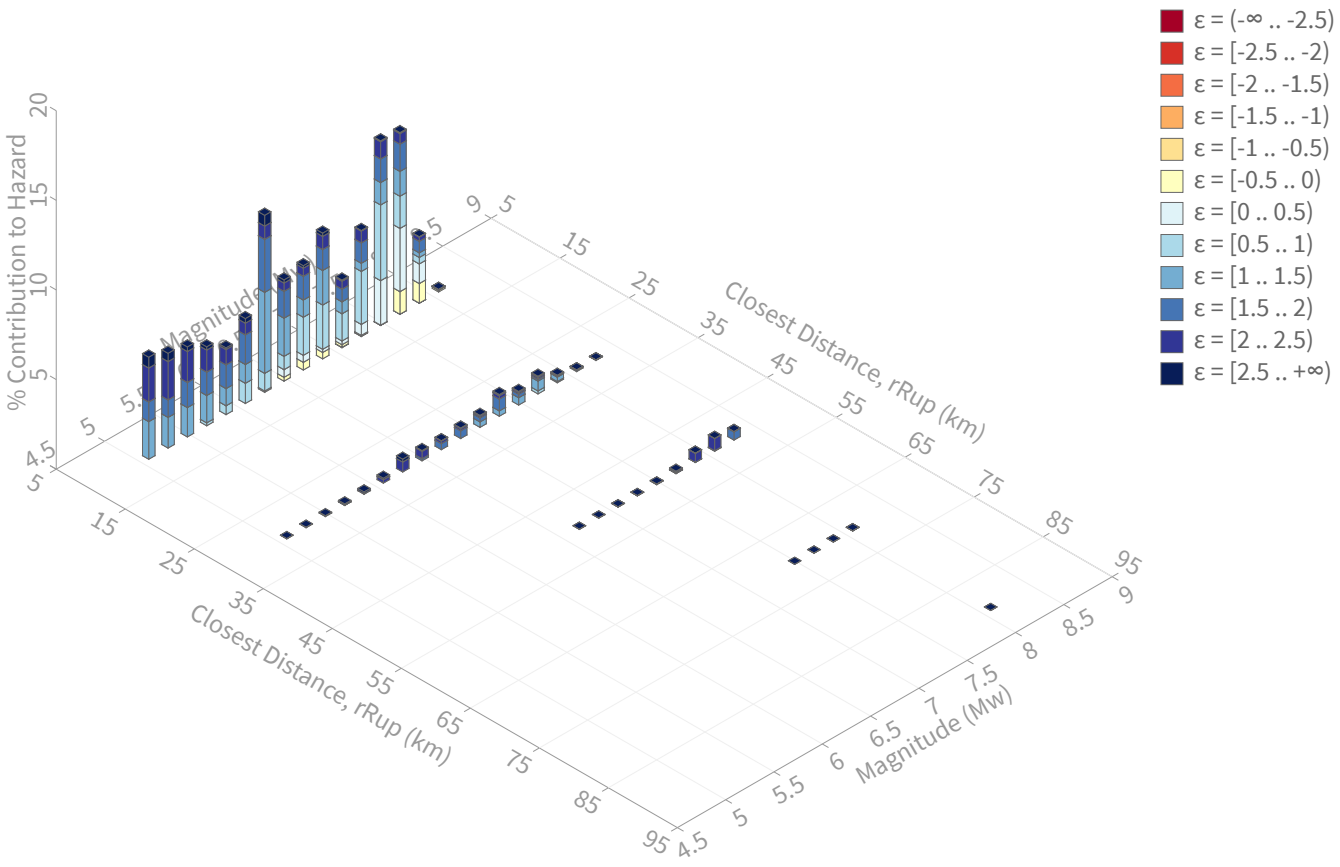
Please select “Edition”, “Location” & “Site Class” above to compute a hazard curve.

Compute Hazard Curve

Deaggregation

Component

Total



Summary statistics for, Deaggregation: Total

Deaggregation targets

Return period: 2475 yrs
Exceedance rate: 0.0004040404 yr^{-1}
PGA ground motion: 1.1032353 g

Recovered targets

Return period: 2880.8383 yrs
Exceedance rate: 0.00034712118 yr^{-1}

Totals

Binned: 100 %
Residual: 0 %
Trace: 0.12 %

Mean (for all sources)

r: 12.85 km
m: 6.67
ε_0: 1.36 σ

Mode (largest r-m bin)

r: 13.1 km
m: 7.52
ε_0: 0.94 σ
Contribution: 10.29 %

Mode (largest ε_0 bin)

r: 11.17 km
m: 6.31
ε_0: 1.26 σ
Contribution: 4.52 %

Discretization

r: min = 0.0, max = 1000.0, Δ = 20.0 km
m: min = 4.4, max = 9.4, Δ = 0.2
ε: min = -3.0, max = 3.0, Δ = 0.5 σ

Epsilon keys

ε0: [-∞ .. -2.5)
ε1: [-2.5 .. -2.0)
ε2: [-2.0 .. -1.5)
ε3: [-1.5 .. -1.0)
ε4: [-1.0 .. -0.5)
ε5: [-0.5 .. 0.0)
ε6: [0.0 .. 0.5)
ε7: [0.5 .. 1.0)
ε8: [1.0 .. 1.5)
ε9: [1.5 .. 2.0)
ε10: [2.0 .. 2.5)
ε11: [2.5 .. +∞]

Deaggregation Contributors

Source Set ↳ Source	Type	r	m	ε_0	lon	lat	az	%
UC33brAvg_FM32	System							31.53
Santa Susana East (connector) [0]		12.59	6.58	1.46	118.499°W	34.314°N	11.43	5.00
Santa Susana alt 2 [3]		13.45	7.38	0.96	118.545°W	34.309°N	354.04	4.55
Northridge Hills [0]		9.23	7.67	0.51	118.494°W	34.266°N	21.63	2.86
Compton [4]		13.34	7.58	1.03	118.608°W	34.022°N	201.07	2.70
Mission Hills 2011 [1]		10.63	7.18	0.87	118.536°W	34.284°N	357.22	2.50
Santa Monica alt 2 [3]		13.31	7.33	1.13	118.497°W	34.045°N	169.19	1.99
Hollywood [2]		15.13	7.01	1.38	118.422°W	34.084°N	139.74	1.87
Sierra Madre (San Fernando) [2]		12.49	7.06	1.13	118.488°W	34.296°N	17.98	1.72
Northridge [3]		16.19	7.38	1.25	118.490°W	34.332°N	13.20	1.28
UC33brAvg_FM31	System							27.61
Santa Susana East (connector) [0]		12.59	6.89	1.30	118.499°W	34.314°N	11.43	4.52
Mission Hills 2011 [1]		10.63	6.53	1.22	118.536°W	34.284°N	357.22	2.87
Northridge Hills [0]		9.23	7.67	0.50	118.494°W	34.266°N	21.63	2.83
Compton [4]		13.34	7.42	1.14	118.608°W	34.022°N	201.07	2.27
Sierra Madre (San Fernando) [2]		12.49	7.52	0.89	118.488°W	34.296°N	17.98	2.10
Hollywood [2]		15.13	7.31	1.22	118.422°W	34.084°N	139.74	1.97
Santa Susana alt 1 [0]		13.61	7.55	0.92	118.544°W	34.310°N	354.67	1.94
Northridge [3]		16.19	7.30	1.32	118.490°W	34.332°N	13.20	1.87
UC33brAvg_FM31 (opt)	Grid							20.54
PointSourceFinite: -118.530, 34.221		5.99	5.69	1.42	118.530°W	34.221°N	0.00	3.95
PointSourceFinite: -118.530, 34.221		5.99	5.69	1.42	118.530°W	34.221°N	0.00	3.95
PointSourceFinite: -118.530, 34.248		7.47	5.89	1.45	118.530°W	34.248°N	0.00	2.34
PointSourceFinite: -118.530, 34.248		7.47	5.89	1.45	118.530°W	34.248°N	0.00	2.34
PointSourceFinite: -118.530, 34.302		12.25	5.84	1.84	118.530°W	34.302°N	0.00	1.47
PointSourceFinite: -118.530, 34.302		12.25	5.84	1.84	118.530°W	34.302°N	0.00	1.47
UC33brAvg_FM32 (opt)	Grid							20.32
PointSourceFinite: -118.530, 34.221		5.99	5.69	1.42	118.530°W	34.221°N	0.00	3.88
PointSourceFinite: -118.530, 34.221		5.99	5.69	1.42	118.530°W	34.221°N	0.00	3.88
PointSourceFinite: -118.530, 34.248		7.47	5.89	1.45	118.530°W	34.248°N	0.00	2.34
PointSourceFinite: -118.530, 34.248		7.47	5.89	1.45	118.530°W	34.248°N	0.00	2.34
PointSourceFinite: -118.530, 34.302		12.31	5.83	1.85	118.530°W	34.302°N	0.00	1.41
PointSourceFinite: -118.530, 34.302		12.31	5.83	1.85	118.530°W	34.302°N	0.00	1.41

USGS Design Maps Detailed Report

ASCE 7-10 Standard (34.18943°N, 118.53011°W)

Site Class D – "Stiff Soil", Risk Category I/II/III

Section 11.4.1 — Mapped Acceleration Parameters

Note: Ground motion values provided below are for the direction of maximum horizontal spectral response acceleration. They have been converted from corresponding geometric mean ground motions computed by the USGS by applying factors of 1.1 (to obtain S_S) and 1.3 (to obtain S_1). Maps in the 2010 ASCE-7 Standard are provided for Site Class B. Adjustments for other Site Classes are made, as needed, in Section 11.4.3.

From Figure 22-1 [1]	S_S = 1.760 g
From Figure 22-2 [2]	S_1 = 0.620 g

Section 11.4.2 — Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Chapter 20.

Table 20.3–1 Site Classification

Site Class	$\overline{v}_S$	$\overline{N}$ or $\overline{N}_{ch}$	$\overline{s}_u$
A. Hard Rock	>5,000 ft/s	N/A	N/A
B. Rock	2,500 to 5,000 ft/s	N/A	N/A
C. Very dense soil and soft rock	1,200 to 2,500 ft/s	>50	>2,000 psf
D. Stiff Soil	600 to 1,200 ft/s	15 to 50	1,000 to 2,000 psf
E. Soft clay soil	<600 ft/s	<15	<1,000 psf
	Any profile with more than 10 ft of soil having the characteristics: • Plasticity index PI > 20, • Moisture content w ≥ 40%, and • Undrained shear strength $\overline{s}_u$ < 500 psf		
F. Soils requiring site response analysis in accordance with Section 21.1	See Section 20.3.1		

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Section 11.4.3 — Site Coefficients and Risk–Targeted Maximum Considered Earthquake (MCE_R) Spectral Response Acceleration Parameters

Table 11.4–1: Site Coefficient F_a

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at Short Period				
	$S_S \le 0.25$	$S_S = 0.50$	$S_S = 0.75$	$S_S = 1.00$	$S_S \ge 1.25$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight–line interpolation for intermediate values of S_S

For Site Class = D and S_S = 1.760 g, F_a = 1.000

Table 11.4–2: Site Coefficient F_v

Site Class	Mapped MCE_R Spectral Response Acceleration Parameter at 1–s Period				
	$S_1 \le 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \ge 0.50$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
E	3.5	3.2	2.8	2.4	2.4
F	See Section 11.4.7 of ASCE 7				

Note: Use straight–line interpolation for intermediate values of S_1

For Site Class = D and S_1 = 0.620 g, F_v = 1.500

Equation (11.4–1):	$S_{MS} = F_a S_S = 1.000 \times 1.760 = 1.760$ g

Equation (11.4–2):	$S_{M1} = F_v S_1 = 1.500 \times 0.620 = 0.930$ g

Section 11.4.4 — Design Spectral Acceleration Parameters

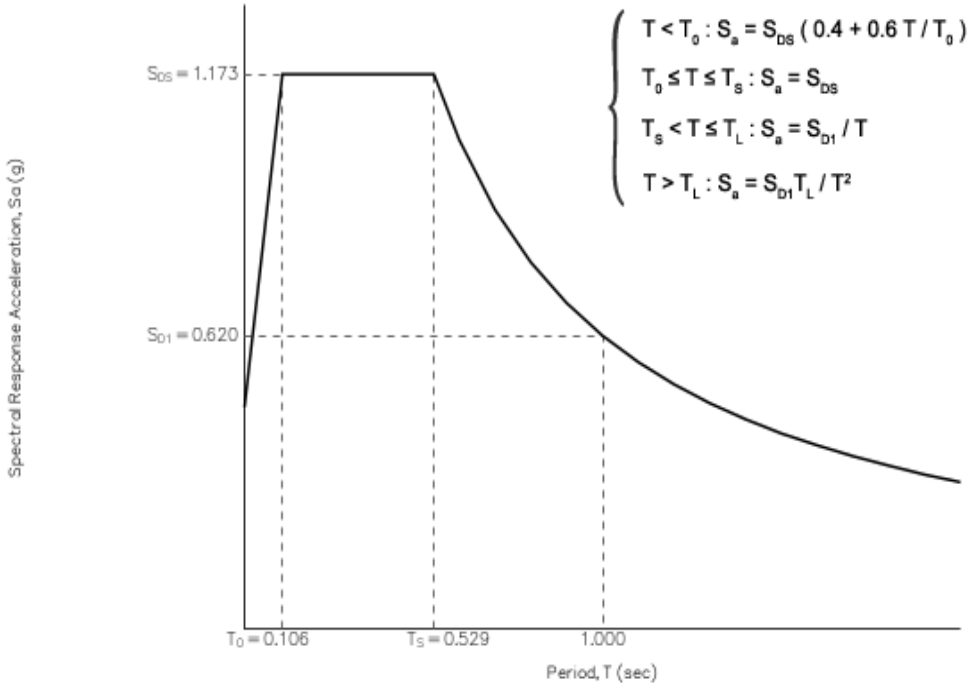
Equation (11.4–3):	$S_{DS} = ⅔ S_{MS} = ⅔ \times 1.760 = 1.173$ g

Equation (11.4–4):	$S_{D1} = ⅔ S_{M1} = ⅔ \times 0.930 = 0.620$ g

Section 11.4.5 — Design Response Spectrum

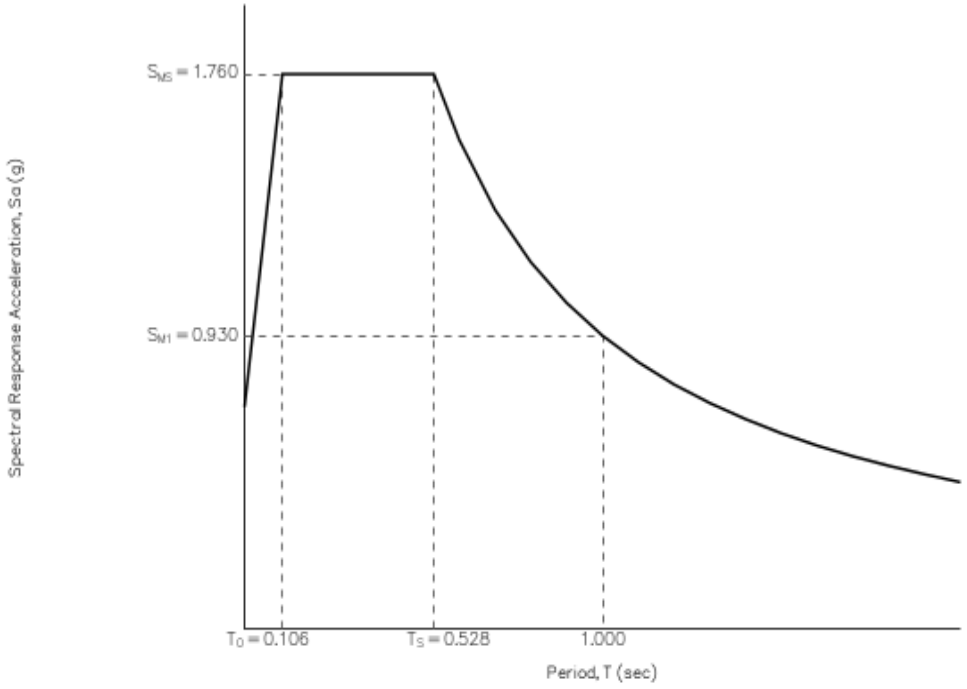
From Figure 22-12 [3]	T_L = 8 seconds

Figure 11.4–1: Design Response Spectrum



Section 11.4.6 — Risk-Targeted Maximum Considered Earthquake (MCE_R) Response Spectrum

The MCE_R Response Spectrum is determined by multiplying the design response spectrum above by 1.5.



Section 11.8.3 — Additional Geotechnical Investigation Report Requirements for Seismic Design Categories D through F

From Figure 22-7 [4] — PGA = 0.645

Equation (11.8–1): — $PGA_M = F_{PGA}PGA = 1.000 \times 0.645 = 0.645$ g

Table 11.8–1: Site Coefficient F_{PGA}

Site Class	Mapped MCE Geometric Mean Peak Ground Acceleration, PGA				
	PGA ≤ 0.10	PGA = 0.20	PGA = 0.30	PGA = 0.40	PGA ≥ 0.50
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	See Section 11.4.7 of ASCE 7				

Note: Use straight–line interpolation for intermediate values of PGA

For Site Class = D and PGA = 0.645 g, $F_{PGA} = 1.000$

Section 21.2.1.1 — Method 1 (from Chapter 21 – Site-Specific Ground Motion Procedures for Seismic Design)

From Figure 22-17 [5] — $C_{RS} = 1.028$

From Figure 22-18 [6] — $C_{R1} = 1.039$

Section 11.6 — Seismic Design Category

Table 11.6-1 Seismic Design Category Based on Short Period Response Acceleration Parameter

VALUE OF S_{DS}	RISK CATEGORY		
	I or II	III	IV
$S_{DS} < 0.167g$	A	A	A
$0.167g \le S_{DS} < 0.33g$	B	B	C
$0.33g \le S_{DS} < 0.50g$	C	C	D
$0.50g \le S_{DS}$	D	D	D

For Risk Category = I and S_{DS} = 1.173 g, Seismic Design Category = D

Table 11.6-2 Seismic Design Category Based on 1-S Period Response Acceleration Parameter

VALUE OF S_{D1}	RISK CATEGORY		
	I or II	III	IV
$S_{D1} < 0.067g$	A	A	A
$0.067g \le S_{D1} < 0.133g$	B	B	C
$0.133g \le S_{D1} < 0.20g$	C	C	D
$0.20g \le S_{D1}$	D	D	D

For Risk Category = I and S_{D1} = 0.620 g, Seismic Design Category = D

Note: When S_1 is greater than or equal to 0.75g, the Seismic Design Category is E for buildings in Risk Categories I, II, and III, and F for those in Risk Category IV, irrespective of the above.

Seismic Design Category ≡ "the more severe design category in accordance with Table 11.6-1 or 11.6-2" = D

Note: See Section 11.6 for alternative approaches to calculating Seismic Design Category.

References

1. Figure 22-1: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-1.pdf
2. Figure 22-2: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-2.pdf
3. Figure 22-12: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-12.pdf
4. Figure 22-7: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-7.pdf
5. Figure 22-17: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-17.pdf
6. Figure 22-18: https://earthquake.usgs.gov/hazards/designmaps/downloads/pdfs/2010_ASCE-7_Figure_22-18.pdf

USGS Design Maps Detailed Report

ASCE 41-13 Retrofit Standard, BSE-1E (34.18943°N, 118.53011°W)

Site Class D – "Stiff Soil"

Section 2.4.1 – General Procedure for Hazard Due to Ground Shaking

20%/50-year maximum direction spectral response acceleration for 0.2s and 1.0s periods, respectively:

From Section 2.4.1.4	$S_{S,20/50}$ = 0.813 g
From Section 2.4.1.4	$S_{1,20/50}$ = 0.291 g

Section 2.4.1.6 – Adjustment for Site Class

The authority having jurisdiction (not the USGS), site-specific geotechnical data, and/or the default has classified the site as Site Class D, based on the site soil properties in accordance with Section 2.4.1.6.1.

SITE CLASS	SOIL PROFILE NAME	Soil shear wave velocity, $\overline{v}_S$, (ft/s)	Standard penetration resistance, $\overline{N}$	Soil undrained shear strength, $\overline{s}_u$, (psf)
A	Hard rock	$\overline{v}_S$ > 5,000	N/A	N/A
B	Rock	2,500 < $\overline{v}_S$ ≤ 5,000	N/A	N/A
C	Very dense soil and soft rock	1,200 < $\overline{v}_S$ ≤ 2,500	$\overline{N}$ > 50	>2,000 psf
D	Stiff soil profile	600 ≤ $\overline{v}_S$ < 1,200	15 ≤ $\overline{N}$ ≤ 50	1,000 to 2,000 psf
E	Stiff soil profile	$\overline{v}_S$ < 600	$\overline{N}$ < 15	<1,000 psf
E	—	Any profile with more than 10 ft of soil having the characteristics: 1. Plasticity index PI > 20, 2. Moisture content w ≥ 40%, and 3. Undrained shear strength $\overline{s}_u$ < 500 psf		
F	—	Any profile containing soils having one or more of the following characteristics: 1. Soils vulnerable to potential failure or collapse under seismic loading such as liquefiable soils, quick and highly sensitive clays, collapsible weakly cemented soils. 2. Peats and/or highly organic clays (H > 10 feet of peat and/or highly organic clay where H = thickness of soil) 3. Very high plasticity clays (H > 25 feet with plasticity index PI > 75) 4. Very thick soft/medium stiff clays (H > 120 feet)		

For SI: 1ft/s = 0.3048 m/s 1lb/ft² = 0.0479 kN/m²

Table 2–3. Values of F_a as a Function of Site Class and Mapped Short-Period Spectral Response Acceleration S_s

Site Class	Mapped Spectral Acceleration at Short-Period S_s				
	$S_S \leq 0.25$	$S_S = 0.50$	$S_S = 0.75$	$S_S = 1.00$	$S_S \geq 1.25$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.2	1.2	1.1	1.0	1.0
D	1.6	1.4	1.2	1.1	1.0
E	2.5	1.7	1.2	0.9	0.9
F	Site-specific geotechnical and dynamic site response analyses shall be performed				

Note: Use straight–line interpolation for intermediate values of S_S

For Site Class = D and $S_S = 0.813$ g, $F_a = 1.175$

Table 2–4. Values of F_v as a Function of Site Class and Mapped Spectral Response Acceleration at 1 s Period S_1

Site Class	Mapped Spectral Acceleration at 1 s Period S_1				
	$S_1 \leq 0.10$	$S_1 = 0.20$	$S_1 = 0.30$	$S_1 = 0.40$	$S_1 \geq 0.50$
A	0.8	0.8	0.8	0.8	0.8
B	1.0	1.0	1.0	1.0	1.0
C	1.7	1.6	1.5	1.4	1.3
D	2.4	2.0	1.8	1.6	1.5
E	3.5	3.2	2.8	2.4	2.4
F	Site-specific geotechnical and dynamic site response analyses shall be performed				

Note: Use straight–line interpolation for intermediate values of S_1

For Site Class = D and $S_1 = 0.291$ g, $F_v = 1.819$

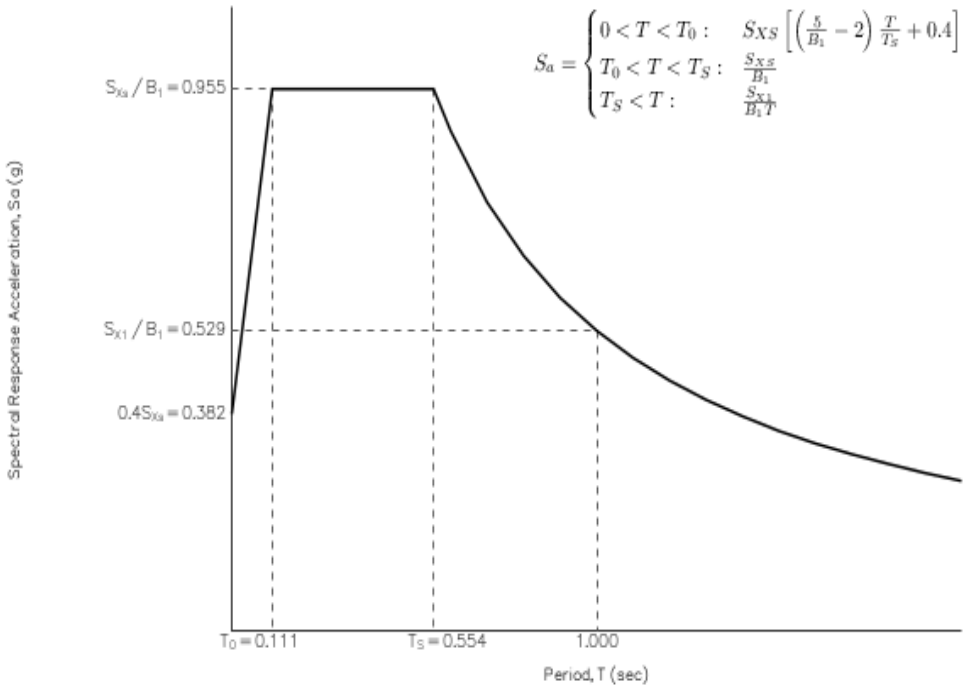
Provided as a reference for Equation (2-4):	$F_aS_{S,20/50}$ = 1.175 x 0.813 g = 0.955 g
Provided as a reference for Equation (2-5):	$F_vS_{1,20/50}$ = 1.819 x 0.291 g = 0.529 g
Provided as a reference for Equation (2-4):	$S_{XS,BSE-1N}$ = ⅔ x $S_{XS,BSE-2N}$ = ⅔ x $F_aS_{S,BSE-2N}$ = 1.173 g
Provided as a reference for Equation (2-5):	$S_{X1,BSE-1N}$ = ⅔ x $S_{X1,BSE-2N}$ = ⅔ x $F_vS_{1,BSE-2N}$ = 0.620 g

Equation (2–4): $S_{XS,BSE-1E}$ = MIN[$F_aS_{S,20/50}$, $S_{XS,BSE-1N}$] = MIN[0.955g, 1.173g] = 0.955g

Equation (2–5): $S_{X1,BSE-1E}$ = MIN[$F_vS_{S,20/50}$, $S_{X1,BSE-1N}$] = MIN[0.529g, 0.620g] = 0.529g

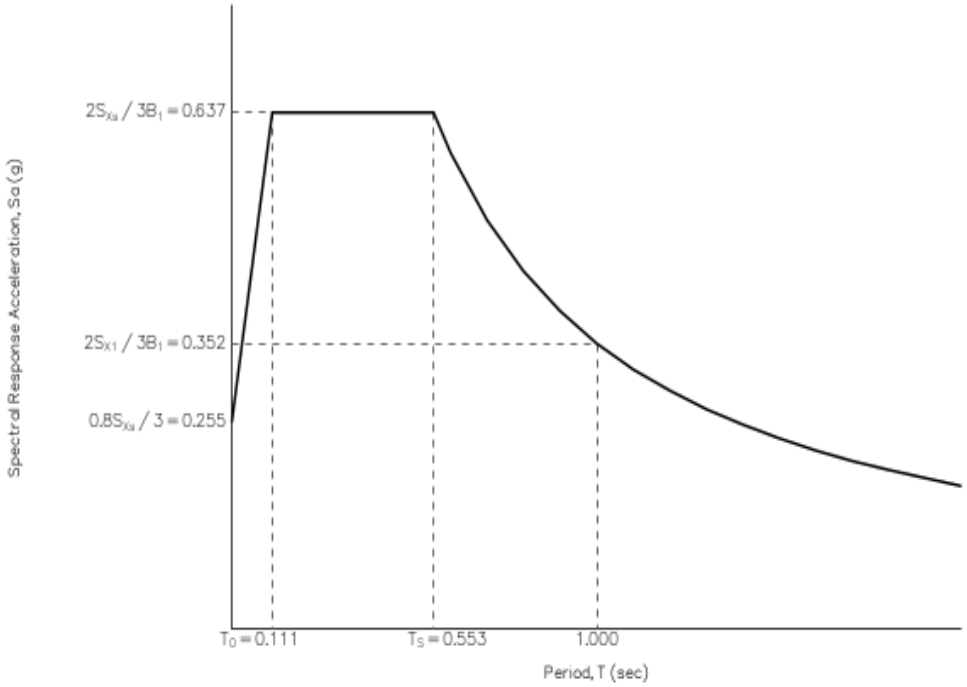
Section 2.4.1.7.1 — General Horizontal Response Spectrum

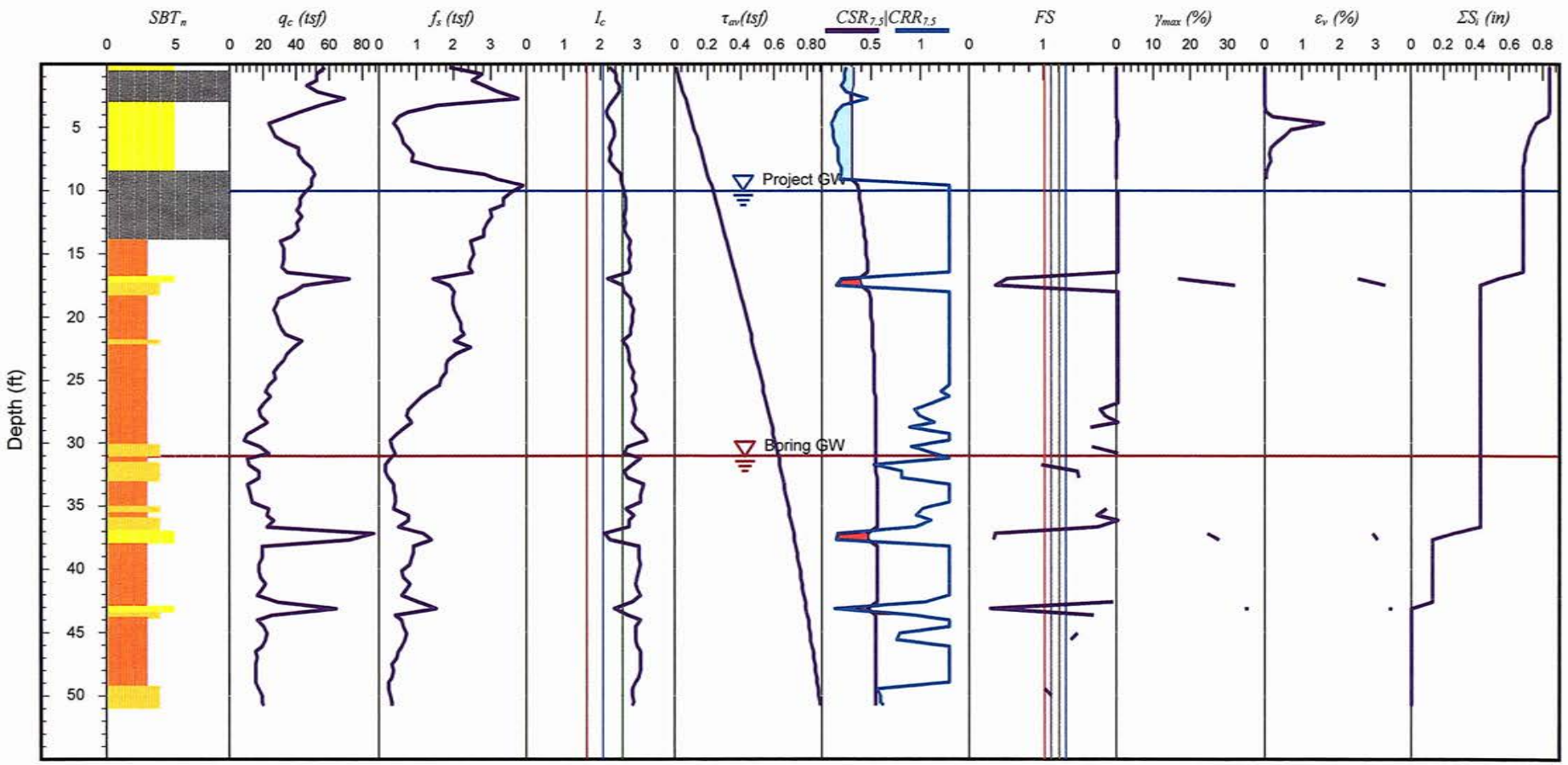
Figure 2-1. General Horizontal Response Spectrum



Section 2.4.1.7.2 — General Vertical Response Spectrum

The General Vertical Response Spectrum is determined by multiplying the General Horizontal Response Spectrum by ⅔.





- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 0.84 in
Settlement at Bottom of Footing = 0.84 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: [dry] Yi (2010); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

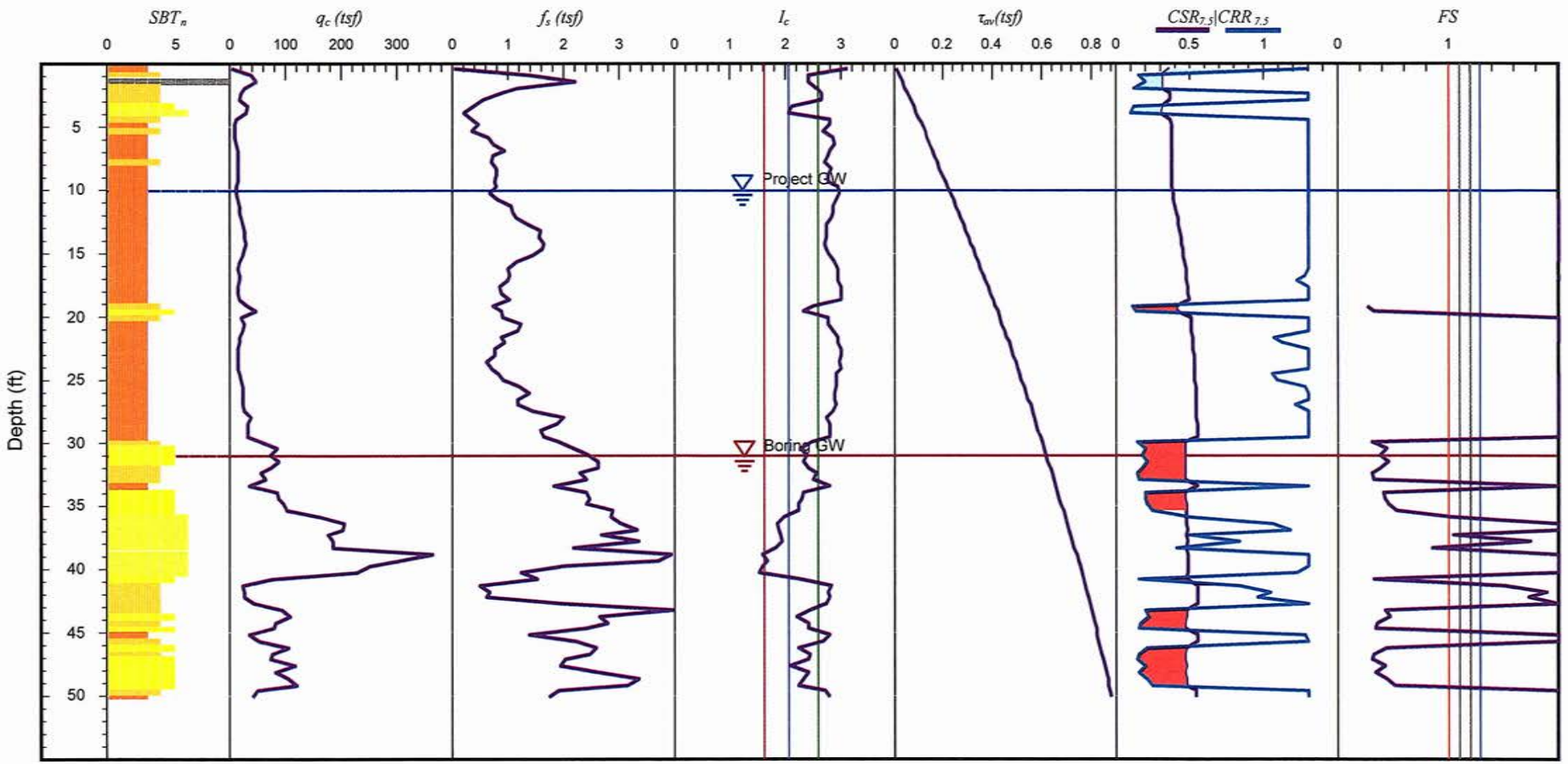
GORIAN & ASSOCIATES, INC.

Seismic Settlement Potential - CPT Data

Project:	Reseda HS				
Location:	Reseda				
Job Number:	2880-62-0-100	CPT No.:	2	Figure:	1

X:\2880-O-O-LA Unified Sch Dist-Master File\2880-62 Reseda High School\Seis Set\GeoSuite_2880-62-0-100_2.csv

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2017 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 6/9/2017 5:17:34 PM



- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 2.84 in
Settlement at Bottom of Footing = 2.84 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: [dry] Yi (2010); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

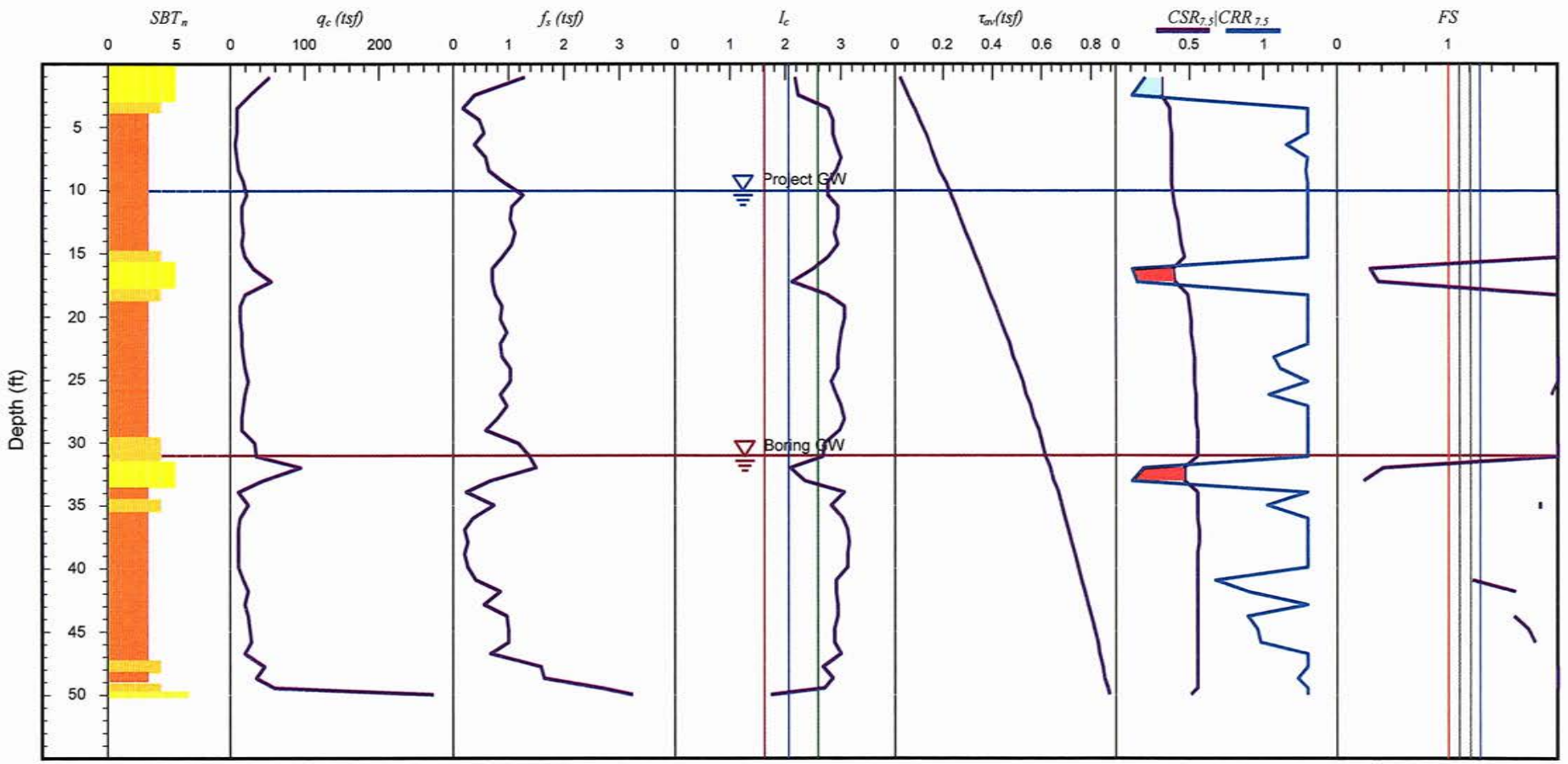
GORIAN & ASSOCIATES, INC.

Liquefaction Potential - CPT Data

Project:	Reseda High School				
Location:	Reseda				
Job Number:	2880-62-0-100	CPT No.:	5	Figure:	2

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-62 Reseda High School\Sels Sett\GeoSuite_2880-62-0-100_5.csv

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2017 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 6/9/2017 5:17:34 PM



- Sensitive fine grained
- Organic soils - peats
- Clay to silty clay
- Silty clay to clayey silt
- Sandy silt to silty sand
- Silty sand to clean sand
- Dense sand to gravelly sand
- Clayey sand to very stiff sand
- Very stiff fine grained *

* Overconsolidated or cemented

Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 1.30 in
Settlement at Bottom of Footing = 1.30 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: [dry] Yi (2010); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

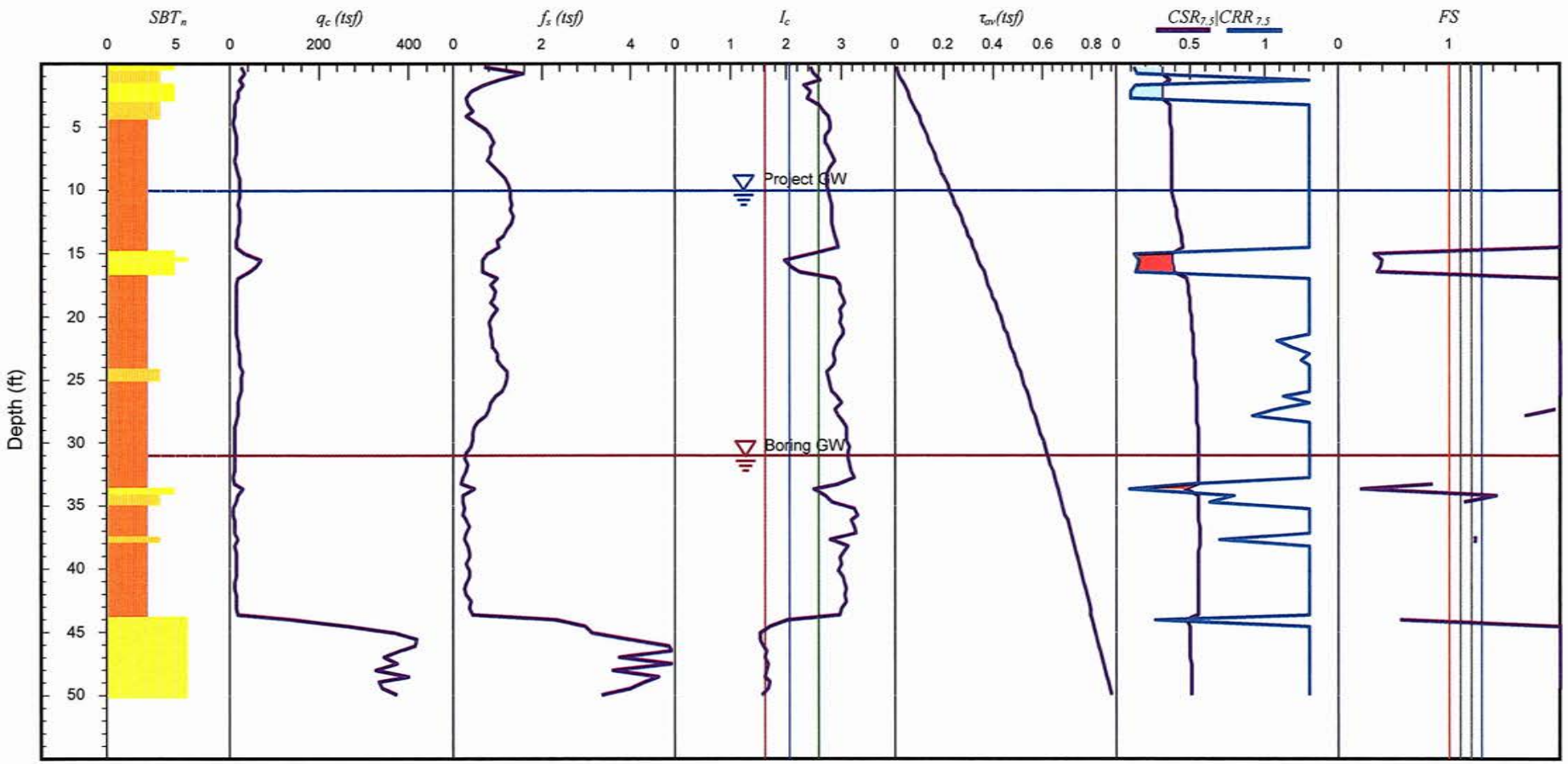
GORIAN & ASSOCIATES, INC.

Liquefaction Potential - CPT Data

Project:	Reseda High School				
Location:	Reseda				
Job Number:	2880-62-0-100	CPT No.:	8	Figure:	3

X:\2680-0-0-LA Unified Sch Dist-Master File\2880-62 Reseda High School\Seis Set\GeoSuite_2880-62-0-100_8.csv

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2017 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 6/9/2017 5:17:34 PM



Sensitive fine grained
Organic soils - peats
Clay to silty clay
Silty clay to clayey silt
Sandy silt to silty sand
Silty sand to clean sand
Dense sand to gravelly sand
Clayey sand to very stiff sand
Very stiff fine grained *

* Overconsolidated or cemented

Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 0.94 in
Settlement at Bottom of Footing = 0.94 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: [dry] Yi (2010); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

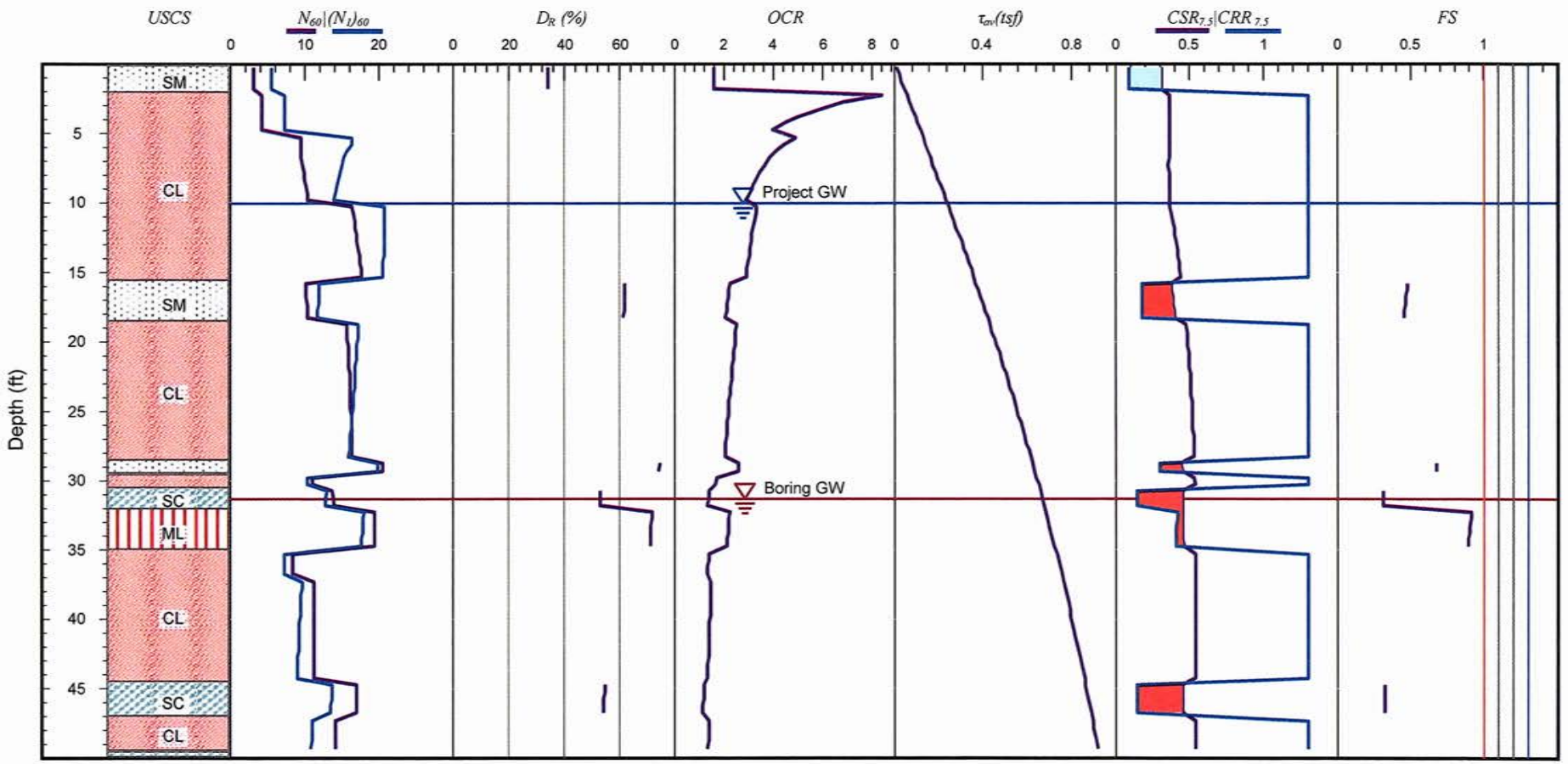
GORIAN & ASSOCIATES, INC.

Liquefaction Potential - CPT Data

Project:	Reseda High School				
Location:	Reseda				
Job Number:	2880-62-0-100	CPT No.:	10	Figure:	4

C:\Users\Engineer\Documents\GeoSuite_2880-62-0-100_10.csv

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2017 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 6/9/2017 5:17:34 PM



Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 2.44 in
Settlement at Bottom of Footing = 2.44 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC.

Liquefaction Potential - SPT Data

Project:	Reseda HS				
Location:					
Work Order:	2880-62-0-100	Boring No.:	8	Figure:	5

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-62 Reseda High School\Seis Set\GeoSuite_2880-62-0-100_8 boring.csv

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2017 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 6/9/2017 5:17:34 PM

LATERAL SPREAD

Exploration Point: CPT-10

Youd, Hansen & Bartlett, Dec. 2002

$\log D_H = -16.713+1.532M-1.406\log R^*-0.012R+.592\log W+0.540\log T_{15}+3.413\log(100-F_{15})-.795\log(D50_{15}+0.1\ mm)$

M = Moment Magnitude of EQ
R = distance from site to seismic energy source (in kilometers)

$R^* = R+R_0$

$R_0 = 10^{(0.89M-5.64)}$

W = free face ratio (height of free face divided by distance from toe of free face to point in question, in %)
T_{15} = cumulative thickness of granular layers with corrected blow counts less than 15 (in meters)
F_{15} = average fines content (-200) for granular materials included in T_{15}
$D50_{15}$ = average mean grain size for materials within T_{15}

M =	6.7	H =	15
R =	12.85	L =	300
R* =	14.82833575		
W =	5.0		
T_{15} =	0.9		
F_{15} =	46		
$D50_{15}$ =	0.09		

$\log D_H$ = -1.42018

D_H = 0.038003 meters

0.12 feet
1.50 inches

GEOTECHNICAL EXPLORATION MAP

Gorian & Associates, Inc. *Applied Earth Sciences*		
Job No: 2880-62-0-100		Date: June 2017
Scale: 1"=60'	Drawn by:	PLATE 1
	Approved by:	

EXPLANATION

B-11 — Approximate Location of Geotechnical Boring

CPT-10 — Approximate Location of Cone Penetrometer Test Sounding

B — B' Approximate Location of Geotechnical Cross Section

LOS ANGELES UNIFIED SCHOOL DISTRICT · BOARD OF EDUCATION

FACILITIES RECORDS MANAGEMENT UNIT
LONG-RANGE FACILITIES PLANNING
333 S. BEAUDRY AVENUE, 23th FLR
LOS ANGELES, CA 90071

PLOT PLAN

PROJECT

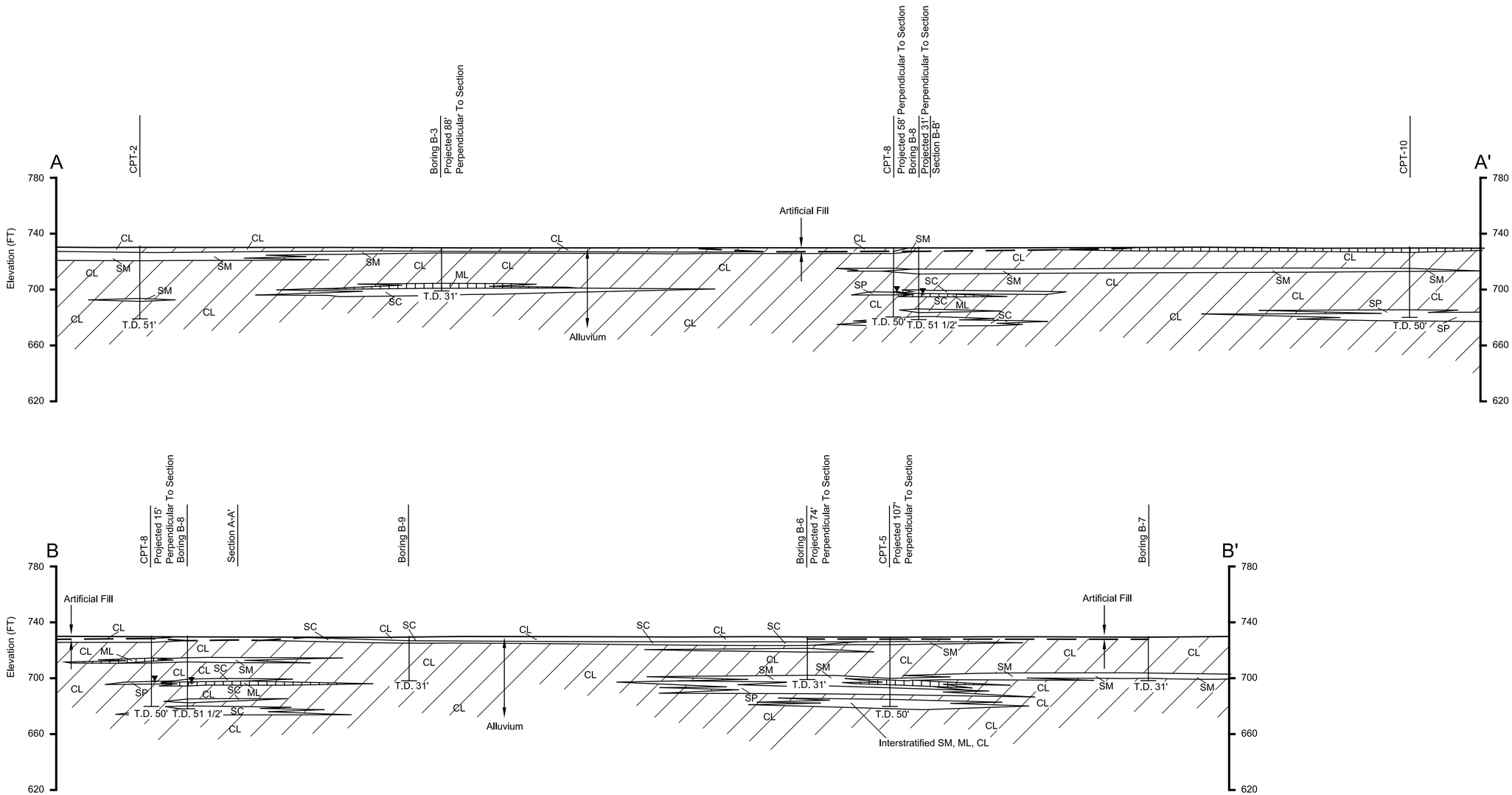
SCHOOL
RESEDA SENIOR HIGH
18230 KITTRIDGE STREET
RESEDA, CA 91335

VERIFICATION	NO.	DATE	BY

REVISIONS	NO.	DATE	BY

LOCATION CODE	8514
DRAWN BY	DRAWING NO.
CHECKED BY	INDEX NO.
DATE 00-00-00	1/1

rps581 4.dwg



GEOTECHNICAL CROSS SECTIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE ST.
RESEDA, CALIFORNIA

Gorian & Associates, Inc.
Applied Earth Sciences

Job No: 2880-62-0-100		Date: June 2017
Scale: 1"=40'	Drawn by:	PLATE 2
	Approved by:	

APPENDIX F-1

Reseda High School Geotech Report Additional Conclusions

Applied Earth Sciences
Geotechnical Engineers
Engineering Geologists
DSA Accepted Testing Laboratory
Special Inspection and Materials Testing

3595 Old Conejo Road
Thousand Oaks
California 91320-2122
805 375-9262
805 375-9263 fax

May 16, 2018

Los Angeles Unified School District
333 S Beaudry Avenue, 22nd Floor
Los Angeles, California 90017

Work Order: 2880-62-0-101

Attention: Cristina Cho

Subject: **Additional Analyses, Reseda High School, 18230 Kittridge Street, Reseda, California**

Reference: Gorian and Associates, Inc., June 9, 2017, *Preliminary Geotechnical Site Evaluation, Reseda High School, 18230 Kittridge Street, Reseda, California*; Work Order: 2880-62-0-100.

Information was recently provided to us indicating the buildings at Reseda High School are constructed on pile foundations. As such the anticipated differential seismic settlement may be re-evaluated. Based on discussions with the design team, the structural engineer has specifically selected the Assembly Building to evaluate. The provided plans, from 1953, show piles ranging in length from 20 to 49 feet, with individual piles or groups supporting loads varying from 15 to 317 kips (Plan Sheet S-X14, Pile Schedules). Plan Sheet S-X12 Piling Details & Schedules indicates the piles could have been Raymond Step Taper, Union Metal Monotube or Pacific Union Metal Co. Spun Pile.

Pile Capacity

Back calculation of the pile sizes, lengths and loads leads to a shear strength on the order of 500 psf increasing with depth to approximately 1,500 psf.

The 1953 borings closest to the Assembly Building, shown on Sheet 2 of 105, Key Plot Plan are boring 3 north of the building and boring 4 south of the building, both on the west side. The 1953 boring logs indicate primarily silty to sandy clays and clayey silts in the borings, with sandy silt within the upper 5 to 8 feet and in boring 4 a layer of silty sand at about 15 feet bgs. No laboratory testing or evidence of sample collection was indicated on the boring log or Plot Plan.

Soil Strength from CPT Data

The Cone Penetrometer Test (CPT) closest to the building was CPT-5. The cone sounding and interpretation, attached, indicate sand layers from approximately 30 to 32 feet below ground surface (bgs) and from approximately 34 to 41 feet bgs. The intermediate soils are silts and clays. The undrained shear strength from the CPT averaged 1,000 to 3,000 psf.

Seismic Settlement

The previous evaluation of CPT-5 yielded seismically induced settlement of approximately 2.8 inches. The settlement primarily occurs in two regions; from 29 to 36 feet bgs and from 43 to 49 feet bgs. Therefore, for the shorter piles, less than about 30 feet in length, it should be assumed that they could experience over 2 inches of total seismic settlement. The deeper piles may experience less seismic settlement but would be subject to down drag forces.

Conclusions and Recommendations

Only one exploration point, CPT-5 was performed near the Assembly Building. The building is supported on single piles and in pile groups consisting of up to five piles. The soil conditions are suitable to support the existing static load and possibly some increased load. Since the option of three different pile types were provided with two different pile lengths, it would be useful to know which type of pile was used to support the column loads.

To evaluate differential settlement additional exploration and testing will be required. Otherwise, in general differential settlement is assumed to be one-half of the total settlement. This would yield differential seismic settlement on the order of 1.4 inches across about 40 feet.

If the soil were to settle as indicated by CPT-5, the down drag forces would be applied to the entire pile.

Further discussions regarding proposed retrofit / remediation should occur among the design consultants.

-oOo-

Please contact our office if you have questions regarding this report or require additional information.

Respectfully,

Gorian and Associates, Inc.

By: Sheryl N. Shatz, GE 2288
Senior Geotechnical Engineer

Jerome J. Blunck, GE 151
Principal Geotechnical Engineer

Attachments: CPT-5
Seismic settlement Potential

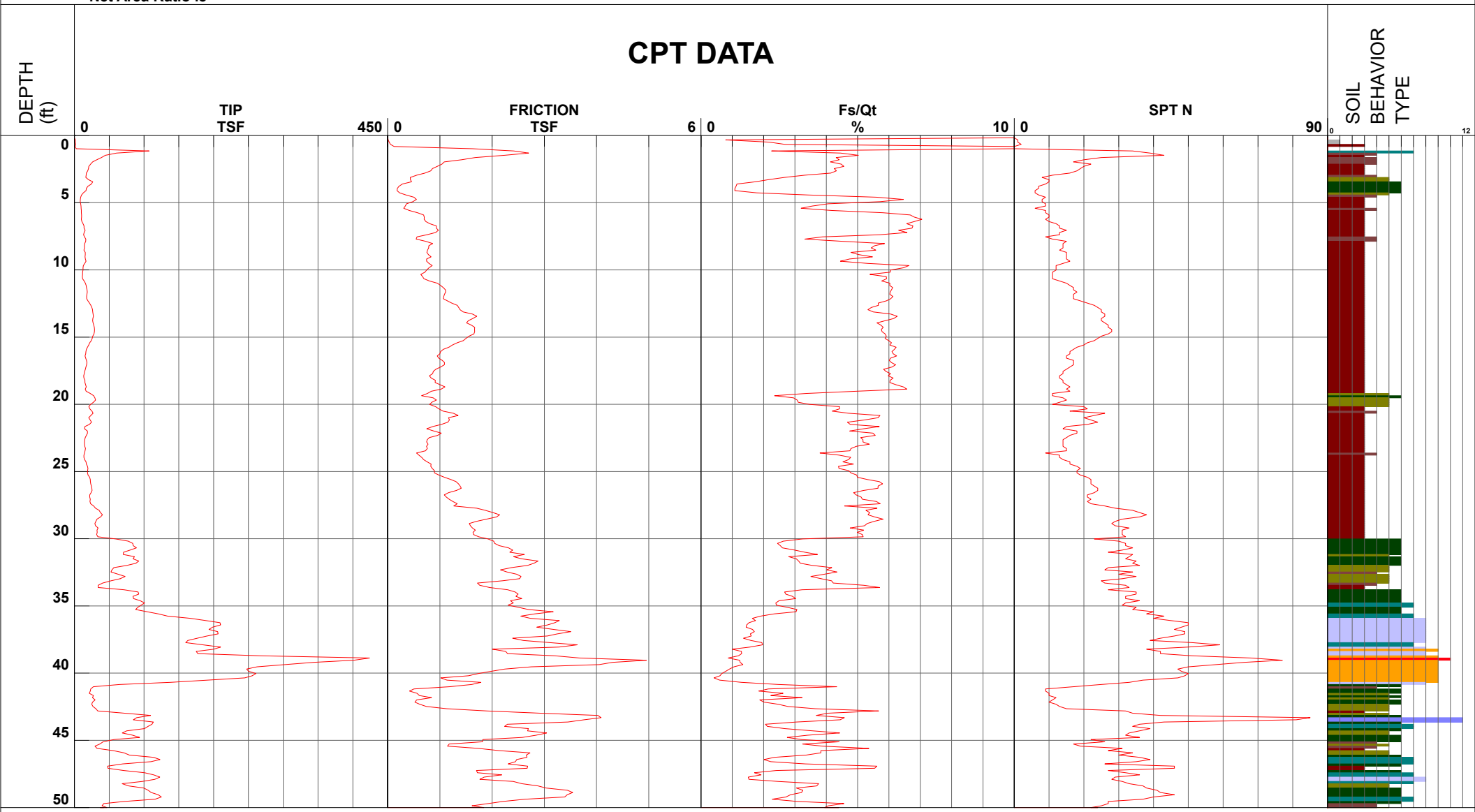
Distribution: Ms. Cristina Cho, via email

Gorian & Associates

Project	Reseda High School	Operator	RC-JM	Filename	SDF(709).cpt
Job Number	2880-62-0-100	Cone Number	DDG1350	GPS	
Hole Number	CPT-05	Date and Time	4/12/2017 7:09:57 AM	Maximum Depth	50.52 ft
EST GW Depth During Test		31.00 ft			

Net Area Ratio .8

CPT DATA



1 - sensitive fine grained
2 - organic material
3 - clay
4 - silty clay to clay
5 - clayey silt to silty clay
6 - sandy silt to clayey silt
7 - silty sand to sandy silt
8 - sand to silty sand
9 - sand
10 - gravelly sand to sand
11 - very stiff fine grained (*)
12 - sand to clayey sand (*)

Cone Size 10cm squared

S*Soil behavior type and SPT based on data from UBC-1983

Reseda High School

Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Ratio %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
0.33	1.4	-	1.4	0.0	0.0	0.8	1	sensitive fine SOIL	115	2.0	1	1	-	-	0.1	9.9	84	3.33	15	N/A	N/A
0.49	1.3	-	1.3	0.0	0.0	2.2	3	silty CLAY to CLAY	115	1.5	1	1	-	-	0.1	9.9	95	3.52	15	N/A	N/A
0.66	2.0	-	2.0	0.1	0.1	2.7	3	silty CLAY to CLAY	115	1.5	1	2	-	-	0.1	9.9	90	3.41	15	N/A	N/A
0.82	1.2	-	1.2	0.1	0.0	9.9	2	Organic SOILS - Peats	100	1.0	1	2	-	-	0.1	8.2	95	3.90	10	N/A	N/A
0.98	2.6	-	2.6	1.6	0.0	9.9	2	Organic SOILS - Peats	100	1.0	3	4	-	-	0.3	9.9	95	3.62	10	N/A	N/A
1.15	107.2	223.5	107.2	2.4	0.2	2.3	5	silty SAND to sandy SILT	120	3.0	36	57	85	48	-	-	13	2.00	16	N/A	N/A
1.31	60.6	219.3	60.6	2.7	0.3	4.5	9	very stiff fine SOIL	120	1.0	61	97	-	-	2.1	9.9	26	2.39	30	N/A	N/A
1.48	44.5	201.8	44.5	2.2	2.5	5.0	4	clayy SILT to silty CLAY	115	2.0	22	36	-	-	3.1	9.9	31	2.51	15	N/A	N/A
1.64	38.9	172.8	38.9	1.7	2.3	4.3	4	clayy SILT to silty CLAY	115	2.0	19	31	-	-	2.7	9.9	31	2.50	15	N/A	N/A
1.80	32.0	160.4	32.1	1.4	0.4	4.4	4	clayy SILT to silty CLAY	115	2.0	16	26	-	-	2.3	9.9	34	2.57	15	N/A	N/A
1.97	26.2	-	26.2	1.1	-0.9	4.2	4	clayy SILT to silty CLAY	115	2.0	13	21	-	-	1.8	9.9	36	2.61	15	N/A	N/A
2.13	23.2	-	23.2	1.0	-3.1	4.5	4	clayy SILT to silty CLAY	115	2.0	12	19	-	-	1.6	9.9	39	2.67	15	N/A	N/A
2.30	20.8	-	20.7	0.9	-3.9	4.6	3	silty CLAY to CLAY	115	1.5	14	22	-	-	1.5	9.9	41	2.71	15	N/A	N/A
2.46	20.1	-	20.0	0.9	-4.8	4.3	4	clayy SILT to silty CLAY	115	2.0	10	16	-	-	1.4	9.9	40	2.70	15	N/A	N/A
2.62	19.1	-	19.1	0.8	-0.8	4.4	3	silty CLAY to CLAY	115	1.5	13	20	-	-	1.3	9.9	42	2.72	15	N/A	N/A
2.79	17.2	-	17.2	0.7	-0.3	4.2	3	silty CLAY to CLAY	115	1.5	11	18	-	-	1.2	9.9	43	2.74	15	N/A	N/A
2.95	16.8	-	16.8	0.6	-0.2	3.3	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.2	9.9	40	2.69	15	N/A	N/A
3.12	16.3	-	16.3	0.4	0.1	2.7	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.1	9.9	37	2.64	15	N/A	N/A
3.28	20.2	90.7	20.2	0.4	0.1	2.2	4	clayy SILT to silty CLAY	115	2.0	10	16	-	-	1.4	9.9	31	2.51	15	N/A	N/A
3.45	26.4	90.6	26.4	0.5	0.1	1.7	5	silty SAND to sandy SILT	120	3.0	9	14	39	42	-	-	25	2.36	16	N/A	N/A
3.61	24.5	73.6	24.5	0.3	0.2	1.2	5	silty SAND to sandy SILT	120	3.0	8	13	36	41	-	-	22	2.28	16	N/A	N/A
3.77	19.4	66.6	19.4	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	10	28	40	-	-	25	2.36	16	N/A	N/A
3.94	17.2	63.0	17.2	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	9	24	39	-	-	26	2.39	16	N/A	N/A
4.10	16.7	62.4	16.7	0.2	0.2	1.1	5	silty SAND to sandy SILT	120	3.0	6	9	23	39	-	-	27	2.41	16	N/A	N/A
4.27	12.8	-	12.8	0.2	0.2	1.8	4	clayy SILT to silty CLAY	115	2.0	6	10	-	-	0.9	9.9	36	2.62	15	N/A	N/A
4.43	10.3	-	10.3	0.4	0.2	3.5	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.9	50	2.87	15	N/A	N/A
4.59	9.0	-	9.0	0.5	0.1	5.8	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	62	3.05	15	N/A	N/A
4.76	8.5	-	8.5	0.6	0.1	6.7	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.9	66	3.11	15	N/A	N/A
4.92	8.5	-	8.5	0.5	0.0	5.9	3	silty CLAY to CLAY	115	1.5	6	9	-	-	0.6	9.5	64	3.08	15	N/A	N/A
5.09	8.9	-	8.9	0.4	0.1	4.2	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.7	56	2.97	15	N/A	N/A
5.25	9.5	-	9.5	0.3	0.0	3.7	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.6	9.9	53	2.91	15	N/A	N/A
5.41	9.7	-	9.7	0.3	-0.1	3.3	3	silty CLAY to CLAY	115	1.5	6	10	-	-	0.7	9.9	51	2.88	15	N/A	N/A
5.58	9.9	-	9.9	0.4	0.0	4.3	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.8	55	2.94	15	N/A	N/A
5.74	9.8	-	9.8	0.6	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.5	61	3.04	15	N/A	N/A
5.91	10.3	-	10.3	0.7	-0.7	6.9	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.7	63	3.06	15	N/A	N/A
6.07	10.3	-	10.3	0.7	-0.6	7.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.4	63	3.07	15	N/A	N/A
6.23	9.9	-	9.9	0.7	-0.5	7.3	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	8.8	65	3.09	15	N/A	N/A
6.40	10.7	-	10.7	0.7	-0.7	7.0	3	silty CLAY to CLAY	115	1.5	7	11	-	-	0.7	9.3	62	3.06	15	N/A	N/A
6.56	12.3	-	12.3	0.8	-0.5	6.8	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	9.9	58	3.00	15	N/A	N/A
6.73	13.8	-	13.8	0.9	-0.6	7.0	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	9.9	57	2.97	15	N/A	N/A
6.89	13.8	-	13.8	0.9	-0.2	6.9	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	9.9	56	2.97	15	N/A	N/A
7.05	15.4	-	15.4	1.0	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.1	9.9	53	2.91	15	N/A	N/A
7.22	14.0	-	14.0	0.9	-1.1	6.8	3	silty CLAY to CLAY	115	1.5	9	15	-	-	1.0	9.9	56	2.96	15	N/A	N/A
7.38	13.2	-	13.2	0.8	-0.4	5.9	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	9.9	54	2.94	15	N/A	N/A
7.55	14.5	-	14.5	0.6	-0.2	4.0	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.9	46	2.79	15	N/A	N/A
7.71	16.5	-	16.5	0.5	-0.1	3.4	4	clayy SILT to silty CLAY	115	2.0	8	13	-	-	1.1	9.9	41	2.70	15	N/A	N/A
7.87	16.1	-	16.1	0.7	-0.1	4.6	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.9	46	2.80	15	N/A	N/A
8.04	14.7	-	14.7	0.9	-0.8	6.0	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	9.9	53	2.91	15	N/A	N/A
8.20	14.3	-	14.3	0.8	-0.3	5.7	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.6	52	2.90	15	N/A	N/A
8.37	14.4	-	14.4	0.8	-0.4	5.6	3	silty CLAY to CLAY	115	1.5	10	15	-	-	1.0	9.6	52	2.89	15	N/A	N/A
8.53	13.7	-	13.7	0.8	-0.4	5.8	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	8.9	53	2.92	15	N/A	N/A
8.69	15.7	-	15.7	0.8	-0.3	4.9	3	silty CLAY to CLAY	115	1.5	10	17	-	-	1.1	9.9	48	2.83	15	N/A	N/A
8.86	15.5	-	15.5	0.8	-0.4	5.2	3	silty CLAY to CLAY	115	1.5	10	17	-	-	1.1	9.7	49	2.85	15	N/A	N/A
9.02	15.2	-	15.2	0.8	-0.2	5.7	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	9.3	51	2.88	15	N/A	N/A
9.19	15.8	-	15.7	0.7	-0.4	4.9	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	9.5	48	2.83	15	N/A	N/A
9.35	16.7	-	16.7	0.7	-0.1	4.6	3	silty CLAY to CLAY	115	1.5	11	18	-	-	1.1	9.9	45	2.79	15	N/A	N/A
9.51	14.9	-	14.8	0.8	-0.2	5.5	3	silty CLAY to CLAY	115	1.5	10	16	-	-	1.0	8.6	51	2.88	15	N/A	N/A
9.68	12.9	-	12.9	0.9	-0.5	6.9	3	silty CLAY to CLAY	115	1.5	9	14	-	-	0.9	7.3	58	3.00	15	N/A	N/A
9.84	12.3	-	12.3	0.8	-0.5	6.8	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.8	59	3.01	15	N/A	N/A
10.01	12.4	-	12.3	0.7	-1.0	6.3	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.8	57	2.98	15	N/A	N/A
10.17	11.8	-	11.8	0.7	-1.3	6.4	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.3	58	3.00	15	N/A	N/A
10.34	11.8	-	11.8	0.6	-1.1	5.7	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.2	56	2.97	15	N/A	N/A
10.50	11.3	-	11.3	0.7	-2.0	6.2	3	silty CLAY to CLAY	115	1.5	8	12	-	-	0.8	5.8	59	3.01	15	N/A	N/A
10.66	11.7	-	11.7	0.7	-1.8	6.3	3	silty CLAY to CLAY	115	1.5	8	13	-	-	0.8	6.0	58	3.00	15	N/A	N/A
10.83	13.8	-	13.8	0.8	-1.5	6.0	3	silty CLAY to CLAY	115	1.5	9	15	-	-	0.9	7.0	54	2.93	15	N/A	N/A
10.99	15.8	-	15.8	1.0	-1.5	6.3	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	7.9	52	2.91	15	N/A	N/A
11.16	16.8	-	16.8	1.0	-1.4	6.3	3	silty CLAY to CLAY	115	1.5	11	17	-	-	1.1	8.3	51	2.89	15	N/A	N/A
11.32	17.4	-	17.4	1.1	-1.5	6.4	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.5	51	2.89	15	N/A	N/A
11.48	18.2	-	18.2	1.1	-1.5	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.8	50	2.88	15	N/A	N/A
11.65	18.4	-	18.4	1.1	-1.4	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.3	8.7	50	2.87	15	N/A	N/A
11.81	18.1	-	18.1	1.1	-1.3	6.3	3	silty CLAY to CLAY	115	1.5	12	18	-	-	1.2	8.4	51	2.88	15	N/A	N/A
11.98	17.5	-	17.5	1.1	-1.3	6.4	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.1	52	2.90	15	N/A	N/A
12.14	17.6	-	17.6	1.1	-1.3	6.3	3	silty CLAY to CLAY	115	1.5	12	17	-	-	1.2	8.0	52	2.90	15	N/A	N/A
12.30	19.3	-	19.3	1.1	-1.2	6.1	3	silty CLAY to CLAY	115	1.5	13	18	-	-	1.3	8.7	50	2.87	15	N/A	N/A
12.47	21.7	-	21.7	1.2	-1.1	5.8	3	silty CLAY to CLAY	115	1.5	14	20	-	-	1.5	9.7	47	2.82	15	N/A	N/A
12.63	23.5	-	23.5	1.3	-0.9	5.8	3	silty CLAY to CLAY	115	1.5	16	22	-	-	1.6	9.9	46	2.80	15	N/A	N/A
12.80	25.0	-	25.0	1.4	-0.8	5.6	3	silty CLAY to CLAY	115	1.5	17	23	-	-	1.7	9.9	44	2.77	15	N/A	N/A
12.96	26.0	-	26.0	1.4	-0.7	5.5	3	silty CLAY to CLAY	115	1.5	17	23	-	-	1.8	9.9	44	2.76	15	N/A	N/A
13.12	26.3	-	26.3	1.4	-0.7	5.7	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	44	2.77	15	N/A	N/A
13.29	26.8	-	26.8	1.6	-0.7	6.2	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	46	2.80	15	N/A	N/A
13.45	27.2	-	27.2	1.7	-0.7	6.4	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.9	9.9	46	2.80	15	N/A	N/A
13.62	26.5	-	26.5	1.6	-0.7	6.3	3	silty CLAY to CLAY	115	1.5	18	23	-	-	1.8	9.9	47	2.81	15	N/A	N/A
13.78	26.3	-	26.2	1.5	-0.6	6.1	3	silty CLAY to CLAY	115	1.5	18	22	-	-	1.8	9.9	46	2.81	15	N/A	N/A
13.94	26.9	-	26.9	1.5	-0.5	5.8	3	silty CLAY to CLAY	115	1.5	18	22	-	-	1.8	9.9	45	2.79	15	N/A	N/A
14.11	27.9	-	27.9	1.6	-0.5	5.9	3	silty CLAY to CLAY	115	1.5	19	23	-	-	1.9	9.9	45	2.79	15	N/A	N/A
14.27	28.6	-	28.6	1.7	-0.4	6.0	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.78	15	N/A	N/A
14.44	28.9	-	28.9	1.7	-0.3	5.9	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.78	15	N/A	N/A
14.60	28.8	-	28.8	1.7	-0.3	6.0	3	silty CLAY to CLAY	115	1.5	19	23	-	-	2.0	9.9	45	2.79	15	N/A	N/A
14.76	28.1	-	28.1	1.7	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	19	22	-	-	1.9	9.9	46	2.80	15	N/A	N/A
14.93	26.3	-	26.3	1.6	-0.2	6.1	3	silty CLAY to CLAY	115	1.5	18	20	-	-	1.8	9.8	48	2.83	15	N/A	N/A
15.09	25.5	-	25.5	1.5	0.0	6.1	3	silty CLAY to CLAY	115	1.5	17	20	-	-	1.7	9.4	49	2.84	15	N/A	N/A
15.26	24.2	-	24.2	1.4	-0.1	6.2	3	silty CLAY to CLAY	115	1.5	16	18	-	-	1.6	8.8	50	2.87	15	N/A	N/A
15.42	21.9	-	21.9	1.3	0.0	6.3	3	silty CLAY to CLAY	115	1.5	15	16	-	-	1.5	7.8	53	2.91	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
15.58	20.6	-	20.6	1.2	-0.1	6.3	3	silty CLAY to CLAY	115	1.5	14	15	-	-	1.4	7.3	54	2.93	15	N/A	N/A
15.75	18.8	-	18.8	1.2	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	13	14	-	-	1.3	6.5	57	2.98	15	N/A	N/A
15.91	17.2	-	17.2	1.1	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	11	13	-	-	1.2	5.9	59	3.01	15	N/A	N/A
16.08	16.6	-	16.6	1.0	-0.2	6.5	3	silty CLAY to CLAY	115	1.5	11	12	-	-	1.1	5.6	60	3.02	15	N/A	N/A
16.24	16.3	-	16.2	1.0	-0.4	6.5	3	silty CLAY to CLAY	115	1.5	11	12	-	-	1.1	5.4	61	3.04	15	N/A	N/A
16.40	15.2	-	15.2	0.9	-0.2	6.7	3	silty CLAY to CLAY	115	1.5	10	11	-	-	1.0	5.0	63	3.07	15	N/A	N/A
16.57	16.2	-	16.2	1.0	-0.1	6.4	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.3	61	3.04	15	N/A	N/A
16.73	17.4	-	17.4	1.0	-0.2	6.4	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.6	60	3.02	15	N/A	N/A
16.90	17.9	-	17.9	1.1	-0.1	6.4	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.7	59	3.01	15	N/A	N/A
17.06	17.5	-	17.4	1.1	-1.6	6.6	3	silty CLAY to CLAY	115	1.5	12	12	-	-	1.2	5.5	61	3.03	15	N/A	N/A
17.23	16.6	-	16.6	1.0	-1.4	6.5	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	5.2	62	3.05	15	N/A	N/A
17.39	15.8	-	15.8	0.9	-1.3	6.2	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.0	4.9	62	3.06	15	N/A	N/A
17.55	14.8	-	14.8	0.9	-1.2	6.3	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.5	65	3.09	15	N/A	N/A
17.72	14.2	-	14.2	0.9	-1.3	6.5	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.3	66	3.11	15	N/A	N/A
17.88	13.4	-	13.4	0.8	-1.2	6.5	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.0	68	3.14	15	N/A	N/A
18.05	13.6	-	13.6	0.8	-1.3	6.6	3	silty CLAY to CLAY	115	1.5	9	9	-	-	0.9	4.0	69	3.14	15	N/A	N/A
18.21	15.1	-	15.1	0.9	-1.3	6.5	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	66	3.10	15	N/A	N/A
18.37	15.1	-	15.1	0.9	-1.5	6.5	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	66	3.10	15	N/A	N/A
18.54	16.1	-	16.1	1.0	-1.6	6.7	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.7	65	3.09	15	N/A	N/A
18.70	17.0	-	16.9	1.1	-1.9	6.9	3	silty CLAY to CLAY	115	1.5	11	11	-	-	1.1	4.9	65	3.09	15	N/A	N/A
18.87	15.6	-	15.5	1.0	-1.8	7.1	3	silty CLAY to CLAY	115	1.5	10	10	-	-	1.0	4.4	67	3.13	15	N/A	N/A
19.03	16.9	-	16.8	0.8	-3.2	5.3	3	silty CLAY to CLAY	115	1.5	11	10	-	-	1.1	4.8	60	3.02	15	N/A	N/A
19.19	22.7	-	22.7	0.8	-0.5	3.5	3	silty CLAY to CLAY	115	1.5	15	14	-	-	1.5	6.5	46	2.80	15	N/A	N/A
19.36	27.7	-	27.7	0.7	-0.3	2.4	4	clayy SILT to silty CLAY	115	2.0	14	12	-	-	1.9	7.9	37	2.64	15	N/A	N/A
19.52	29.5	-	29.5	0.9	-0.3	3.1	4	clayy SILT to silty CLAY	115	2.0	15	13	-	-	2.0	8.3	39	2.68	15	N/A	N/A
19.69	30.4	-	30.3	0.9	-0.5	3.2	4	clayy SILT to silty CLAY	115	2.0	15	13	-	-	2.1	8.5	40	2.68	15	N/A	N/A
19.85	27.2	-	27.2	0.8	-0.7	3.2	4	clayy SILT to silty CLAY	115	2.0	14	12	-	-	1.8	7.5	42	2.73	15	N/A	N/A
20.01	23.1	-	23.1	0.8	-0.2	3.7	3	silty CLAY to CLAY	115	1.5	15	13	-	-	1.6	6.3	47	2.82	15	N/A	N/A
20.18	20.7	-	20.7	0.9	-0.2	4.7	3	silty CLAY to CLAY	115	1.5	14	12	-	-	1.4	5.6	54	2.93	15	N/A	N/A
20.34	22.2	-	22.2	1.0	-0.3	4.7	3	silty CLAY to CLAY	115	1.5	15	13	-	-	1.5	5.9	53	2.91	15	N/A	N/A
20.51	25.3	-	25.3	1.1	-0.5	4.4	3	silty CLAY to CLAY	115	1.5	17	14	-	-	1.7	6.8	49	2.85	15	N/A	N/A
20.67	26.7	-	26.7	1.3	-0.8	4.9	3	silty CLAY to CLAY	115	1.5	18	15	-	-	1.8	7.1	50	2.87	15	N/A	N/A
20.83	23.6	-	23.6	1.3	-0.9	6.0	3	silty CLAY to CLAY	115	1.5	16	13	-	-	1.6	6.2	57	2.97	15	N/A	N/A
21.00	20.6	-	20.6	1.2	-0.5	6.0	3	silty CLAY to CLAY	115	1.5	14	11	-	-	1.4	5.3	60	3.02	15	N/A	N/A
21.16	22.6	-	22.6	1.2	-0.2	5.5	3	silty CLAY to CLAY	115	1.5	15	12	-	-	1.5	5.8	56	2.97	15	N/A	N/A
21.33	24.6	-	24.6	1.2	-0.8	4.9	3	silty CLAY to CLAY	115	1.5	16	13	-	-	1.7	6.3	52	2.91	15	N/A	N/A
21.49	21.6	-	21.6	1.0	-1.0	5.1	3	silty CLAY to CLAY	115	1.5	14	12	-	-	1.4	5.4	56	2.96	15	N/A	N/A
21.65	15.2	-	15.2	0.9	-1.3	6.2	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	69	3.15	15	N/A	N/A
21.82	14.4	-	14.4	0.7	-1.1	5.7	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.5	69	3.15	15	N/A	N/A
21.98	18.6	-	18.6	0.9	-0.9	5.1	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.5	60	3.03	15	N/A	N/A
22.15	18.7	-	18.7	1.0	-2.3	5.9	3	silty CLAY to CLAY	115	1.5	12	10	-	-	1.2	4.5	63	3.07	15	N/A	N/A
22.31	17.2	-	17.2	1.0	-1.9	6.0	3	silty CLAY to CLAY	115	1.5	11	9	-	-	1.1	4.1	66	3.11	15	N/A	N/A
22.47	15.6	-	15.6	0.8	-1.7	5.6	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.7	67	3.12	15	N/A	N/A
22.64	14.7	-	14.6	0.8	-1.6	5.7	3	silty CLAY to CLAY	115	1.5	10	8	-	-	0.9	3.4	69	3.15	15	N/A	N/A
22.80	14.4	-	14.4	0.7	-1.7	5.7	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.3	70	3.16	15	N/A	N/A
22.97	14.4	-	14.4	0.8	-1.7	5.9	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.3	71	3.18	15	N/A	N/A
23.13	15.0	-	15.0	0.7	-1.6	5.4	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.4	69	3.14	15	N/A	N/A
23.30	15.9	-	15.9	0.8	-1.4	5.2	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.0	3.6	66	3.11	15	N/A	N/A
23.46	15.2	-	15.2	0.7	-1.3	5.2	3	silty CLAY to CLAY	115	1.5	10	8	-	-	1.0	3.4	68	3.13	15	N/A	N/A
23.62	14.6	-	14.6	0.6	-1.1	4.2	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.2	65	3.09	15	N/A	N/A
23.79	13.6	-	13.6	0.6	-1.1	4.9	3	silty CLAY to CLAY	115	1.5	9	7	-	-	0.9	2.9	70	3.16	15	N/A	N/A
23.95	13.7	-	13.6	0.7	-1.2	5.3	3	silty CLAY to CLAY	115	1.5	9	7	-	-	0.9	2.9	72	3.18	15	N/A	N/A
24.12	14.6	-	14.6	0.7	-1.2	5.2	3	silty CLAY to CLAY	115	1.5	10	7	-	-	0.9	3.1	70	3.15	15	N/A	N/A
24.28	16.7	-	16.7	0.8	-1.1	4.9	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.6	65	3.09	15	N/A	N/A
24.44	17.1	-	17.1	0.8	-0.9	5.3	3	silty CLAY to CLAY	115	1.5	11	8	-	-	1.1	3.7	66	3.11	15	N/A	N/A
24.61	18.8	-	18.8	0.8	-0.8	4.7	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	62	3.04	15	N/A	N/A
24.77	19.4	-	19.4	0.9	-0.2	4.8	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.2	61	3.04	15	N/A	N/A
24.94	19.0	-	19.0	0.9	0.0	5.1	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	63	3.06	15	N/A	N/A
25.10	18.8	-	18.7	0.9	-0.7	5.2	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.2	4.0	64	3.08	15	N/A	N/A
25.26	19.7	-	19.7	1.0	-0.7	5.4	3	silty CLAY to CLAY	115	1.5	13	9	-	-	1.3	4.1	63	3.07	15	N/A	N/A
25.43	21.8	-	21.7	1.1	-0.9	5.4	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.4	4.6	61	3.04	15	N/A	N/A
25.59	22.8	-	22.8	1.2	-0.9	5.7	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.8	61	3.04	15	N/A	N/A
25.76	23.0	-	22.9	1.3	-3.1	6.1	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.8	62	3.06	15	N/A	N/A
25.92	23.4	-	23.4	1.4	-1.6	6.2	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.5	4.9	62	3.06	15	N/A	N/A
26.08	24.5	-	24.5	1.4	-1.4	6.0	3	silty CLAY to CLAY	115	1.5	16	11	-	-	1.6	5.1	61	3.04	15	N/A	N/A
26.25	25.0	-	24.9	1.4	-1.4	6.0	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.1	61	3.03	15	N/A	N/A
26.41	25.4	-	25.4	1.3	-1.5	5.5	3	silty CLAY to CLAY	115	1.5	17	11	-	-	1.7	5.2	59	3.00	15	N/A	N/A
26.58	23.9	-	23.9	1.2	-1.5	5.2	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.6	4.8	59	3.01	15	N/A	N/A
26.74	21.9	-	21.8	1.1	-3.3	5.3	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.4	4.4	62	3.05	15	N/A	N/A
26.90	22.0	-	21.9	1.1	-5.3	5.5	3	silty CLAY to CLAY	115	1.5	15	9	-	-	1.4	4.4	63	3.06	15	N/A	N/A
27.07	22.9	-	22.8	1.2	-4.5	5.5	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.5	62	3.05	15	N/A	N/A
27.23	22.3	-	22.3	1.3	-4.1	6.0	3	silty CLAY to CLAY	115	1.5	15	10	-	-	1.5	4.4	64	3.08	15	N/A	N/A
27.40	23.3	-	23.2	1.3	-3.8	6.1	3	silty CLAY to CLAY	115	1.5	16	10	-	-	1.5	4.5	64	3.08	15	N/A	N/A
27.56	27.6	-	27.5	1.3	-3.5	4.9	3	silty CLAY to CLAY	115	1.5	18	12	-	-	1.8	5.4	55	2.95	15	N/A	N/A
27.72	30.3	-	30.2	1.7	-4.7	5.9	3	silty CLAY to CLAY	115	1.5	20	13	-	-	2.0	5.9	57	2.98	15	N/A	N/A
27.89	35.5	-	35.4	1.9	-4.5	5.5	3	silty CLAY to CLAY	115	1.5	24	15	-	-	2.4	7.0	52	2.91	15	N/A	N/A
28.05	37.4	-	37.4	2.0	-3.9	5.6	3	silty CLAY to CLAY	115	1.5	25	15	-	-	2.5	7.3	52	2.90	15	N/A	N/A
28.22	40.2	-	40.1	2.1	-3.6	5.6	3	silty CLAY to CLAY	115	1.5	27	17	-	-	2.7	7.8	50	2.87	15	N/A	N/A
28.38	37.6	-	37.6	2.1	-3.6	5.8	3	silty CLAY to CLAY	115	1.5	25	15	-	-	2.5	7.3	52	2.91	15	N/A	N/A
28.54	32.6	-	32.5	1.9	-3.5	6.1	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.2	57	2.97	15	N/A	N/A
28.71	30.8	-	30.7	1.7	-3.3	5.8	3	silty CLAY to CLAY	115	1.5	21	12	-	-	2.1	5.8	57	2.98	15	N/A	N/A
28.87	29.5	-	29.4	1.6	-3.2	5.6	3	silty CLAY to CLAY	115	1.5	20	12	-	-	2.0	5.5	58	2.99	15	N/A	N/A
29.04	30.4	-	30.3	1.6	-3.0	5.5	3	silty CLAY to CLAY	115	1.5	20	12	-	-	2.0	5.7	57	2.97	15	N/A	N/A
29.20	34.1	-	34.0	1.6	-2.9	5.0	3	silty CLAY to CLAY	115	1.5	23	14	-	-	2.3	6.4	53	2.91	15	N/A	N/A
29.36	32.3	-	32.3	1.7	-2.8	5.5	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.0	55	2.95	15	N/A	N/A
29.53	32.8	-	32.7	1.6	-2.7	5.3	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.2	6.0	54	2.94	15	N/A	N/A
29.69	32.0	-	31.9	1.6	-2.6	5.4	3	silty CLAY to CLAY	115	1.5	21	12	-	-	2.1	5.8	56	2.96	15	N/A	N/A
29.86	33.7	-	33.6	1.7	-2.4	5.5	3	silty CLAY to CLAY	115	1.5	22	13	-	-	2.3	6.1	55	2.94	15	N/A	N/A
30.02	59.2	-	59.1	1.9	-2.4	3.3	4	clayy SILT to silty CLAY	115	2.0	30	17	-	-	4.1	9.9	36	2.61	15	N/A	N/A
30.19	77.3	128.6	77.2	2.0	-4.4	2.7	5	silty SAND to sandy SILT	120	3.0	26	19	48	36	-	-	26	2.39	16	N/A	N/A
30.35	83.8	128.1	83.7	2.0	-5.9	2.5	5	silty SAND to sandy SILT	120	3.0	28	21	51	36	-	-	24	2.34	16	N/A	N/A
30.51	84.3	130.7	84.2	2.1	-6.3	2.6	5	silty SAND to sandy SILT	120	3.0	28	21	51	36	-	-	24	2.35	16	N/A	N/A
30.68	89.0	135.5	88.9	2.3	-6.5	2.7	5	silty SAND to sandy SILT	120	3.0	30	22	53	37	-	-	24	2.34	16	N/A	N/A
30.84	80.0	139.2	79.9	2.4	-7.0	3.1	4	clayy SILT to silty CLAY	115	2.0	40	29	-	-	5.5	9.9	27	2.42	15	N/A	N/A

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR -	Fin Ic %	Ic SBT Indx	Nk -	Vol Strn %	Cycl SStn %
31.01	70.6	139.7	70.5	2.3	-7.4	3.4	4	clayy SILT to silty CLAY	115	2.0	35	26	-	-	4.9	9.9	30	2.49	15	0.29	0.9
31.17	70.3	-	70.1	2.6	-7.5	3.8	4	clayy SILT to silty CLAY	115	2.0	35	20	-	-	4.8	9.9	36	2.61	15	-	-
31.33	86.1	138.5	85.9	2.4	-8.0	2.9	5	silty SAND to sandy SILT	120	3.0	29	21	52	36	-	-	25	2.38	16	0.34	1.5
31.50	84.3	143.5	84.1	2.6	-8.5	3.1	4	clayy SILT to silty CLAY	115	2.0	42	31	-	-	5.8	9.9	27	2.41	15	0.24	0.9
31.66	92.4	151.4	92.3	2.9	-9.1	3.2	4	clayy SILT to silty CLAY	115	2.0	46	33	-	-	6.4	9.9	26	2.39	15	0.17	0.5
31.83	88.2	149.7	88.1	2.8	-9.9	3.2	4	clayy SILT to silty CLAY	115	2.0	44	32	-	-	6.1	9.9	27	2.41	15	0.18	0.5
31.99	75.5	149.0	75.3	2.7	-10.2	3.6	4	clayy SILT to silty CLAY	115	2.0	38	27	-	-	5.2	9.9	30	2.49	15	0.18	0.4
32.15	56.7	-	56.5	2.4	-10.3	4.3	4	clayy SILT to silty CLAY	115	2.0	28	16	-	-	3.9	9.9	42	2.72	15	-	-
32.32	53.9	-	53.7	2.2	-10.4	4.2	4	clayy SILT to silty CLAY	115	2.0	27	15	-	-	3.7	9.5	42	2.73	15	-	-
32.48	52.6	-	52.4	2.3	-10.4	4.5	3	silty CLAY to CLAY	115	1.5	35	19	-	-	3.6	9.2	44	2.76	15	-	-
32.65	62.8	-	62.6	2.5	-10.5	4.1	4	clayy SILT to silty CLAY	115	2.0	31	17	-	-	4.3	9.9	39	2.67	15	-	-
32.81	72.9	145.5	72.7	2.6	-10.7	3.6	4	clayy SILT to silty CLAY	115	2.0	36	26	-	-	5.0	9.9	31	2.50	15	0.21	0.5
32.97	65.8	-	65.6	2.5	-10.7	3.9	4	clayy SILT to silty CLAY	115	2.0	33	18	-	-	4.5	9.9	38	2.65	15	-	-
33.14	52.6	-	52.4	2.2	-10.8	4.3	3	silty CLAY to CLAY	115	1.5	35	19	-	-	3.6	9.1	43	2.75	15	-	-
33.30	40.7	-	40.5	1.7	-10.7	4.4	3	silty CLAY to CLAY	115	1.5	27	15	-	-	2.7	7.0	49	2.84	15	-	-
33.47	33.9	-	33.7	1.8	-10.7	5.5	3	silty CLAY to CLAY	115	1.5	23	12	-	-	2.3	5.7	57	2.97	15	-	-
33.63	34.2	-	34.0	2.0	-10.6	6.0	3	silty CLAY to CLAY	115	1.5	23	12	-	-	2.3	5.8	58	2.99	15	-	-
33.79	71.2	137.3	71.0	2.3	-10.6	3.3	4	clayy SILT to silty CLAY	115	2.0	36	25	-	-	4.9	9.9	30	2.49	15	0.38	1.4
33.96	91.5	137.7	91.2	2.4	-10.7	2.7	5	silty SAND to sandy SILT	120	3.0	30	22	53	36	-	-	24	2.35	16	0.41	1.9
34.12	92.4	139.3	92.2	2.5	-11.1	2.8	5	silty SAND to sandy SILT	120	3.0	31	22	53	37	-	-	24	2.35	16	0.37	1.7
34.29	84.1	139.2	83.9	2.5	-11.1	3.0	4	clayy SILT to silty CLAY	115	2.0	42	30	-	-	5.8	9.9	27	2.40	15	0.36	1.6
34.45	84.9	142.4	84.7	2.6	-11.1	3.1	4	clayy SILT to silty CLAY	115	2.0	42	30	-	-	5.9	9.9	27	2.41	15	0.29	1.2
34.61	94.4	134.6	94.2	2.4	-11.3	2.5	5	silty SAND to sandy SILT	120	3.0	31	22	54	37	-	-	23	2.32	16	0.52	2.7
34.78	100.8	135.8	100.6	2.4	-11.7	2.4	5	silty SAND to sandy SILT	120	3.0	34	24	56	37	-	-	22	2.29	16	0.49	2.6
34.94	96.0	133.1	95.7	2.3	-11.8	2.5	5	silty SAND to sandy SILT	120	3.0	32	23	54	37	-	-	23	2.30	16	0.60	3.2
35.11	91.0	139.2	90.8	2.5	-11.9	2.8	5	silty SAND to sandy SILT	120	3.0	30	21	52	36	-	-	25	2.36	16	0.38	1.8
35.27	88.0	145.2	87.8	2.7	-12.2	3.1	4	clayy SILT to silty CLAY	115	2.0	44	31	-	-	6.1	9.9	27	2.41	15	0.25	1.0
35.43	104.5	156.1	104.2	3.2	-12.2	3.1	5	silty SAND to sandy SILT	120	3.0	35	25	57	37	-	-	24	2.35	16	0.16	0.5
35.60	120.5	146.6	120.3	2.8	-12.3	2.4	5	silty SAND to sandy SILT	120	3.0	40	28	62	38	-	-	20	2.22	16	0.26	1.4
35.76	133.9	141.9	133.7	2.5	-12.4	1.9	5	silty SAND to sandy SILT	120	3.0	45	31	65	39	-	-	17	2.13	16	0.38	2.0
35.93	166.8	154.3	166.5	2.7	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	33	23	72	40	-	-	13	2.01	16	0.19	1.4
36.09	189.0	171.2	188.7	3.3	-12.5	1.8	6	clean SAND to silty SAND	125	5.0	38	27	76	40	-	-	13	1.99	16	0.00	0.0
36.26	209.1	177.4	208.9	3.2	-12.6	1.5	6	clean SAND to silty SAND	125	5.0	42	29	80	41	-	-	11	1.92	16	0.00	0.0
36.42	210.1	175.6	209.8	3.1	-12.6	1.5	6	clean SAND to silty SAND	125	5.0	42	29	80	41	-	-	11	1.91	16	0.00	0.0
36.58	198.6	167.6	198.3	2.9	-12.5	1.5	6	clean SAND to silty SAND	125	5.0	40	28	78	41	-	-	11	1.92	16	0.00	0.0
36.75	193.3	170.4	193.0	3.2	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	39	27	77	40	-	-	12	1.97	16	0.00	0.0
36.91	205.8	180.0	205.6	3.5	-12.5	1.7	6	clean SAND to silty SAND	125	5.0	41	29	79	41	-	-	12	1.96	16	0.00	0.0
37.08	206.4	176.2	206.2	3.2	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	41	29	79	41	-	-	11	1.94	16	0.00	0.0
37.24	190.5	167.0	190.2	3.1	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	38	26	76	40	-	-	12	1.97	16	0.00	0.0
37.40	176.5	150.7	176.2	2.4	-12.5	1.4	6	clean SAND to silty SAND	125	5.0	35	24	74	40	-	-	11	1.94	16	0.24	1.7
37.57	163.0	149.2	162.7	2.6	-12.5	1.6	6	clean SAND to silty SAND	125	5.0	33	23	71	39	-	-	13	2.02	16	0.26	1.7
37.73	159.9	157.8	159.7	3.1	-11.7	2.0	5	silty SAND to sandy SILT	120	3.0	53	37	70	39	-	-	15	2.08	16	0.17	1.1
37.90	184.6	174.0	184.4	3.6	-12.1	2.0	5	silty SAND to sandy SILT	120	3.0	62	43	75	40	-	-	14	2.04	16	0.00	0.0
38.06	210.1	177.2	209.8	3.3	-12.4	1.6	6	clean SAND to silty SAND	125	5.0	42	29	79	41	-	-	11	1.93	16	0.00	0.0
38.22	200.1	153.9	199.8	2.0	-12.6	1.0	6	clean SAND to silty SAND	125	5.0	40	28	78	41	-	-	8	1.81	16	0.21	1.7
38.39	175.0	147.0	174.7	2.3	-12.5	1.3	6	clean SAND to silty SAND	125	5.0	35	24	73	40	-	-	11	1.93	16	0.32	2.0
38.55	177.4	148.5	177.1	2.3	-12.4	1.3	6	clean SAND to silty SAND	125	5.0	35	24	74	40	-	-	11	1.93	16	0.29	1.9
38.72	266.6	199.9	266.4	3.2	-12.7	1.2	6	clean SAND to silty SAND	125	5.0	53	37	87	42	-	-	8	1.78	16	0.00	0.0
38.88	423.9	290.8	423.7	3.7	-12.9	0.9	6	clean SAND to silty SAND	125	5.0	85	58	95	44	-	-	5	1.54	16	0.00	0.0
39.04	401.4	280.1	401.2	5.0	-11.8	1.2	6	clean SAND to silty SAND	125	5.0	80	55	95	44	-	-	6	1.67	16	0.00	0.0
39.21	343.6	247.1	343.3	4.3	-12.9	1.3	6	clean SAND to silty SAND	125	5.0	69	47	95	43	-	-	6	1.72	16	0.00	0.0
39.37	302.6	225.7	302.4	4.1	-12.6	1.3	6	clean SAND to silty SAND	125	5.0	61	41	91	43	-	-	8	1.78	16	0.00	0.0
39.54	262.3	191.0	262.1	2.7	-12.1	1.1	6	clean SAND to silty SAND	125	5.0	52	36	86	42	-	-	7	1.74	16	0.00	0.0
39.70	247.4	177.0	247.1	2.2	-12.0	0.9	6	clean SAND to silty SAND	125	5.0	49	34	84	42	-	-	6	1.72	16	0.00	0.0
39.86	250.3	173.9	250.1	2.0	-12.0	0.8	6	clean SAND to silty SAND	125	5.0	50	34	85	42	-	-	6	1.67	16	0.00	0.0
40.03	260.7	177.2	260.4	1.7	-12.0	0.7	6	clean SAND to silty SAND	125	5.0	52	35	86	42	-	-	5	1.61	16	0.00	0.0
40.19	255.4	173.4	255.1	1.5	-12.0	0.6	6	clean SAND to silty SAND	125	5.0	51	35	85	42	-	-	5	1.59	16	0.00	0.0
40.36	244.7	165.9	244.4	1.0	-12.1	0.4	6	clean SAND to silty SAND	125	5.0	49	33	84	41	-	-	5	1.51	16	0.00	0.0
40.52	191.3	133.6	191.1	1.1	-11.7	0.6	6	clean SAND to silty SAND	125	5.0	38	26	76	40	-	-	6	1.69	16	0.91	3.8
40.68	137.5	123.2	137.3	1.8	-11.4	1.3	6	clean SAND to silty SAND	125	5.0	28	19	65	38	-	-	13	2.02	16	1.45	7.5
40.85	65.2	113.2	64.9	1.6	-11.1	2.6	5	silty SAND to sandy SILT	120	3.0	22	15	40	34	-	-	29	2.46	16	1.89	51.2
41.01	27.3	-	27.2	1.2	-8.9	4.7	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	4.0	62	3.05	15	-	-
41.18	23.4	-	23.3	0.5	-8.4	2.4	3	silty CLAY to CLAY	115	1.5	16	8	-	-	1.5	3.3	54	2.94	15	-	-
41.34	22.7	-	22.5	0.4	-8.2	2.1	3	silty CLAY to CLAY	115	1.5	15	7	-	-	1.5	3.2	53	2.92	15	-	-
41.50	21.5	-	21.3	0.6	-8.1	3.0	3	silty CLAY to CLAY	115	1.5	14	7	-	-	1.4	3.0	60	3.03	15	-	-
41.67	27.3	-	27.1	0.6	-8.0	2.4	3	silty CLAY to CLAY	115	1.5	18	9	-	-	1.8	3.9	51	2.88	15	-	-
41.83	26.0	-	25.9	0.8	-7.9	3.6	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.7	3.7	58	3.00	15	-	-
42.00	29.7	-	29.6	0.6	-7.6	2.0	4	clayy SILT to silty CLAY	115	2.0	15	7	-	-	2.0	4.3	47	2.81	15	-	-
42.16	25.9	-	25.8	0.5	-7.5	2.2	4	clayy SILT to silty CLAY	115	2.0	13	6	-	-	1.7	3.7	51	2.88	15	-	-
42.32	24.9	-	24.8	0.6	-7.2	2.7	3	silty CLAY to CLAY	115	1.5	17	8	-	-	1.6	3.5	55	2.95	15	-	-
42.49	26.7	-	26.5	0.7	-6.9	3.1	3	silty CLAY to CLAY	115	1.5	18	8	-	-	1.7	3.8	55	2.95	15	-	-
42.65	30.9	-	30.8	1.1	-6.8	4.0	3	silty CLAY to CLAY	115	1.5	21	10	-	-	2.0	4.4	56	2.97	15	-	-
42.82	33.6	-	33.4	1.9	-6.4	6.1	3	silty CLAY to CLAY	115	1.5	22	11	-	-	2.2	4.8	62	3.06	15	-	-
42.98	72.0	-	71.9	2.9	-6.3	4.2	4	clayy SILT to silty CLAY	115	2.0	36	17	-	-	4.9	9.9	40	2.69	15	-	-
43.15	109.4	173.7	109.3	4.0	-7.2	3.8	4	clayy SILT to silty CLAY	115	2.0	55	36	-	-	7.6	9.9	27	2.42	15	0.00	0.0
43.31	89.3	-	89.2	4.1	-8.7	4.7	4	clayy SILT to silty CLAY	115	2.0	45	21	-	-	6.2	9.9	38	2.65	15	-	-
43.47	84.6	-	84.5	3.8	-9.1	4.6	4	clayy SILT to silty CLAY	115	2.0	42	20	-	-	5.8	9.9	39	2.66	15	-	-
43.64	113.3	158.5	113.2	3.4	-9.8	3.1	5	silty SAND to sandy SILT	120	3.0	38	25	58	37	-	-	24	2.35	16	0.16	0.6
43.80	111.5	129.1	111.2	2.3	-11.0	2.1	5	silty SAND to sandy SILT	120	3.0	37	25	57	37	-	-	20	2.23	16	1.05	6.2
43.97	105.8	127.5	105.6	2.2	-11.4	2.2	5	silty SAND to sandy SILT	120	3.0	35	23	55	36	-	-	21	2.26	16	1.14	7.5
44.13	100.8	140.1	100.6	2.7	-11.1	2.7	5	silty SAND to sandy SILT	120	3.0	34	22	54	36	-	-	24	2.34	16	0.45	2.3
44.29	75.1	-	74.9	2.7	-11.7	3.7	4	clayy SILT to silty CLAY	115	2.0	38	17	-	-	5.2	9.9	37	2.64	15	-	-
44.46	68.8	-	68.5	3.0	-11.8	4.6	3	silty CLAY to CLAY	115	1.5	46	21	-	-	4.7	9.9	42	2.74	15	-	-
44.62	83.6	147.3	83.3	2.8	-11.9	3.5	4	clayy SILT to silty CLAY	115	2.0	42	28	-	-	5.8	9.9	30	2.48	15	0.26	0.8
44.79	93.6	137.5	93.4	2.6	-11.8	2.8	5	silty SAND to sandy SILT	120	3.0	31	21	51	36	-	-	26	2.38	16	0.53	2.9
44.95	56.7	-	56.4	1.8	-11.9	3.4	4	clayy SILT to silty CLAY	115	2.0	28	13	-	-	3.8	8.2	41	2.71	15	-	-
45.11	41.1	-	40.9	1.8	-11.9	4.7	3	silty CLAY to CLAY	115	1.5	27	13	-	-	2.8	5.8	53	2.92	15	-	-
45.28	36.4	-	36.1	1.2	-11.7	3.5	3	silty CLAY to CLAY	115	1.5	24	11	-	-	2.4	5.1	51	2.88	15	-	-
45.44	29.6	-	29.4	1.1	-11.6	4.3	3	silty CLAY to CLAY	115	1.5	20	9	-	-	1.9	4.1	59	3.01	15	-	-
45.61	32.3	-	32.1	1.7	-11.5	5.8	3	silty CLAY to CLAY	115	1.5	22	10	-	-	2.1	4.5	63	3.07	15	-	-
45.77	55.8	-	55.6	2.1	-11.5	4.0	3	silty CLAY to CLAY	115	1.5	37	17	-	-	3.8	8.0	44	2.77	15	-	-
45.93	71.3	-	71.0	2.7	-11.6	4.0	4	clayy SILT to silty CLAY	115	2.0	36	16	-	-	4.9	9.9	40	2.69	15	-	-
46.10	79.1	-	78.8	2.7	-11.5	3.5	4	clayy SILT to silty CLAY	115	2.0	40	18	-	-	5.4	9.9	36	2.61	15	-	-
46.26	113.7	137.9	113.4	2.7	-11.6	2.4	5	silty SAND to sandy SILT	120	3.0	38	25	57	37	-	-	21	2.27	16	0.57	3.1

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Reseda High School

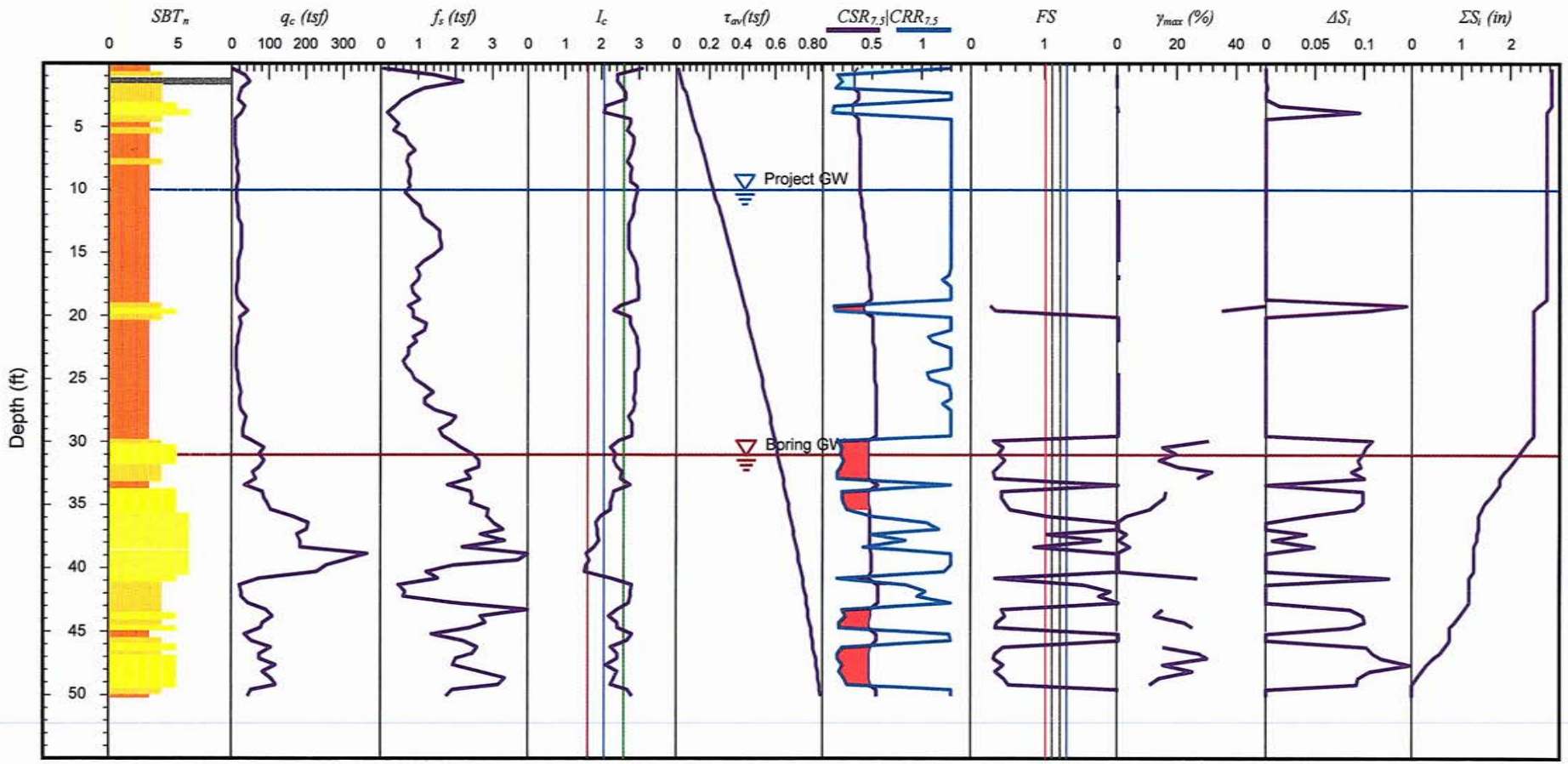
Project ID: Gorian & Associates
Data File: SDF(709).cpt
CPT Date: 4/12/2017 7:09:57 AM
GW During Test: 31 ft

Sounding ID: CPT-05
Project No: 2880-62-0-100
Cone/Rig: DDG1350

Depth ft	qc PS tsf	q1ncs PS -	qt PS* tsf	Slv Stss tsf	pore prss (psi)	Frct Rato %	Mat Typ Zon	Material Behavior Description	Unit Wght pcf	Qc to N	SPT R-N 60%	SPT* R-N1 60%	Rel Den %	Ftn Ang deg	Und Shr tsf	OCR - -	Fin Ic %	Ic* SBT Indx	Nk -	Vol* Strn %	Cycl SStn %
46.43	122.9	133.3	122.7	2.5	-11.8	2.1	5	silty SAND to sandy SILT	120	3.0	41	27	60	37	-	-	19	2.20	16	0.84	4.4
46.59	109.9	132.1	109.7	2.4	-11.6	2.3	5	silty SAND to sandy SILT	120	3.0	37	24	56	37	-	-	21	2.27	16	0.87	5.1
46.75	69.2	-	69.0	2.3	-11.5	3.5	4	clayy SILT to silty CLAY	115	2.0	35	16	-	-	4.7	9.9	38	2.66	15	-	-
46.92	47.7	-	47.5	2.7	-11.4	6.0	3	silty CLAY to CLAY	115	1.5	32	14	-	-	3.2	6.7	55	2.94	15	-	-
47.08	48.2	-	48.0	2.7	-11.5	5.9	3	silty CLAY to CLAY	115	1.5	32	14	-	-	3.2	6.7	54	2.94	15	-	-
47.25	70.6	113.9	70.4	1.7	-11.5	2.5	5	silty SAND to sandy SILT	120	3.0	24	15	41	34	-	-	28	2.44	16	1.90	48.4
47.41	100.8	112.0	100.6	1.7	-11.5	1.8	5	silty SAND to sandy SILT	120	3.0	34	22	53	36	-	-	20	2.22	16	2.10	29.7
47.57	113.9	125.1	113.7	2.2	-11.0	2.0	5	silty SAND to sandy SILT	120	3.0	38	25	57	37	-	-	19	2.21	16	1.33	9.3
47.74	122.6	117.9	122.4	1.8	-11.2	1.5	5	silty SAND to sandy SILT	120	3.0	41	26	59	37	-	-	16	2.12	16	1.81	14.7
47.90	115.6	114.6	115.4	1.8	-11.3	1.6	5	silty SAND to sandy SILT	120	3.0	39	25	57	37	-	-	17	2.14	16	2.02	21.5
48.07	97.7	131.1	97.5	2.4	-11.3	2.5	5	silty SAND to sandy SILT	120	3.0	33	21	52	36	-	-	24	2.34	16	0.89	5.8
48.23	68.5	-	68.3	2.6	-11.3	3.9	4	clayy SILT to silty CLAY	115	2.0	34	15	-	-	4.7	9.6	41	2.71	15	-	-
48.39	77.9	-	77.7	2.9	-11.2	3.8	4	clayy SILT to silty CLAY	115	2.0	39	17	-	-	5.3	9.9	38	2.66	15	-	-
48.56	99.6	147.9	99.4	3.0	-11.4	3.1	4	clayy SILT to silty CLAY	115	2.0	50	32	-	-	6.9	9.9	26	2.40	15	0.27	1.1
48.72	105.9	157.5	105.7	3.4	-11.4	3.3	4	clayy SILT to silty CLAY	115	2.0	53	34	-	-	7.3	9.9	26	2.40	15	0.17	0.6
48.89	110.4	159.2	110.1	3.5	-11.5	3.3	4	clayy SILT to silty CLAY	115	2.0	55	35	-	-	7.6	9.9	26	2.38	15	0.16	0.5
49.05	120.3	155.5	120.1	3.4	-11.6	2.9	5	silty SAND to sandy SILT	120	3.0	40	26	58	37	-	-	23	2.32	16	0.19	0.9
49.22	124.9	154.1	124.7	3.4	-11.7	2.8	5	silty SAND to sandy SILT	120	3.0	42	27	60	37	-	-	22	2.29	16	0.20	1.0
49.38	115.8	135.9	115.6	2.6	-11.7	2.3	5	silty SAND to sandy SILT	120	3.0	39	25	57	37	-	-	21	2.26	16	0.67	3.8
49.54	71.7	-	71.5	2.2	-11.7	3.2	4	clayy SILT to silty CLAY	115	2.0	36	16	-	-	4.9	9.9	37	2.64	15	-	-
49.71	42.2	-	42.0	1.9	-11.6	4.9	3	silty CLAY to CLAY	115	1.5	28	12	-	-	2.8	5.6	55	2.94	15	-	-
49.87	39.7	-	39.5	1.6	-11.5	4.4	3	silty CLAY to CLAY	115	1.5	26	11	-	-	2.6	5.3	54	2.93	15	-	-
50.04	46.7	-	46.4	1.8	-11.4	4.2	3	silty CLAY to CLAY	115	1.5	31	13	-	-	3.1	6.2	50	2.87	15	-	-
50.20	37.4	-	37.2	1.6	-11.4	4.8	3	silty CLAY to CLAY	115	1.5	25	11	-	-	2.5	4.9	57	2.98	15	-	-

* Indicates the parameter was calculated using the normalized point stress.
The parameters listed above were determined using empirical correlations.
A Professional Engineer must determine their suitability for analysis and design.

Middle Earth Geo Testing



Sensitive fine grained
Organic soils - peats
Clay to silty clay
Silty clay to clayey silt
Sandy silt to silty sand
Silty sand to clean sand
Dense sand to gravelly sand
Clayey sand to very stiff sand
Very stiff fine grained *
* Overconsolidated or cemented

Earthquake & Groundwater Information:
Magnitude = 6.67
Max. Acceleration = 0.645 g
Project GW = 10 ft
Maximum Settlement = 2.84 in
Settlement at Bottom of Footing = 2.84 in

Liquefaction: Idriss & Boulanger (2008)
Settl.: [dry] Pradel (1998); [sat] Idriss & Boulanger (2008)
Lateral spreading: Idriss & Boulanger (2008)
M correction: [Sand; Clay] Boulanger & Idriss(2004)
σv correction: Idriss & Boulanger (2008)
Stress reduction: Idriss & Boulanger (2008)

GORIAN & ASSOCIATES, INC.

Seismic Settlement Potential - CPT Data

Project:	Reseda High School				
Location:	Reseda				
Job Number:	2880-62-0-100	CPT No.:	5	Figure:	3

X:\2880-0-0-LA Unified Sch Dist-Master File\2880-62 Reseda High School\Seis Sett\GeoSuite_2880-62-0-100_5.cav

GeoSuite© Version 2.2.2.14. Developed by Fred Yi, PhD, PE, GE
Copyright© 2002 - 2018 GeoAdvanced™. All rights reserved _Commercial Copy
Prepared at 5/14/2018 3:51:33 PM

CAFM SITE ID - 13664
RESEDA SH
(8814)

GEOTECH PRELIMINARY SOILS REPORT SCOPE OF WORK
EXHIBIT A

LEGEND:

- APROXIMATE PROPOSED PRELIMINARY BORING HOLE LOCATION. (11) PRELIMINARY BORING LOCATIONS AT THIS SITE
- AB300 SEISMIC BUILDING. CONFIRM BORING LOCATIONS PER CGS REQUIREMENT.

NOTES:

1. BORING LOCATIONS ARE DIAGRAMMATIC. GEOTECH TO FIELD VERIFY LOCATIONS

2. 11-BORINGS PROPOSED FOR THIS SITE. GEOTECH MAY RECOMMEND ADDITIONAL BORINGS BASED ON SITE CONDITIONS AND PROFESSIONAL EXPERIENCE

SCALE: NTS

LOS ANGELES UNIFIED SCHOOL DISTRICT · BOARD OF EDUCATION
ASSET MANAGEMENT BRANCH
FACILITIES PLANS & RECORDS UNIT
333 S. BEAUDRY AVENUE, 23rd FLR, LOS ANGELES, CA 90017

PLOT PLAN

RESEDA SH
18230 KITTRIDGE ST.
RESEDA, CA 91335

LEGEND

CENTER LINE	
PROPERTY LINE	
FENCE LINE	
RAILING OR SCREEN	
CHANGE IN GRADE	
ASPHALT CONCRETE	A.C.
CEMENT CONCRETE	C.C.
PLANTING AREA	P.A.
TREE AREA	▯ OR T.A.
DECOMPOSED GRANITE	D.G.
GAS METER	G.M.
WATER METER	W.M.
FLAGPOLE	F.P.
AREAWAY	A.W.
STUDENT BODY OWNED	S.B.O.
FIELD LIGHT STANDARD	⊕
SANDBOX	S.B.

DRAWN BY	INDEX NO.
JGP	1/1
DATE	
01-10-2017	

APPENDIX G

Phase I Environmental Site Assessment

Phase I Environmental Site Assessment

Reseda High School
18230 Kittridge Street
Reseda, California 91335
APN: 2124-001-904

Los Angeles Unified School District
Office of Environmental Health and Safety

333 South Beaudry Avenue, 21st Floor | Los Angeles, California 90017

August 14, 2017 | Project No. 210095004

Geotechnical | Environmental | Construction Inspection & Testing | Forensic Engineering & Expert Witness

Geophysics | Engineering Geology | Laboratory Testing | Industrial Hygiene | Occupational Safety | Air Quality | GIS

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

Phase I Environmental Site Assessment

Reseda High School
18230 Kittridge Street
Reseda, California 91335
APN: 2124-001-904

Mr. Dane Robinson
Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor | Los Angeles, California 90017

August 14, 2017 | Project No. 210095004

Manasi Chavan, EIT
Senior Staff Engineer

Patrick Cullip
Project Engineer

Anthony Lizzi, PG, CHG
Principal Geologist

PROFESSIONAL GEOLOGIST
ANTHONY LIZZI
No. 7328
Exp. 3/31/19
STATE OF CALIFORNIA

MNC/PJC/AJL/gkj/sc

Distribution: (3) Addressee (1 hard copy and 2 CDs)

CONTENTS

1 INTRODUCTION 1
1.1 Purpose 1
1.2 Scope of Services 2
1.3 Significant Assumptions 2
1.4 Limitations and Exceptions 3
1.5 Special Terms and Conditions 3
1.6 User Reliance 3
1.7 Involved Parties 4
2 SITE DESCRIPTION 4
3 RECORDS REVIEW 4
3.1 Standard Environmental Record Source – Environmental Database Search 4
3.1.1 Geocoded (Mapped) Listings 5
3.1.2 Non-Geocoded (Unmapped) Listings 7
3.2 Additional Environmental Record Sources 7
3.2.1 Los Angeles Fire Department (LAFD) 8
3.2.2 Regional Water Quality Control Board, Los Angeles Region 8
3.2.3 California Department of Toxic Substances Control (DTSC) 8
3.2.4 Los Angeles Department of Public Works (LADPW) 8
3.2.5 South Coast Air Quality Management District (SCAQMD) 9
3.2.6 Online Regulatory Databases 9
3.3 Physical Setting 10
3.4 Site Historical Use Information 10
3.4.1 City Directories 10
3.4.2 Sanborn® Fire Insurance Maps 11
3.4.3 Historical Aerial Photographs 11
3.4.4 Building Department Records 12
3.4.5 Historical Topographic Maps 12
3.4.6 Land Title Records 12
3.4.7 Property Tax Records 12
3.4.8 Zoning/Land Use Records 13

3.5 Previous Reports 13
3.6 Adjacent Property History 13
4 SITE RECONNAISSANCE 13
4.1 Methodology and Limiting Conditions 13
4.2 General Site Setting 13
4.3 Adjacent Property Observations 14
4.4 Site Observations 14
5 CALIFORNIA EDUCATION CODE REQUIREMENTS AND DISTRICT BOARD RESOLUTIONS 15
5.1 High-Voltage Electrical Transmission Lines 16
5.2 Underground Pipelines 16
5.2.1 Natural Gas and Petroleum Pipelines 16
5.2.2 Water Pipelines 17
5.3 Railroad Tracks 17
5.4 Airports 17
5.5 Reservoirs/Water Storage Tanks 17
5.6 Asbestos and Lead-Based Paint (LBP) 17
5.7 Suspected Termiticides in Soil 17
5.8 Suspected Arsenic in Soil 18
5.9 Lead in Drinking Water 18
5.10 Methane 18
5.11 Traffic Noise 18
5.12 Faults 18
5.13 Flooding or Inundation Area 18
5.14 Liquefaction and Landslides 18
5.15 Compatible Zoning 19
5.16 Light, Wind, and Air Pollution 19
5.17 Easements 19
5.18 Border Zone Property 19
5.19 Cellular Phone Towers 19

6 VAPOR ENCROACHMENT/INTRUSION 20
7 INTERVIEWS 20
8 FINDINGS 20
9 OPINIONS 21
9.1 Data Gaps 21
9.2 Additional Appropriate Investigation 21
10 CONCLUSIONS 21
11 RECOMMENDATIONS 22
12 REFERENCES 23
13 PROFESSIONAL STATEMENT 25
14 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL 25

TABLES

1 – General Site Setting 4
2 – Summary of Environmental Database Search 5
3 – Off-Site Facilities of Potential Concern 6
4 – Online Regulatory Databases 9
5 – Physical Setting 10
6 – Aerial Photographs Summary 11
7 – Historical Topographic Maps Summary 12
8 – Site Observations Summary 14

FIGURES

1 – Site Location
2 – Building Locations
3 – Site Plan

APPENDICES

A – Photographic Documentation
B – Environmental Database Report (Provided on CD)
C – Regulatory Documentation (Provided on CD)
D – Historical Research Documentation (Provided on CD)
E – Office of Environmental Health and Safety Checklist

F – Vapor Encroachment Screening Matrix
G – Qualification of the Environmental Professionals

1 INTRODUCTION

Ninyo & Moore was retained by Los Angeles Unified School District (LAUSD or District), herein referred to as the client to perform a Phase I Environmental Site Assessment (ESA) of the LAUSD Reseda High School located at 18230 Kittridge Street, Reseda, California (hereinafter referred to as the site). The following sections discuss the purpose, the involved parties, the scope of services, and the limitations and exceptions associated with the Phase I ESA.

1.1 Purpose

In accordance with the ASTM International (ASTM) Standard Practice for ESAs on Commercial Real Estate E1527-13, the objective of the Phase I ESA is to evaluate recognized environmental conditions (RECs). The term recognized environmental conditions means "the presence or likely presence of any hazardous substances or petroleum products in, on, or at a property: (1) due to any release to the environment; (2) under conditions indicative of a release to the environment; or (3) under conditions that pose a material threat of a future release to the environment. De minimis conditions are not recognized environmental conditions."

Identification of RECs fall into the following three categories: existing RECs (as defined above); Historical RECs (HRECs); or Controlled RECs (CRECs). HRECs and CRECs are defined as follows:

- HREC – An HREC is defined as "a past release of any hazardous substances or petroleum products that has occurred in connection with the property and has been addressed to the satisfaction of the applicable regulatory authority or meeting unrestricted use criteria established by a regulatory authority, without subjecting the property to any required controls (for example, property use restrictions, activity and use limitations [AULs], institutional controls, or engineering controls)." An HREC is an environmental condition, which in the past, would have been considered a recognized environmental condition, but currently may or may not be considered a recognized environmental condition. An example of an HREC may be a former gas station where a release of gasoline had occurred, but the site was cleaned up to an unrestricted land use standard.

- CREC – A CREC is defined as a "recognized environmental condition resulting from a past release of hazardous substances or petroleum products that has been addressed to the satisfaction of the applicable regulatory authority (for example, as evidenced by the issuance of a no further action letter or equivalent, or meeting risk-based criteria established by a regulatory authority), with hazardous substances or petroleum products allowed to remain in place subject to the implementation of required controls (for example, property use restrictions, AULs, institutional controls, or engineering controls)." An example of a CREC could be a former gas station where a release of gasoline has been cleaned up to a commercial use standard, but does not meet unrestricted residential cleanup criteria.

1.2 Scope of Services

Ninyo & Moore's scope of services for this Phase I ESA included the activities listed below.

- Reviewed physical setting and background information.
- Performed a site and vicinity reconnaissance to visually observe areas of possibly contaminated surficial soil or surface water, improperly stored hazardous materials, suspect asbestos-containing materials (ACMs), suspect lead-based paint (LBP), possible sources of polychlorinated biphenyls (PCBs), and possible risk of contamination from activities at the site and adjacent or nearby properties.
- Reviewed federal, state, tribal, and local regulatory agency databases for the site and for properties located within a specified radius of the site.
- Reviewed reasonably ascertainable local regulatory agency files for the site, as applicable.
- Reviewed historical information for the site, such as historical aerial photographs, historical topographic maps, reverse street directories, Sanborn fire insurance maps, and building department records.
- Requested records from the local Air Quality Management District to evaluate properties within a ¼ mile radius of the site for possible activities that may reasonably be anticipated to have hazardous air emissions.
- Requested records in writing from the California State Fire Marshal regarding the possible presence of underground hazardous materials-conveying pipelines within 1,500 feet of the site along with the local natural gas utility (Southern California Gas Company) information for review and incorporation into the report.
- Reviewed user-provided information, as available.
- Interviewed the property owner representative regarding the environmental status of the site.
- Obtained an environmental lien report from a third-party vender to search for environmental liens and activity use limitations.
- Performed a preliminary vapor encroachment screen to evaluate the potential for vapor encroachment conditions.
- Prepared this Phase I ESA report, summarizing findings and providing opinions and conclusions regarding RECs at the site.

1.3 Significant Assumptions

Ninyo & Moore assumes the information sources from the third-party environmental database vendor, regulatory agencies, and interviewees utilized for this report provided adequate and accurate information. No other significant assumptions were made during the preparation of this report.

1.4 Limitations and Exceptions

The environmental services described in this report have been conducted in general accordance with current regulatory guidelines and the standard of care exercised by environmental consultants performing similar work in the project area. No warranty, expressed or implied, is made regarding the professional opinions presented in this report.

This document is intended to be used only in its entirety. No portion of the document, by itself, is designed to completely represent any aspect of the project described herein. Ninyo & Moore should be contacted if the reader requires any additional information or has questions regarding the content, interpretations presented, or completeness of this document.

The findings, opinions, and conclusions are based on an analysis of the observed site conditions and the referenced literature. It should be understood that the conditions of a site could change with time as a result of natural processes or the activities of man at the subject site or nearby sites. In addition, changes to the applicable laws, regulations, codes, and standards of practice may occur due to government action or the broadening of knowledge. The findings of this report may, therefore, be invalidated over time, in part or in whole, by changes over which Ninyo & Moore has no control. Ninyo & Moore cannot warrant or guarantee that not finding indicators of any particular hazardous material means that this particular hazardous material or any other hazardous materials do not exist on the site. Additional research, including invasive testing, can reduce the uncertainty, but no techniques now commonly employed can eliminate the uncertainty altogether.

1.5 Special Terms and Conditions

This study did not include an evaluation of geotechnical conditions or potential geologic hazards. In addition, unless otherwise indicated in this report, this Phase I ESA does not include analysis of the following, which is not intended to be all-inclusive: asbestos-containing materials, methane gas, radon, lead-based paint, lead-containing surfaces, lead in drinking water, wetlands, regulatory compliance, cultural and historic resources, industrial hygiene, health and safety, ecological resources, endangered species, or mold.

1.6 User Reliance

This report may be relied upon by, and is intended exclusively for, the client and its assigns. Any use or reuse of the findings, opinions, and/or conclusions of this report by parties other than the above-referenced client is undertaken at said parties' sole risk.

1.7 Involved Parties

Ms. Manasi Chavan, Senior Staff Engineer, conducted interviews on June 19, 2017, the site reconnaissance on June 30, 2017, and performed regulatory and historical research. Mr. Patrick Cullip, Project Engineer and Mr. Anthony Lizzi, Principal Geologist, performed quality review of the document.

2 SITE DESCRIPTION

The following table provides a general description of the subject site. Photographs taken during the site reconnaissance are provided in Appendix A.

Table 1 – General Site Setting

General Site Setting	Description
Location	The site is located at the southwest corner of the intersection of Kittridge Street and Lindley Avenue, north of the Los Angeles River (Figures 1, 2, and 3).
Assessor Parcel No.	2124-001-904 (County of Los Angeles)
Property Owner	LAUSD
Size (approximate)	29.15 acres
Site Use / Occupants	The site is developed with a school.
Structures	Sixteen permanent and several portable buildings.
Roads	Roads are not present at the site. The site is accessible via driveways along Kittridge Street and Etiwanda Avenue, adjacent to the north and west, respectively.
Heating and Cooling Systems	Roof-mounted units
Electricity and Natural Gas Provider	Los Angeles Department of Water and Power (LADWP) and Southern California Gas Company
Sewer Disposal Provider	City of Los Angeles
Potable Water Provider	LADWP
Site Vicinity Description	Primarily residential to the north and east, Los Angeles River to the south, and Reseda Park to the west.

3 RECORDS REVIEW

The following sections summarize records reviewed for the site.

3.1 Standard Environmental Record Source - Environmental Database Search

A computerized, environmental information database search was performed by EDR on June 20, 2017. The search included federal, state, tribal, and local databases. A summary of the environmental databases searched, their corresponding search radii, and number of noted properties of potential environmental concern, is presented in the EDR report (Appendix B). The review was conducted to evaluate whether the site or properties within the site vicinity have

been documented as having experienced significant unauthorized releases of hazardous substances or other events with potentially adverse environmental effects.

3.1.1 Geocoded (Mapped) Listings

The site was listed in the Facility and Manifest Data (Hazardous Materials Manifests Network [HAZNET]) database as City of Los Angeles - DPW - Bureau Sanitation and LAUSD/Reseda High School. Various hazardous wastes were removed from the site from 1993 to 2013, including household waste, laboratory waste chemicals, other inorganic solid waste, asbestos containing waste, other organic solids, alkaline solution without metals pH>=12.5, off-specification, aged or surplus organics, and waste oil and mixed oil.

The site (reported as Grey Continuation High School in EDR report) was listed on the Resource Conservation and Recovery Act (RCRA) and on the Enforcement and Compliance History Online (ECHO) databases as a large quantity generator of lead in 2008. Violations were not reported for these site listings.

The site was listed in the Facility Index System/ Facility Registry System (FINDS) database as Grey Continuation High School and LAUSD - Reseda High School pointing to other database listings discussed above. These listings are not indicative of a release and would not be considered a REC.

Off-site properties within a 1 mile radius of the site were listed on various regulatory agency databases. The following table lists databases that were searched and the number of listings (excluding non-geocoded [unmapped] properties).

Table 2 – Summary of Environmental Database Search

Database Name	Search Radius (mile)	Number of Listings
FEDERAL DATABASES		
NPL (National Priority List)	1	0
Proposed NPL	1	0
NPL LIENS (Federal Superfund Liens)	TP	0
Delisted NPL	1	0
FEDERAL FACILITY (Federal Facility Site Information listing)	1	0
SEMS (Superfund Enterprise Management System; formerly Comprehensive Environmental Response Compensation and Liability Information System)	0.5	0
SEMS-ARCHIVE (Superfund Enterprise Management System Archive)	0.5	0
CORRACTS (facilities subject to Corrective action under RCRA)	1	0
RCRA-TSDF (hazardous waste treatment, storage, or disposal facilities)	0.5	0
RCRA-LQG (large quantity generator)	0.25	1
RCRA-SQG (small quantity generator)	0.25	3
RCRA-CESQG (conditionally exempt SQG)	0.25	0
US ENGINEERING CONTROL (EC)	0.5	0
US INSTITUTIONAL CONTROL (IC)	0.5	0
ERNS (Emergency Notification System)	TP	0

Table 2 – Summary of Environmental Database Search		
Database Name	**Search Radius (mile)**	**Number of Listings**
STATE/TRIBAL DATABASES		
RESPONSE (State Response Sites, State- and Tribal- equivalent NPL)	1	0
ENVIROSTOR (The DTSC's Site Mitigation and Brownfields Reuse Program; CERCLIS-equivalent)	1	4
SWF/LF (Solid Waste Information System)	0.5	1
LUST (GeoTracker's Leaking Underground Fuel Tank Report)	0.5	12
SLIC (Spills, Leaks, Investigation and Cleanup database by the California Regional Water Quality Control Board)	0.5	1
UST (registered underground storage tanks [USTs])	0.25	0
AST (registered aboveground storage tanks [ASTs])	0.25	0
FEMA UST (Underground Storage Tank Listing)	0.25	0
VCP (Voluntary Cleanup Program Properties)	0.5	0
Notes: TP = Target Property LUST = Leaking Underground Storage Tank		

Off-site properties/facilities listed in the database report were evaluated as to their potential to impact soil and/or groundwater at the site. To supplement the information in the EDR report, the State Water Resources Control Board (SWRCB) GeoTracker online database was reviewed. Information from the EDR database report and supplemental sources is included in the facilities of potential concern summaries below. The following properties/facilities were interpreted to represent a potential environmental concern to the site, based on their proximity to the site, the nature of the database on which they are listed, and/or the assumed direction of groundwater flow in the site vicinity (east-southeast).

Table 3 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Reseda Park MTSE Ser Yard/ Rec and Parks 6503 Etiwanda Ave	Adjacent west-northwest	SWEEPS UST CA FID UST HIST UST	One active 280-gallon unleaded motor vehicle fuel UST was reported at this property. No violations were reported. Based on the absence of a release or spill, this property is not a concern to the subject site at this time.
Leon Automotive Center Inc/ Union 76/ A-1 Union 76 Service Station 18102 W Victor Blvd	143 feet south-southeast	LUST SWEEPS UST CA FID UST CHMIRS EDR Hist Auto	A gasoline station was reported at this property from 1969 to 2014. A caller reported in 2016 that the former auto shop at this property was dumping motor oil, transmission fluid, and antifreeze into the sewer system every day The former occupant, HISCO, was a small quantity generator of hazardous waste. According to GeoTracker records, this property was a former 76 gasoline station with two 12,000-gallon gasoline and one 550-gallon waste oil USTs that were removed in 2000. Several soil and groundwater sampling and monitoring activities were conducted at this property. Clean up was conducted and this property and was granted regulatory closure in 2016. Based on regulatory closure and downgradient hydrologic position relative to the site, this property is not a concern to the subject site at this time.

Table 3 – Off-Site Facilities of Potential Concern			
Facility Name / Address	**Distance/ Direction from Site**	**Database**	**Summary**
Lindley Avenue Transfer Station 6351 Lindley Avenue	370 feet south-southeast	SWF/LF RCRA-SQG	This on-acre property was listed as a limited volume transfer operation that accepts construction/ demolition, green materials, and mixed municipal waste. Inspection reports from 1993 through 2017 were available for review on the California Integrated Waste Management Board's CalRecycle website (CIWMB, 2017). Violations and Areas of Concerns were issued to the property in 1993, 1994, 195, 1997, and 2002 for housekeeping, paperwork, and permitting issues. Based on this information and downgradient hydrologic position relative to the site, this property is not a concern to the subject site at this time.

Notes:
- Distances and direction provided by EDR
- A description of each database is provided in the EDR Report (Appendix B).

It is our opinion that there is a low likelihood that the remaining listings for offsite properties listed in the database report represent a REC to the site at the current time. This opinion is based on one or more of the following factors:

- The nature of the database(s) on which the property was listed, and/or because the property was not listed on a database that reports unauthorized releases of hazardous substances;
- Reported regulatory agency status (i.e., case closed);
- Reported nature of the case (i.e., soil contamination only);
- Reported distance of the property from the site; and/or
- Location of the property in relation to the site with respect to topography or expected groundwater flow direction (east-southeast).

3.1.2 Non-Geocoded (Unmapped) Listings

This portion of the regulatory database report includes properties for which regulatory agencies did not report sufficient address information to be plotted by EDR. Four unmapped facilities were included in the EDR Radius Map™ report. Based on our reconnaissance of the site vicinity and a review of the unmapped listings, they are not within the applicable search radii. There is low likelihood that the unmapped facilities have a negative environmental effect on the subject site.

3.2 Additional Environmental Record Sources

According to the ASTM Standard, "if the property or any of the adjoining properties is identified on one or more of the standard environmental record sources, pertinent regulatory files and/or

records associated with the listing should be reviewed." Regulatory agency files from adjacent properties and other properties of potential concern were reviewed and summarized in Table 4. The review of regulatory agency records for the site is discussed in the following sections. Regulatory records for the site and properties of potential concern are provided in Appendix C.

3.2.1 Los Angeles Fire Department (LAFD)

Ninyo & Moore submitted records requests to the LAFD – UST Division and LAFD – Hazardous Materials Division. According to the LAFD – UST Division, records were not available for the site. The LAFD – Hazardous Materials Division indicated records were available for the site address.

An inventory summary for the site included inactive (since 1991) listings for several chemicals including "A B dick mimeograph correction fluid", belt cleaner, block print ink, brake fluid, CB-40, cleaner-auto parts, cleanser, commercial fertilizer, DDC, dispersant, dye for plastic laminating, Elmer's school glue, hydraulic oil tanks (up to 40 gallons), lac motor oil, printer's ink, sewing machine oil, WD-40, weed wrangler; and active listings for diesel (up to 55 gallons) and gasoline (up to 165 gallons). Based on the inactive nature of several of the listed chemicals and proper storage (55-gallon drums on sand covered floor) of gasoline and diesel at the site (see Section 4.4), this information would not be considered an environmental concern to the site.

3.2.2 Regional Water Quality Control Board, Los Angeles Region

According to a representative of the Regional Water Quality Control Board on June 26, 2017, no files were found for the site address.

3.2.3 California Department of Toxic Substances Control (DTSC)

Ninyo & Moore requested records for the site from the DTSC – Chatsworth and Cypress offices. According to the DTSC – Chatsworth and Cypress offices, records were not found for the site address.

3.2.4 Los Angeles Department of Public Works (LADPW)

Ninyo & Moore reviewed the Los Angeles Department of Public Works online file review website for information on the site addresses and closed LUST case. According to the LADPW website, records related to industrial waste, USTs, or stormwater were not found.

3.2.5 South Coast Air Quality Management District (SCAQMD)

In accordance with Section 17213 of the California Code of Education, properties located within a ¼-mile radius of the site that might reasonable be anticipated to emit hazardous air emissions should be evaluated. Ninyo & Moore reviewed records for facilities within a ¼-mile radius of the site address from SCAQMD's Facility Information Database (FIND) website.

The site was listed as LAUSD, Reseda High School for inactive boilers and two inactive permits for spray paint booths (each with a different dimension) from 1964. Notices of violation or notices to comply were not issued for the site. Boilers and/or spray paint booths were not observed during Ninyo & Moore's site reconnaissance. The former presence of spray paint booths on-site represent a REC.

Listings for two facilities were found within a ¼-mile radius of the site: Los Angeles City Recreation & Parks Department at 6503 Etiwanda Avenue, adjacent to the west of the site and Firehouse Restaurant, J Melitsopoulos Etc. at 18450 Victory Boulevard, approximately 0.22 miles southwest of the site. Firehouse Restaurant, J Melitsopoulos Etc. was listed for a natural gas charbroiler in 1990 (inactive). Los Angeles City Recreation & Parks Department was listed for an inactive 280-gallon gasoline storage tank in 1993. Notices of violation or notices to comply were not issued for these facilities. Based on the review of these listings, it is unlikely that these listings pose an environmental concern.

3.2.6 Online Regulatory Databases

Online regulatory databases were reviewed by Ninyo & Moore to supplement the environmental database search conducted by EDR. The following is a summary of pertinent information.

Table 4 – Online Regulatory Databases

Online Database/Website	Findings
California Department of Toxic Substances Control (DTSC) EnviroStor	Neither the site nor properties within 1,000 feet are listed.
State Water Resources Control Board (SWRCB) GeoTracker	The site was not listed, The property listed within 1,000 feet is discussed in Section 4.1.1 – Table 4.
California Department of Resources Recycling and Recovery (CalRecycle) Solid Waste Information System	Neither the site nor properties within 1,000 feet are listed.
United States Pipeline and Hazardous Materials Safety Administration, National Pipeline Mapping System Map Viewer	Pipelines are not depicted on or adjacent to the site. Pipelines are further discussed in Section 5.2
US Army Corps of Engineers, Formerly Used Defense Sites (FUDS), Geographic Information System	FUDS listings are not depicted within 1,000 feet of the site.

3.3 Physical Setting

The following table summarizes topographic, geologic, and hydrogeologic conditions in the vicinity of the site, based upon the referenced documents review and/or our visual reconnaissance of the site.

Table 5 – Physical Setting

Physical Settings	Reference	Summary
Topography	A	The site elevation ranges from approximately 725 feet above mean sea level (MSL). The regional topography slopes to the east-southeast.
Site Geology	B	The site is underlain generalized soil types (Q) primarily comprised of non-marine and marine (continental) sedimentary rock from the Pleistocene to Holocene periods.
Surface Water	A	The nearest surface water is the Reseda Park Lake, located approximately 500 feet to the west of the site.
Groundwater	C	Groundwater information specific to the site was not available. According to the State Water Resources Control Board (SWRCB) GeoTracker website (www.geotracker.swrcb.ca.gov), groundwater was measured at Leon Automotive Center, Inc. at 18102 Victory Boulevard, located adjacent to the south (cross-gradient) of the site, across from Victory Boulevard. Groundwater was encountered between approximate depths of 29.02 and 31.06 feet below ground surface (bgs), with groundwater flowing to the east-southeast, in the general direction of the regional topography. Groundwater levels, gradient, and flow direction can fluctuate due to seasonal variations, groundwater withdrawal or injection, changes in land use, and other factors.
Radon	D	Based on the results of California statewide radon surveys conducted in 2010 and updated in 2016 by the California Department of Health Services, the possibility that high levels of radon exist at the site is considered to be low. Radon concentrations at, or above, 4 picocuries per liter (pCi/l) are considered to be of environmental concern to the United States Environmental Protection Agency (EPA) and California EPA (Cal-EPA). Based on this survey, 142 tests for radon were conducted within the zip code in which the site is located (i.e., 91335) and 23 tests contained results with radon concentrations of 4 pCi/l or higher (up to 10.9 pCi/l). Radon testing was not performed at the site and was beyond the scope of services for this Phase I ESA.

References:
A = United States Geological Survey (USGS), Canoga Park, California, 7.5-minute quadrangle map (USGS, 2012)
B = Geologic Map of California (Department of Conservation, 2010)
C = GeoTracker website (SWRCB, 2017)
D = California Indoor Radon Test Results (California Department of Public Health, 2016)

3.4 Site Historical Use Information

Ninyo & Moore conducted a historical record search for the site. This included a review of city directories, historical fire insurance maps, historical aerial photographs, topographic maps, and building department records. The following sections summarize information obtained from the historical sources utilized for this assessment.

3.4.1 City Directories

Available historical reverse street directories from 1920 through 2014 were researched by EDR. The site address is listed as Reseda High School since 1956. The surrounding

properties were generally developed with residential and commercial. The EDR City Directory Report is provided in Appendix D.

3.4.2 Sanborn® Fire Insurance Maps

Sanborn® fire insurance maps were requested from EDR; however, according to EDR's Certified Sanborn Map Report, there is no map coverage in the site vicinity (Appendix D).

3.4.3 Historical Aerial Photographs

Historical aerial photographs were provided by EDR and reviewed online using Google Earth for select years from 1928 through 2016. A listing of the photographs reviewed and summary of notable observations from the photograph review are provided in the table below. EDR-provided aerial photographs are included in Appendix D.

Table 6 – Aerial Photographs Summary

Date	Source	Summary
1928 1938 1947	A	The site is developed as agricultural land with some structures in the northeast corner. Adjacent properties are depicted as agricultural and/or undeveloped land with scattered residential structures. The Los Angeles River is depicted adjacent to the southwest of the site. The current park to the west of the site is depicted beginning in 1938.
1952	A	The site is similar to that observed in 1947 aerial photograph, except that the structures in the northeast corner of the site are no longer present. Adjacent properties to the north and east of the site are heavily developed with residential properties.
1964 1967 1970 1972 1977 1983 1989 1995	A	The site is redeveloped with the current school improvements, except for some structures in the northeast, southeast, and southwest portions of the site. Additional residential and some commercial development is apparent to the south of the site.
2002	A	The site and adjacent properties are similar to those observed in 1995 aerial photograph, except that some additional structures are apparent in the southwest portion of the site.
2005	B	The site and adjacent properties are similar to those observed in 1995 aerial photograph, except that some additional structures are apparent in the northeast portion of the site.
2009 2010 2012 2016	A, B	The site and adjacent properties are similar to those observed in 1995 aerial photograph, except that some additional structures are apparent in the southeast portion of the site.

Sources: A – EDR
B – Google Earth

The site consisted of agricultural land (with some structures in the northeast corner from the 1920s to the 1940s) from the 1920s to 1954/1955, when the site was first developed with the current school buildings/ improvements. Based on the historical agricultural use of the property, commercial pesticides and herbicides have possibly been applied to the site and

site vicinity during the agricultural use of the land. Residual concentrations of these substances and/or their breakdown derivatives may be present in the site soils. The historical aerial photographs reviewed by Ninyo & Moore indicated the presence of some structures in the northeast portion of the site where pesticides or herbicides may have been mixed or stored. Based on our experience, it is our opinion that the former agricultural usage of the site with some structures in the northeast portion of the site is considered a REC.

3.4.4 Building Department Records

Ninyo & Moore reviewed building permits for the site on the Los Angeles Department of Building and Safety Permit and Inspection Report website (https://www.permitla.org/ipars/The_index.cfm). Several new building construction permits from 1954 and 1955 and certificates of occupancy (school) from 1955 and 1956 were noted. Review of building permit records did not indicate evidence of RECs associated with the site.

3.4.5 Historical Topographic Maps

Historical topographic maps were provided by EDR. A summary of the maps is provided in the table below and they are included in Appendix D.

Table 7 – Historical Topographic Maps Summary

Date	Summary
1903 1928	The site and surrounding area are depicted as vacant.
1928	A structure was observed in the northeast corner of the site. The surrounding area is depicted as vacant.
1944 1947	The site is developed as agricultural land in the west portion and a structure in the northeast corner. Adjacent properties are depicted with scattered residential structures. Reseda Park is depicted to the west of the site.
1952	The site was similar to that observed in 1947 topographic map, except that the structure in the northeast corner of the site is no longer present. Adjacent properties to the north and east are shown as dense urban areas.
1967	The site is depicted with current buildings. Adjacent properties are shown as dense urban areas.
2012	The site and vicinity are in their present day configurations. Individual structures are not shown.

3.4.6 Land Title Records

Historical land title records were not readily available.

3.4.7 Property Tax Records

Historical property tax records were not provided by the client for review or researched at http://assessor.lacounty.gov/.

3.4.8 Zoning/Land Use Records

According to the Los Angeles City Zone Information and Map Access System (ZIMAS) website (ZIMAS, 2017), the site is currently zoned "PF-1XL," for public facilities zone, which includes public elementary and secondary schools. Based on a review of the ZIMAS website, the following addresses are also associated with the site:

- 6500 and 6510 North Etiwanda Avenue
- 6541 and 6557 North Lindley Avenue
- 18130 West Kittridge Street

3.5 Previous Reports

Prior reports and/or documents were not provided for review.

3.6 Adjacent Property History

The adjacent properties consisted of agricultural and/or undeveloped land since the 1920s. The property to the west of the site was developed as Reseda Park in the 1940s. The properties to the north and east of the site were developed with residential structures starting in the 1950s. The properties to the south of the site were developed with residential and commercial structures starting in the 1960s.

4 SITE RECONNAISSANCE

The objective of the site reconnaissance was to obtain information indicating the potential for RECs in connection with the site. Ms. Manasi Chavan conducted the reconnaissance on June 30, 2017, and was accompanied by Mr. Diego Serrano, Plant Manager at Reseda High School. A site plan is provided as Figure 3 and photographic documentation is provided in Appendix A.

4.1 Methodology and Limiting Conditions

The site reconnaissance consisted of walking on the site and along public sidewalks (for viewing of adjacent/nearby properties). Limiting conditions were not encountered.

4.2 General Site Setting

At the time of the site reconnaissance, the site was developed with sixteen permanent and several portable buildings structures, athletic fields, and playground areas. The topography at the site is generally flat and in the site vicinity slopes to the east-southeast. Surface drainage is expected to flow to the Los Angeles River channel located to the south of the site.

4.3 Adjacent Property Observations

Adjacent properties were observed from the site and from publicly accessible vantage points (e.g., streets, sidewalks) during the site reconnaissance. The properties adjacent to the site are as follows and as depicted on Figure 2:

- **North**: Kittridge Street, followed by residential properties.
- **East**: Lindley Avenue, followed by residential properties.
- **South**: Los Angeles River, followed by ONEgeneration Senior Enrichment Center (18255 Victory Boulevard).
- **West**: Etiwanda Avenue, followed by Reseda Park.

4.4 Site Observations

Ninyo & Moore evaluated the site for evidence of the following potential environmental concerns:

Table 8 – Site Observations Summary

Conditions	Observed or Noted	Comments
Hazardous Substances/Petroleum Products	X	Three 55-gallon drums of gasoline and one 55-gallon drum of diesel were observed in a storage room of the utility building. Four propane cylinders and some paint containers were also observed in the storage room. The floor of the room was covered with sand, providing secondary containment. Minor surface staining was observed in the storage room, however cracked or degraded pavement was not observed. Small quantity (1-gallon to 5-gallon) containers of cleaning supplies, paint, and petroleum products were observed in the maintenance room of the utility building. Hazardous materials observed included ammonia, degreasers, glass cleaners, floor finish, paint, epoxy, and enamel. Minor surface staining was observed in the maintenance room; however, cracked or degraded pavement was not observed. Small quantity containers of various chemicals used for science classes were observed in storage rooms of the Science, Arts, and Industrial Arts buildings. Chemicals included ammonium sulfate, sodium iodine, potassium carbonate, acetone, acids (hydrochloric acid, acetic acid, etc.), toluene, and metals (zinc, aluminum, nickel, etc.).
Waste Generation/Storage/Disposal		Not observed
ASTs		Not observed
Potential Evidence of USTs		Not observed

Table 8 – Site Observations Summary		
Conditions	**Observed or Noted**	**Comments**
Potential PCB-Containing Equipment	X	One pad-mounted electrical transformer was observed within an electrical enclosure located south of the Industrial Arts building. Leaks or stains were not observed in the vicinity of the transformer. One pole-mounted transformer was observed on Etiwanda Avenue (off site), adjacent to the west of the site. Based on the DTSC guidelines, the presence of the transformer represents a REC.
Chemical/Petroleum Odors		Not observed
Concrete Patches/Pads		Not observed
Pools of Liquid		Not observed
Sewage Discharge Pipes		Not observed
Floor Drains/Sumps	X	Drains were observed within the former boiler room of the Utility building. The boiler room drains are not considered an environmental concern at this time.
Elevator		Not observed
Wells		Not observed
Drums	X	See discussion above.
Unidentified Substance Containers		Not observed
Stained Soil or Pavement		Not observed
Stressed Vegetation		Not observed
Pits, Ponds, or Lagoons		Not observed
Wastewater Discharges Disposal Systems	X	One inactive three-stage clarifier was observed adjacent to the south of the Industrial Arts building. The clarifier was associated with the former automotive shop. A grease trap was observed in the kitchen area of the Cafeteria building. A catch basin was observed in the ceramics classroom in the Science building. The presence of one inactive clarifier represents a REC for the site.
Septic Systems/Cesspools		Not observed
Municipal Solid Waste Disposal Areas	X	One brick incinerator (currently not in use) that was formerly used to burn trash was observed at the southwest side of the Utility building. Several dumpsters that are serviced by Republic Services were observed on the site.

5 CALIFORNIA EDUCATION CODE REQUIREMENTS AND DISTRICT BOARD RESOLUTIONS

Section 17213(a) of the California Education Code states that the governing board of a school district should evaluate if the school site contains the following where significant renovation is planned:

- A current or former hazardous waste disposal site or solid waste disposal site unless, if the site was a former solid waste disposal site, the school district concludes that the wastes have been removed.
- A hazardous substance release site identified by the State Department of Health Services in a current list adopted pursuant to Section 25356 of the Health and Safety Code.
- A site which contains one or more pipelines, situated underground or aboveground, which carry hazardous substances, acutely hazardous materials, or hazardous wastes, unless the pipeline is a natural gas pipeline which is used only to supply natural gas to that school or neighborhood.

Ninyo & Moore has assessed these conditions with respect to the site and are discussed in the following sections. California Department of Education (CDE) Checklist provides a summary of the CDE potential hazards which were evaluated as part of this Phase I ESA (Appendix E).

In addition, the California Education Code states that the governing board of a school district must identify facilities within 0.25 mile of the proposed school site which might reasonably be anticipated to emit hazardous air emissions, or to handle hazardous or acutely hazardous materials, substances, or waste; and the school board must determine that the health risks from the facilities do not and will not constitute an actual or possible endangerment of public health to persons who would attend or be employed at the school. A discussion of air emissions within 0.25 mile of the site is summarized in Section 3.2.5.

5.1 High-Voltage Electrical Transmission Lines

In accordance with Title 5, Section 14010 of the California Code of Regulations, the property line of a new school site should be at the following distance from the edge of respective power line easements: (1) 100 feet for a 50-133 kilovolt (kV) line, (2) 150 feet for a 220-230 kV line, and (3) 350 feet for a 500-550 kV line.

According to the site reconnaissance and the environmental database search performed for Ninyo & Moore by EDR, the closest overhead electrical transmission lines are located approximately 0.6 mile to the west of the site.

5.2 Underground Pipelines

The following paragraphs provide information regarding underground petroleum, natural gas, and water lines located within 1,500 feet of the site.

5.2.1 Natural Gas and Petroleum Pipelines

Hazardous liquid pipeline location information was reviewed through the U.S. Department of Transportation's Pipeline and Hazardous Materials Safety Administration's National Pipeline Mapping System (NPMS, www.npms.phmsa.dot.gov). According to the NPMS, pipelines are not depicted on or within 1,500 feet of the site.

Ninyo & Moore also reviewed the Gas Company website (http://www.socalgas.com/safety/pipeline-maps/LA.shtml) for information on pipeline location information. According to the Gas Company website, pipelines are not depicted on or within 1,500 feet of the site.

5.2.2 Water Pipelines

According to Ms. Jennifer Kurt of Los Angeles Department of Water and Power (LADWP), there are no high-pressure water pipelines within 1,500 feet of the site. There are water lines beneath Kittridge Street with lateral service, Lindley Avenue with lateral service, and Victory Boulevard, with pipe diameters ranging from 4 to 12 inches.

5.3 Railroad Tracks

During the site reconnaissance, railroad tracks were not observed within or adjacent to the site. According to the USGS Canoga Park Quadrangle map, railroad tracks are not present within 1,500 feet of the site.

5.4 Airports

According to the USGS Canoga Park Quadrangle map, Van Nuys Airport is located approximately 1.88 nautical miles northeast of the site.

5.5 Reservoirs/Water Storage Tanks

Large aboveground water storage tanks/reservoirs were not observed on or near the site during the site reconnaissance. According to Ms. Jennifer Kurt of LADWP, reservoirs/water storage tanks are not located within 1,500 feet of the site.

5.6 Asbestos and Lead-Based Paint (LBP)

Asbestos management and abatement plans are currently in place for the site. The on-site ACMs and LBP will be managed separately during the planned demolition, construction, and renovation activities by using the existing management plans as a starting point to be supplemented by additional sampling and analyses. Suspect ACMs and painted surfaces were observed to be in good condition. The presence of suspected lead from LBP in shallow soil around the buildings is a REC.

5.7 Suspected Termiticides in Soil

Based on the age of construction of school buildings, in accordance with California DTSC guidelines, the suspected presence of organochlorine pesticides (OCPs) in shallow soil around building foundations would be considered a REC.

5.8 Suspected Arsenic in Soil

Prior to 1980, it was a common practice for the District to apply herbicides containing arsenic to soil prior to placing asphaltic concrete (AC) pavement. Based on the age of the AC pavement at the site, the suspected presence of arsenic underneath said pavement would be considered a REC.

5.9 Lead in Drinking Water

According to the 2016 LADWP Annual Water Quality Report, lead in drinking water met the primary drinking water standards and therefore, is not considered a concern.

5.10 Methane

According to the ZIMAS website (ZIMAS, 2017), the site does not lie within a methane zone or methane buffer zone.

5.11 Traffic Noise

According to the CDE School Site Selection and Approval Guide (CDE, 2000), the California Department of Transportation considered sound at 50 decibels in the vicinity of schools to be the point at which it will take corrective action for noise generated by freeways. The nearest freeway is United States Route 101, approximately 1.2 miles south of the site. Based on the distance of the nearest freeway, traffic noise would not be considered a concern.

5.12 Faults

According to the ZIMAS website, the nearest fault is the Northridge fault, approximately 11.14 kilometers (6.9 miles) from the site. The site is not within an Alquist-Priolo Fault Zone.

5.13 Flooding or Inundation Area

According to the Safety Element of the Los Angeles City General Plan (City of Los Angeles, 1996), the east-southeast portion of the site is in a potential inundation area; however, the site is not in an area potentially impacted by a tsunami. According to the Safety Element and EDR Radius Report, the southern edge of the site is within the 100-year flood zone.

5.14 Liquefaction and Landslides

According to the ZIMAS website, the site is not near landslide; however, it is in a liquefaction zone.

5.15 Compatible Zoning

According to the ZIMAS website, the site vicinity is zoned to be in the River Improvement Overlay District consisting of primarily residential properties, with some commercial properties to the south of the site.

5.16 Light, Wind, and Air Pollution

Ninyo & Moore reviewed lightpollutionmap.info, which provides radiance measurements from less than 0.25 to over 40.0 x 10^{-9} watts per steradian per square centimeter (W/sr/cm^2). Data is provided by the Earth Observation Group and National Oceanic and Atmospheric Administration National Geophysical Data Center. According to the website, the site has a radiance of approximately 30.8 x 10^{-9} W/sr/cm^2.

According to the wind finder website (windfinder.com), wind statistics were available for the Van Nuys Airport, approximately 1.88 nautical miles to the northeast of the site. The average wind direction for the previous 12 months was to the northwest, and the average wind speed was 7 miles per hour.

Ninyo & Moore reviewed the historical air quality data from 2014 available from SCAQMD for the West San Fernando Valley Region. According to the SCAQMD, measurements for carbon monoxide, ozone, and nitrogen dioxide did not exceed SCAQMD maximums in 2014 (SCAQMD, 2014). The site is not listed on the District's Priority List of Schools Most at Risk from Air Pollution (Los Angeles Unified School District [LAUSD], 2008).

Since the site is an existing school, this information would not be considered a concern.

5.17 Easements

Easements restricting access or building placement were not found on the ZIMAS website.

5.18 Border Zone Property

Based on the site reconnaissance and information provided by EDR, the site is not located within 2,000 feet of a significant disposal of hazardous waste facility.

5.19 Cellular Phone Towers

According to the MapMuse website (http://find.mapmuse.com/map/cell-towers), cellular phone towers are not on or adjacent to the site.

6 VAPOR ENCROACHMENT/INTRUSION

The purpose of the preliminary vapor encroachment screen is to identify a vapor encroachment condition (VEC), which is the presence or likely presence of potential contaminants of concern (COC) vapors in subsurface soils at the site caused by the release of vapors from contaminated soil or groundwater either on or near the site. The potential for VECs beneath the site was evaluated using a Vapor Encroachment Screening Matrix (VESM) in accordance with ASTM E 2600-15 Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions. The VESM included performing a Search Distance Test to identify if there are any known or suspect contaminated properties surrounding or upgradient of the site within specific search radii, a COC Test (for those known or suspect contaminated sites identified within the Search Distance Test) to evaluate whether or not COCs are likely to be present, and a Critical Distance Test to evaluate whether or not COCs in a contaminated plume may be within the critical distance of the site (100 feet for non-petroleum hydrocarbon contaminants and 30 feet for petroleum hydrocarbon contaminants).

Based on the VESM and presence of a clarifier and historic spray paint booths on-site, a VEC cannot be ruled out. A copy of the VESM is included in Appendix F.

7 INTERVIEWS

Ninyo & Moore interviewed Mr. Diego Serrano, Plant Manager at Reseda High School. Mr. Serrrano indicated that they did not have knowledge of above or underground storage tanks or water treatment on the site. On-site hazardous waste storage, clarifiers, and other site observations are discussed in Section 4.4.

8 FINDINGS

Based upon the results of this Phase I ESA, the following findings are provided.

- The site consists of an approximately 29.5-acre parcel located at the southwest corner of the intersection of Kittridge Street and Lindley Avenue.
- At the time of the site reconnaissance, the site was developed with sixteen permanent and several portable buildings, athletic fields, and playground areas.
- One pad-mounted electrical transformer was observed within an electrical enclosure located south of the Industrial Arts building. Leaks or stains were not observed in the vicinity of the transformer. One inactive three-stage clarifier was observed adjacent to the south of the Industrial Arts building. The clarifier was associated with the former automotive shop. A grease trap was observed in the kitchen area of the Cafeteria building. A catch basin was observed in the ceramics classroom in the Science building. One brick incinerator (currently not in use) that was formerly used to burn trash was observed at the southwest side of the Utility building. The topography at the site is generally flat and in the site vicinity slopes to the east-southeast.

- Based on a review of historical resources, the site consisted of agricultural land (with some structures in the northeast corner from the 1920s to the 1940s) from the 1920s to 1954/1955, when the site was first developed with the current school buildings/ improvements.

- The site was listed in the HAZNET, RCRA-LQG, ECHO, and FINDS databases as a large quantity generator of lead in 2008. Various hazardous wastes were removed from the site from 1993 to 2013, including household waste, laboratory waste chemicals, other inorganic solid waste, asbestos containing waste, other organic solids, alkaline solution without metals pH>=12.5, off-specification, aged or surplus organics, and waste oil and mixed oil. Violations were not reported for these site listings.

- According to SCAQMD records, LAUSD, Reseda High School was issued inactive permits for boilers and an inactive permit for two spray paint booths in 1964. Notices of violation or notices to comply were not issued for the site. Boilers and/or spray paint booths were not observed during Ninyo & Moore's site reconnaissance.

- Properties of potential concern in the site vicinity were researched and were not found to have the potential to adversely impact the site.

- Based on the completion of the VESM, a VEC was not found.

9 OPINIONS

The rationale for concluding whether the conditions listed in Section 8, above, represent RECs, HRECs, or CRECs (i.e., the presence or likely presence of hazardous substances or petroleum products on a property under conditions indicative of releases, past releases, or a material threat of a release of hazardous substances, pollutants, contaminants, and/or petroleum/petroleum products at the site) is provided below.

9.1 Data Gaps

Significant data gap that would affect the ability of the environmental professional to evaluate conditions indicative of releases or threatened releases were not encountered.

9.2 Additional Appropriate Investigation

It is our opinion that additional appropriate investigation to evaluate RECs at the site should be conducted.

10 CONCLUSIONS

We have performed a Phase I ESA, in conformance with the scope and limitations of the ASTM Practice E 1527-13, of the property located at 18230 Kittridge Street, Reseda, California. Any exceptions to, or deletions from, this practice are described in Section 1.4 and in the body of this report. This assessment has revealed the following RECs in connection with the site:

- The former agricultural use of the site with some structures in the northeast portion of the site.
- One inactive clarifier associated with the former automotive shop adjacent to the south of the Industrial Arts building (including a potential vapor encroachment condition).
- The former presence of spray paint booths on-site (including a potential vapor encroachment condition) based on the potential for releases from former leaks.
- Based on the former use of the incinerator to burn solid wastes, the likely presence of burnt material surrounding the incinerator.
- Based on the age of the current site buildings, persistent termiticides (organochlorine pesticides or OCPs) and lead (from LBP) may be present in shallow soil around building foundations.
- Polychlorinated biphenyl (PCB)-containing materials may be present from the on-site pad mounted transformer installed prior to 1979.
- Arsenic in shallow soil underneath AC pavement may be present due to the LAUSD's former standard practice of applying herbicides containing this metal prior to paving.
- Based on the results of the VESM and information obtained during this Phase I ESA, a VEC cannot be ruled out beneath the site.

11 RECOMMENDATIONS

Based on the findings of the Phase I ESA, additional environmental assessment is recommended for the site, as discussed below:

- In locations of future construction, the possible presence of PCBs, OCPs, arsenic, and lead in shallow soil at the site should be assessed in the form of a Preliminary Environmental Assessment-Equivalent and in general accordance with California Department of Toxic Substances Control (DTSC) guidance documents (DTSC, 2002, 2003, and 2006).
- If construction or demolition activities are planned for buildings near the inactive clarifier, former spray booths, or incinerator, soil and soil vapor should be evaluated to determine the extent of site contamination, if any.

12 REFERENCES

Army Corps of Engineers, 2017, Formerly Used Defense Sites Geographic Information System website, https://rsgis.crrel.usace.army.mil/publicfuds: accessed in July.

ASTM International, 2013, Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions, Designation E2600-15, dated November.

ASTM International, 2013, Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process, Designation E-1527-13.

California Department of Public Health, 2016, California Indoor Radon Test Results, http://www.cdph.ca.gov/healthinfo/environhealth/Documents/Radon/RnReport02262016.pdf, updated February.

California Department of Toxic Substances Control, 2002, Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated August 26.

California Department of Toxic Substances Control, 2003, Addendum to Interim Guidance for Sampling Agricultural Fields for School Sites (Second Revision), dated September 26.

California Department of Toxic Substances Control, 2006, Interim Guidance, Evaluation of School Sites with Potential Soil Contamination as a Result of Lead from Lead-Based Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers, dated June 9.

California Department of Toxic Substances Control, 2017, EnviroStor Website: http://www.envirostor.dtsc.ca.gov/public/: accessed in July.

California Integrated Waste Management Board, 2017, CalRecycle website, Solid Waste Information System database, http://www.ciwmb.ca.gov/SWIS: accessed in July.

CDE, see California Department of Education

City of Los Angeles, 1996, Safety Element of the Los Angeles City General Plan, Adopted by the City Council on November 26.

CIWMB, see California Integrated Waste Management Board

Department of Conservation, 2010, Geologic Map of California, http://maps.conservation.ca.gov/cgs/gmc/: accessed in July.

DTSC, see California Department of Toxic Substances Control

EDR, see Environmental Data Resources, Inc.

Environmental Data Resources Inc., 2017, Certified Sanborn Map Report, 18230 Kittridge Street, Reseda, CA 91335: dated June 19.

Environmental Data Resources Inc., 2017, EDR Environmental Lien and AUL Search, 18230 Kittridge Street, Reseda, CA 91335: dated May 22.

Environmental Data Resources Inc., 2017, EDR Historical Topo Map Report, 18230 Kittridge Street, Reseda, CA 91335: dated June 19.

Environmental Data Resources Inc., 2017, The EDR Aerial Photograph Decade Package, 18230 Kittridge Street, Reseda, CA 91335: dated June 20.

Environmental Data Resources Inc., 2017, The EDR Radius Map Report with GeoCheck, 18230 Kittridge Street, Reseda, CA 91335: dated June 20.

Environmental Data Resources Inc., 2017, The EDR-City Directory Abstract, 18230 Kittridge Street, Reseda, CA 91335: dated June 21.

LADPW, see Los Angeles Department of Water and Power

LAUSD, see Los Angeles Unified School District

Los Angeles Department of Water and Power, 2016 Drinking Water Quality Report for the Period of January 1 through December 31, 2016.

Los Angeles Unified School District, 2008, Priority List of Schools Most as Risk from Air Pollution, dated March 31.

National Pipeline Mapping System, 2017, NPMS Public Map Viewer, https://www.npms.phmsa.dot.gov.

NPMS, see National Pipeline Mapping System

SCAQMD, see South Coast Air Quality Management District

South Coast Air Quality Management District, 2014, 2014 Air Quality, http://www.aqmd.gov/docs/default-source/air-quality/historical-data-by-year/aq14card-gases.pdf?sfvrsn=8.

State Water Resources Control Board, 2017, Geotracker Online Database: http://geotracker.swrcb.ca.gov: accessed in May.

United States Geological Survey, 2012, Canoga Park, California: 7.5-minute series (topographic), Scale 1:24,000.

ZIMAS, see Zone Information and Map Access System

Zone Information and Map Access System, 2016, http://zimas.lacity.org/.

13 PROFESSIONAL STATEMENT

As required by 40 CFR §312.21(d) and Section 12.13 of ASTM 1527-13, the following statement is included:

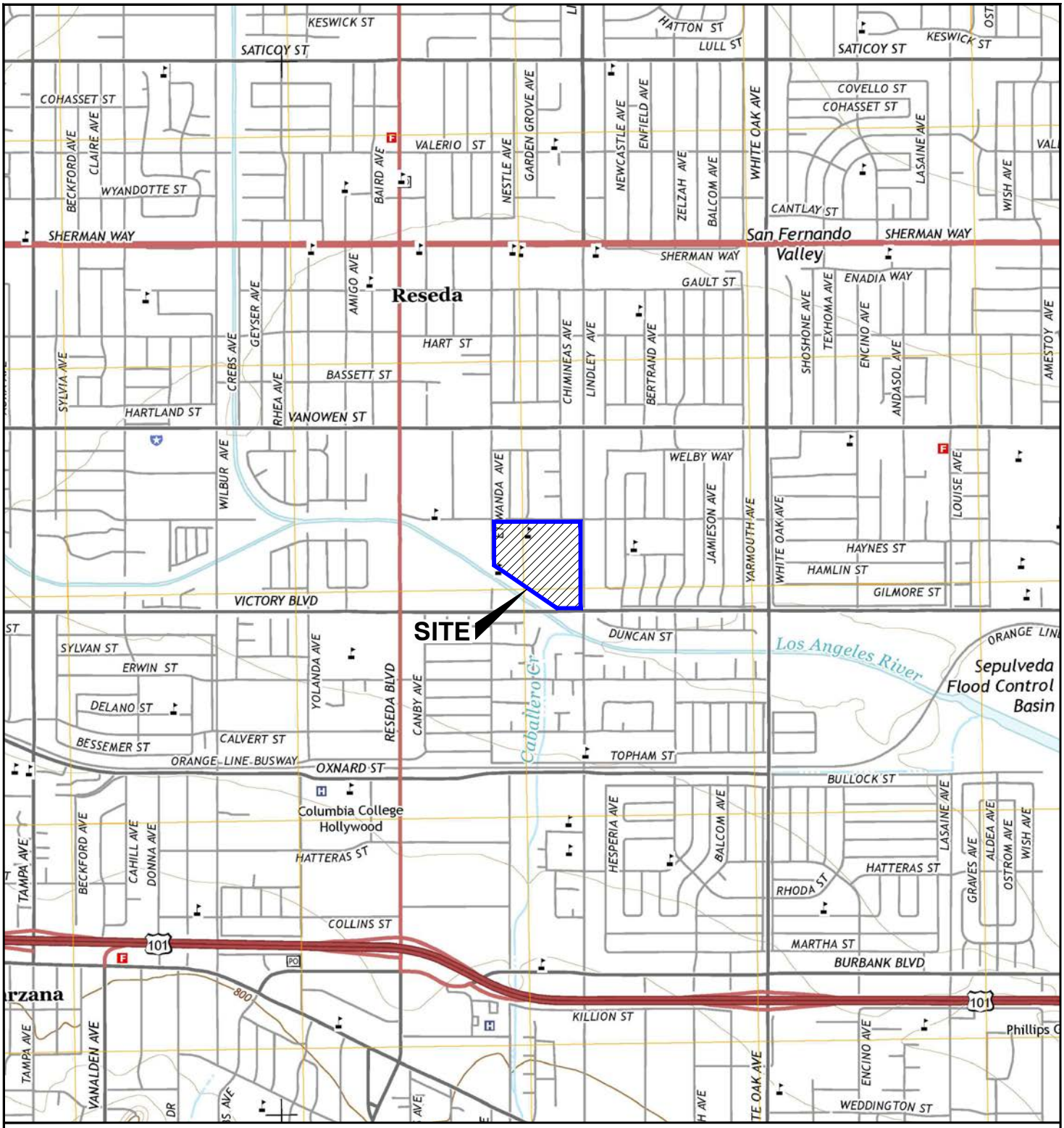
> *I declare that, to the best of my professional knowledge and belief, I meet the definition of Environmental Professional as defined by §312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the subject property. I have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.*

Anthony Lizzi
Principal Geologist

14 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONAL

Resumes, which document the professional qualifications, pursuant to 40 CFR §312.10(b)(2), of the persons that prepared and reviewed this report are provided as Appendix G.

FIGURES



LEGEND

SITE BOUNDARY

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: USGS, 2015.

N

FEET

0 2,000 4,000

210095004_SL.dwg 07/07/2017 JP

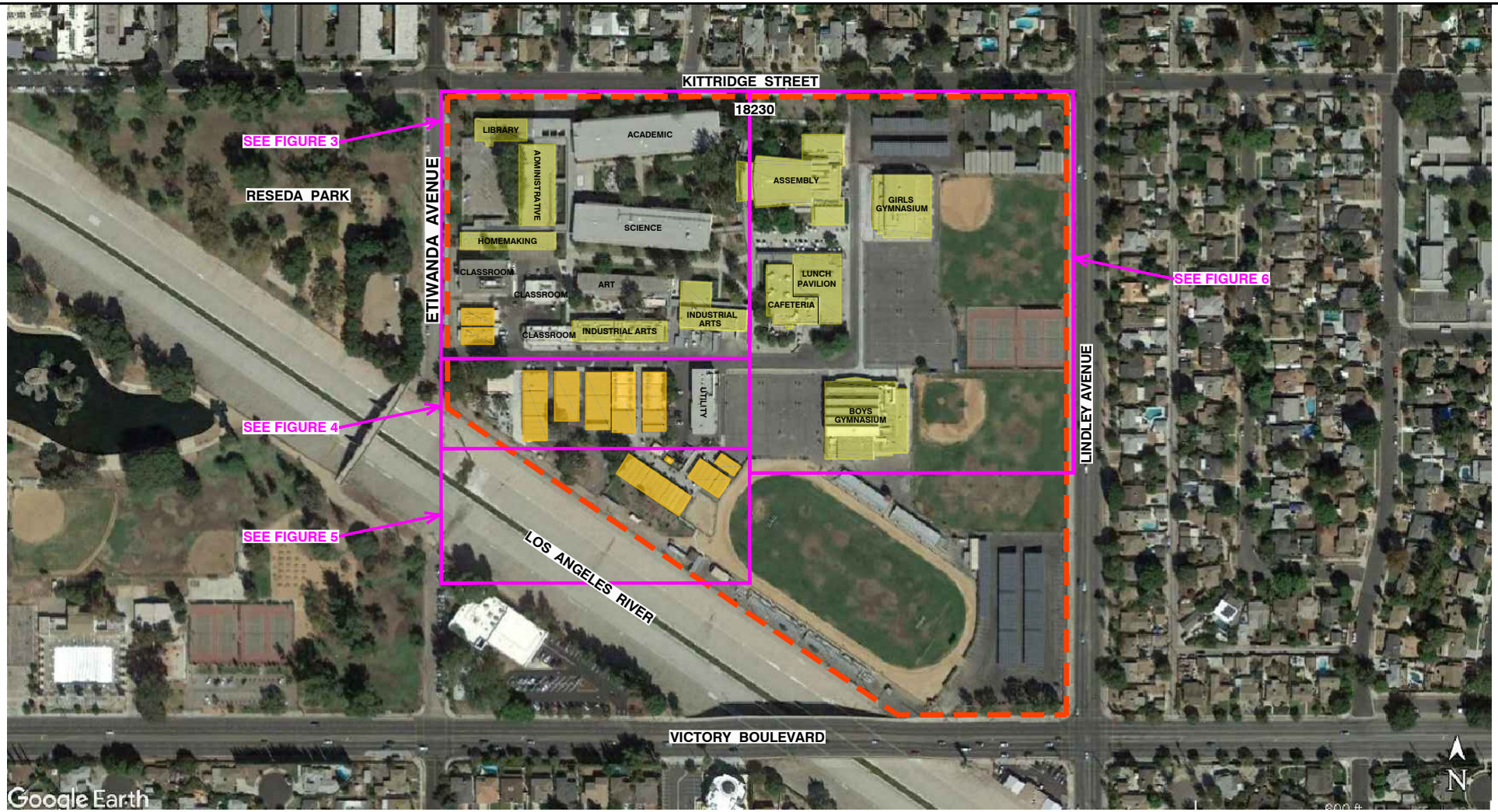
FIGURE 1

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

SITE LOCATION

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17



LEGEND

- SITE BOUNDARY
- BUILDING TO BE REMOVED
- PORTABLE (TO BE REMOVED)

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 300 600

FIGURE 2

BUILDING LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

210095004_BL.dwg 08/10/2017 JP

LEGEND

- T TRANSFORMER
- C CLARIFIER
- GT GREASE TRAP
- SITE BOUNDARY

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 300 600

FIGURE 3

SITE PLAN

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 7/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

210095004_SP.dwg 07/07/2017 JP

APPENDIX A

Photographic Documentation

Photograph 1: **View of entrance to Reseda High School (site), looking southeast from the sidewalk along Kittridge Street.**

Photograph 2: **View of the electrical enclosure in central portion of the site.**

Photograph 3: **View of an incinerator in the southwest portion of the site.**

Photograph 4: **View of a 3-stage clarifier (associated with former auto shop) in the central portion of the.**

Photograph 5: View of dumpsters noted in the central portion of the site.

Photograph 6: View of gasoline/ diesel drums and some propane cylinders within a flammable cabinet in the utility building on-site.

Photograph 7: **View of typical small quantity (less than 5-gallon) containers of cleaning supplies within the maintenance room in the utility building on-site.**

Photograph 8: **View of some paint cans within a closet in the utility building on-site.**

Photograph 9: **View of 5-gallon buckets of floor polish, in the utility building on-site.**

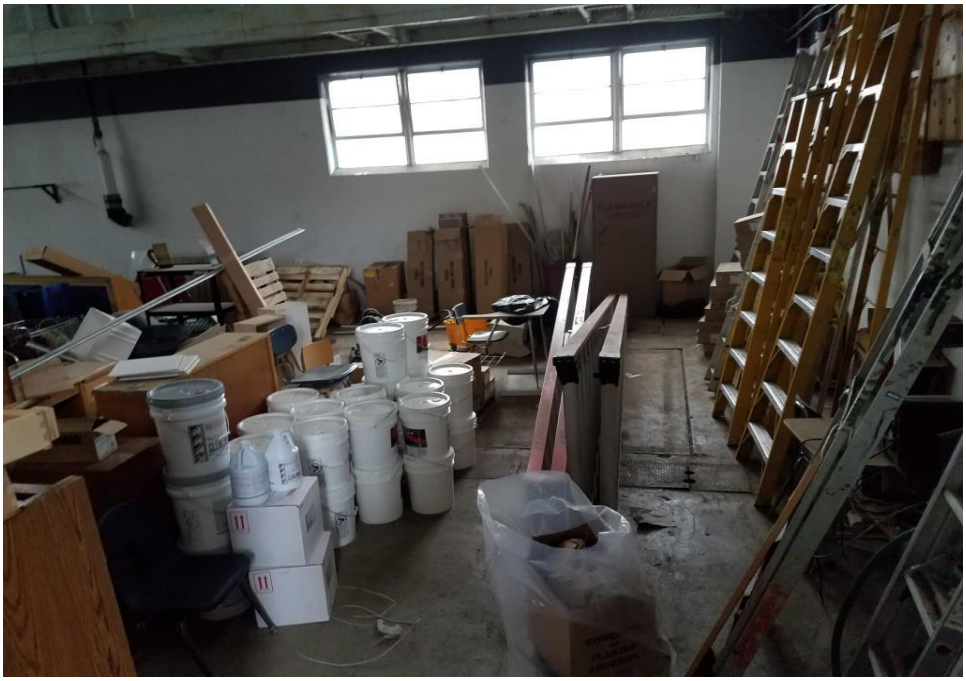
Photograph 10: **View of a typical tunnel underneath some on-site buildings for water lines.**

Photograph 11: **View of a grease interceptor noted within the kitchen of the cafeteria building.**

Photograph 12: **View of a catch basin under a sink within a ceramics classroom in the science building.**

Photograph 13: View of a typical classroom on-site.

Photograph 14: View of a gymnasium (former auto shop) on-site.



Photograph 15: **Overview of the former boiler room (currently used for miscellaneous storage) in the utility building on-site.**

Photograph 16: **View of residential properties to the north of the site, looking northeast from across Kittridge Street.**

Photograph 17: View of residential properties to the east of the site, looking south-east from across Lindley Avenue.

Photograph 18: View of Los Angeles River channel to the south of the site.

Photograph 19: View of commercial building to the south of the site, beyond the Los Angeles River channel and beyond which are commercial and residential properties.

Photograph 20: View of Reseda park to the west of the site, looking west from across Etiwanda Avenue.

APPENDIX B

Environmental Database Report
(Provided on CD)

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.2s
June 20, 2017

The EDR Radius Map™ Report with GeoCheck®

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION	PAGE
Executive Summary	ES1
Overview Map	2
Detail Map	3
Map Findings Summary	4
Map Findings	8
Orphan Summary	96
Government Records Searched/Data Currency Tracking	GR-1

GEOCHECK ADDENDUM

Physical Setting Source Addendum	A-1
Physical Setting Source Summary	A-2
Physical Setting SSURGO Soil Map	A-5
Physical Setting Source Map	A-7
Physical Setting Source Map Findings	A-9
Physical Setting Source Records Searched	PSGR-1

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

A search of available environmental records was conducted by Environmental Data Resources, Inc (EDR). The report was designed to assist parties seeking to meet the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13) or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

TARGET PROPERTY INFORMATION

ADDRESS

18230 KITTRIDGE STREET
RESEDA, CA 91335

COORDINATES

Latitude (North):	34.1887110 - 34° 11' 19.35''
Longitude (West):	118.5293650 - 118° 31' 45.71''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359070.1
UTM Y (Meters):	3783942.2
Elevation:	729 ft. above sea level

USGS TOPOGRAPHIC MAP ASSOCIATED WITH TARGET PROPERTY

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012

AERIAL PHOTOGRAPHY IN THIS REPORT

Portions of Photo from:	20140531
Source:	USDA

MAPPED SITES SUMMARY

Target Property Address:
18230 KITTRIDGE STREET
RESEDA, CA 91335

Click on Map ID to see full detail.

MAP ID	SITE NAME	ADDRESS	DATABASE ACRONYMS	RELATIVE ELEVATION	DIST (ft. & mi.) DIRECTION
A1	CITY OF LOS ANGELES	18230 KITTRIDGE ST	HAZNET		TP
A2	GREY CONTINUATION HI	18230 KITTRIDGE ST	FINDS, ECHO		TP
A3	LAUSD/RESEDA HIGH SC	18230 KITTRIDGE ST	HAZNET		TP
A4	LAUSD - RESEDA HIGH	18230 W KITTRIDGE ST	FINDS		TP
A5	GREY CONTINUATION HI	18230 KITTRIDGE ST	RCRA-LQG		TP
6	RESEDA PARK MTSE SER	6503 ETIWANDA AVE	SWEEPS UST, CA FID UST	Lower	54, 0.010, WNW
B7	AL LEONS UNOCAL 76	18102 VICTORY BLVD	RCRA-SQG	Lower	143, 0.027, SSE
B8	LEON AUTOMOTIVE CENT	18102 W VICTORY BLVD	LUST	Lower	143, 0.027, SSE
B9	UNION 76	18102 VICTORY BLVD	SWEEPS UST, CA FID UST, CHMIRS	Lower	143, 0.027, SSE
B10	A-1 UNION 76 SERVICE	18102 VICTORY BLVD	EDR Hist Auto	Lower	143, 0.027, SSE
11	REC AND PARKS	6503 ATIWANDA	HIST UST	Lower	311, 0.059, West
B12	LINDLEY AVENUE TRANS	6351 LINDLEY AVENUE	SWF/LF	Lower	367, 0.070, SSE
B13	LA ST MAINT TRANSFER	6351 LINDLEY AVE	RCRA-SQG, FINDS, ECHO	Lower	367, 0.070, SSE
14	NEWCASTLE AVENUE ELE	6520 NEWCASTLE AVE	RCRA-LQG	Lower	714, 0.135, ENE
C15	GVD COMMERCIAL PROPE	18300 VANOWEN ST	LUST	Higher	1199, 0.227, NNW
C16	GVD COMMERCIAL PROPE	18300 VANOWEN	HIST CORTESE	Higher	1199, 0.227, NNW
C17	RESEDA MARKETPLACE	18300 VANOWEN STREET	SLIC	Higher	1199, 0.227, NNW
D18	THE ANCHOR	6616 RESEDA BLVD	LUST, SWEEPS UST, CA FID UST	Higher	1275, 0.241, WNW
D19	UNICO AUTO BODY PAIN	1400 RESEDA BLVD	RCRA-SQG, FINDS, ECHO	Lower	1319, 0.250, WNW
E20	SHELL OIL CO	6360 RESEDA	LUST, RCRA NonGen / NLR, HIST CORTESE	Higher	1463, 0.277, WSW
D21	RESEDA DODGE	6625 RESEDA BLVD	RCRA-SQG, LUST, FINDS, ECHO, HAZNET	Higher	1519, 0.288, WNW
D22	RESEDA DODGE	6625 RESEDA BLVD	LUST, SWEEPS UST, CA FID UST, EMI	Higher	1519, 0.288, WNW
E23	MOBIL 18-KMM 12567	18510 VICTORY BLVD	LUST, HIST UST, CHMIRS	Higher	1670, 0.316, WSW
F24	EXXON SERVICE STATIO	6756 RESEDA	LUST, SWEEPS UST, HIST UST, HIST CORTESE	Higher	1800, 0.341, NW
F25	SHELL	6761 RESEDA	LUST, SWEEPS UST, HIST CORTESE	Higher	1891, 0.358, NW
26	VANOWEN CAR WASH	18514 VANOWEN ST	LUST, HIST UST, HIST CORTESE	Higher	2061, 0.390, NW
F27	ARCO #5041	6801 RESEDA	LUST, SWEEPS UST, HIST CORTESE	Higher	2074, 0.393, NW
28	PACIFIC BELL	6827 RESEDA BLVD	RCRA-SQG, LUST, UST, SWEEPS UST, HIST UST, CA FID...	Higher	2269, 0.430, NW
29	7027 CANBY AVENUE	7027 CANBY AVE.	ENVIROSTOR, SLIC, LA Co. Site Mitigation	Higher	3113, 0.590, NNW
30	LA JEWISH HOME FOR T	18855 VICTORY BLVD.	ENVIROSTOR	Higher	3780, 0.716, West
G31	COLUMBIA COLLEGE OF	18600 OXNARD STREET	ENVIROSTOR, VCP	Higher	3781, 0.716, SW
G32	NATIONAL HEAT TREATI	18600 OXNARD ST	RCRA-SQG, ENVIROSTOR, SWEEPS UST, HIST UST, CA FID...	Higher	3781, 0.716, SW

EXECUTIVE SUMMARY

TARGET PROPERTY SEARCH RESULTS

The target property was identified in the following records. For more information on this property see page 8 of the attached EDR Radius Map report:

Site	Database(s)	EPA ID
CITY OF LOS ANGELES 18230 KITTRIDGE ST RESEDA, CA 91335	HAZNET GEPAID: CAH777001579	N/A
GREY CONTINUATION HI 18230 KITTRIDGE ST RESEDA, CA 91335	FINDS Registry ID:: 110037379896 ECHO	N/A
LAUSD/RESEDA HIGH SC 18230 KITTRIDGE ST RESEDA, CA 91335	HAZNET GEPAID: CAD982039406	N/A
LAUSD - RESEDA HIGH 18230 W KITTRIDGE ST RESEDA, CA 91335	FINDS Registry ID:: 110066227684	N/A
GREY CONTINUATION HI 18230 KITTRIDGE ST RESEDA, CA 91335	RCRA-LQG EPA ID:: CAR000195099	CAR000195099

DATABASES WITH NO MAPPED SITES

No mapped sites were found in EDR's search of available ("reasonably ascertainable ") government records either on the target property or within the search radius around the target property for the following databases:

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL ---------- National Priority List
Proposed NPL ---------- Proposed National Priority List Sites
NPL LIENS ---------- Federal Superfund Liens

Federal Delisted NPL site list

Delisted NPL ---------- National Priority List Deletions

EXECUTIVE SUMMARY

Federal CERCLIS list

FEDERAL FACILITY..... Federal Facility Site Information listing
SEMS..... Superfund Enterprise Management System

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE..... Superfund Enterprise Management System Archive

Federal RCRA CORRACTS facilities list

CORRACTS..... Corrective Action Report

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF..... RCRA - Treatment, Storage and Disposal

Federal RCRA generators list

RCRA-CESQG..... RCRA - Conditionally Exempt Small Quantity Generator

Federal institutional controls / engineering controls registries

LUCIS..... Land Use Control Information System
US ENG CONTROLS..... Engineering Controls Sites List
US INST CONTROL..... Sites with Institutional Controls

Federal ERNS list

ERNS..... Emergency Response Notification System

State- and tribal - equivalent NPL

RESPONSE..... State Response Sites

State and tribal leaking storage tank lists

INDIAN LUST..... Leaking Underground Storage Tanks on Indian Land

State and tribal registered storage tank lists

FEMA UST..... Underground Storage Tank Listing
UST..... Active UST Facilities
AST..... Aboveground Petroleum Storage Tank Facilities
INDIAN UST..... Underground Storage Tanks on Indian Land

State and tribal voluntary cleanup sites

VCP..... Voluntary Cleanup Program Properties
INDIAN VCP..... Voluntary Cleanup Priority Listing

State and tribal Brownfields sites

BROWNFIELDS..... Considered Brownfieds Sites Listing

EXECUTIVE SUMMARY

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS ..... A Listing of Brownfields Sites

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT ..... Waste Management Unit Database
SWRCY ..... Recycler Database
HAULERS ..... Registered Waste Tire Haulers Listing
INDIAN ODI ..... Report on the Status of Open Dumps on Indian Lands
ODI ..... Open Dump Inventory
DEBRIS REGION 9 ..... Torres Martinez Reservation Illegal Dump Site Locations
IHS OPEN DUMPS ..... Open Dumps on Indian Land

Local Lists of Hazardous waste / Contaminated Sites

AOCONCERN ..... San Gabriel Valley Areas of Concern
US HIST CDL ..... Delisted National Clandestine Laboratory Register
HIST Cal-Sites ..... Historical Calsites Database
SCH ..... School Property Evaluation Program
CDL ..... Clandestine Drug Labs
Toxic Pits ..... Toxic Pits Cleanup Act Sites
US CDL ..... National Clandestine Laboratory Register

Local Land Records

LIENS ..... Environmental Liens Listing
LIENS 2 ..... CERCLA Lien Information
DEED ..... Deed Restriction Listing

Records of Emergency Release Reports

HMIRS ..... Hazardous Materials Information Reporting System
CHMIRS ..... California Hazardous Material Incident Report System
LDS ..... Land Disposal Sites Listing
MCS ..... Military Cleanup Sites Listing
SPILLS 90 ..... SPILLS 90 data from FirstSearch

Other Ascertainable Records

RCRA NonGen / NLR ..... RCRA - Non Generators / No Longer Regulated
FUDS ..... Formerly Used Defense Sites
DOD ..... Department of Defense Sites
SCRD DRYCLEANERS ..... State Coalition for Remediation of Drycleaners Listing
US FIN ASSUR ..... Financial Assurance Information
EPA WATCH LIST ..... EPA WATCH LIST
2020 COR ACTION ..... 2020 Corrective Action Program List
TSCA ..... Toxic Substances Control Act
TRIS ..... Toxic Chemical Release Inventory System
SSTS ..... Section 7 Tracking Systems
ROD ..... Records Of Decision

RMP	Risk Management Plans
RAATS	RCRA Administrative Action Tracking System
PRP	Potentially Responsible Parties
PADS	PCB Activity Database System
ICIS	Integrated Compliance Information System
FTTS	FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
MLTS	Material Licensing Tracking System
COAL ASH DOE	Steam-Electric Plant Operation Data
COAL ASH EPA	Coal Combustion Residues Surface Impoundments List
PCB TRANSFORMER	PCB Transformer Registration Database
RADINFO	Radiation Information Database
HIST FTTS	FIFRA/TSCA Tracking System Administrative Case Listing
DOT OPS	Incident and Accident Data
CONSENT	Superfund (CERCLA) Consent Decrees
INDIAN RESERV	Indian Reservations
FUSRAP	Formerly Utilized Sites Remedial Action Program
UMTRA	Uranium Mill Tailings Sites
LEAD SMELTERS	Lead Smelter Sites
US AIRS	Aerometric Information Retrieval System Facility Subsystem
US MINES	Mines Master Index File
ABANDONED MINES	Abandoned Mines
UXO	Unexploded Ordnance Sites
DOCKET HWC	Hazardous Waste Compliance Docket Listing
FUELS PROGRAM	EPA Fuels Program Registered Listing
CA BOND EXP. PLAN	Bond Expenditure Plan
Cortese	"Cortese" Hazardous Waste & Substances Sites List
CUPA Listings	CUPA Resources List
DRYCLEANERS	Cleaner Facilities
EMI	Emissions Inventory Data
ENF	Enforcement Action Listing
Financial Assurance	Financial Assurance Information Listing
ICE	ICE
LOS ANGELES CO. HMS	HMS: Street Number List
HWP	EnviroStor Permitted Facilities Listing
HWT	Registered Hazardous Waste Transporter Database
MINES	Mines Site Location Listing
MWMP	Medical Waste Management Program Listing
NPDES	NPDES Permits Listing
PEST LIC	Pesticide Regulation Licenses Listing
PROC	Certified Processors Database
Notify 65	Proposition 65 Records
LA Co. Site Mitigation	Site Mitigation List
UIC	UIC Listing
WASTEWATER PITS	Oil Wastewater Pits Listing
WDS	Waste Discharge System
WIP	Well Investigation Program Case List

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP	EDR Proprietary Manufactured Gas Plants
EDR Hist Cleaner	EDR Exclusive Historic Dry Cleaners

EXECUTIVE SUMMARY

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF ---------- Recovered Government Archive Solid Waste Facilities List
RGA LUST ---------- Recovered Government Archive Leaking Underground Storage Tank

SURROUNDING SITES: SEARCH RESULTS

Surrounding sites were identified in the following databases.

Elevations have been determined from the USGS Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified. Sites with an elevation equal to or higher than the target property have been differentiated below from sites with an elevation lower than the target property.
Page numbers and map identification numbers refer to the EDR Radius Map report where detailed data on individual sites can be reviewed.

Sites listed in ***bold italics*** are in multiple databases.

Unmappable (orphan) sites are not considered in the foregoing analysis.

STANDARD ENVIRONMENTAL RECORDS

Federal RCRA generators list

RCRA-LQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

A review of the RCRA-LQG list, as provided by EDR, and dated 12/12/2016 has revealed that there is 1 RCRA-LQG site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
NEWCASTLE AVENUE ELE	6520 NEWCASTLE AVE	ENE 1/8 - 1/4 (0.135 mi.)	14	24

RCRA-SQG: RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

A review of the RCRA-SQG list, as provided by EDR, and dated 12/12/2016 has revealed that there are 3 RCRA-SQG sites within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
AL LEONS UNOCAL 76	18102 VICTORY BLVD	SSE 0 - 1/8 (0.027 mi.)	B7	14
LA ST MAINT TRANSFER	***6351 LINDLEY AVE***	***SSE 0 - 1/8 (0.070 mi.)***	***B13***	***22***
UNICO AUTO BODY PAIN	***1400 RESEDA BLVD***	***WNW 1/8 - 1/4 (0.250 mi.)***	***D19***	***29***

State- and tribal - equivalent CERCLIS

ENVIROSTOR: The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

A review of the ENVIROSTOR list, as provided by EDR, and dated 01/30/2017 has revealed that there are 4 ENVIROSTOR sites within approximately 1 mile of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
7027 CANBY AVENUE Facility Id: 19281225 Status: Inactive - Action Required	***7027 CANBY AVE.***	***NNW 1/2 - 1 (0.590 mi.)***	***29***	***79***
LA JEWISH HOME FOR T Facility Id: 19800041 Status: No Action Required	18855 VICTORY BLVD.	W 1/2 - 1 (0.716 mi.)	30	81
COLUMBIA COLLEGE OF Facility Id: 60001214 Status: Active	***18600 OXNARD STREET***	***SW 1/2 - 1 (0.716 mi.)***	***G31***	***82***
NATIONAL HEAT TREATI Facility Id: 60002255 Status: Active	***18600 OXNARD ST***	***SW 1/2 - 1 (0.716 mi.)***	***G32***	***90***

State and tribal landfill and/or solid waste disposal site lists

SWF/LF: The Solid Waste Facilities/Landfill Sites records typically contain an inventory of solid waste disposal facilities or landfills in a particular state. The data come from the Integrated Waste Management Board's Solid Waste Information System (SWIS) database.

A review of the SWF/LF list, as provided by EDR, has revealed that there is 1 SWF/LF site within approximately 0.5 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
LINDLEY AVENUE TRANS Database: SWF/LF (SWIS), Date of Government Version: 02/13/2017 Facility ID: 19-AA-0808 Operational Status: Active Regulation Status: Notification	6351 LINDLEY AVENUE	SSE 0 - 1/8 (0.070 mi.)	B12	21

EXECUTIVE SUMMARY

State and tribal leaking storage tank lists

LUST: Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the LUST list, as provided by EDR, has revealed that there are 12 LUST sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GVD COMMERCIAL PROPE	18300 VANOWEN ST	NNW 1/8 - 1/4 (0.227 mi.)	C15	25
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: 913350907 Status: Preliminary site assessment workplan submitted Global ID: T0603702241				
THE ANCHOR	***6616 RESEDA BLVD***	***WNW 1/8 - 1/4 (0.241 mi.)***	***D18***	***27***
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603764849				
SHELL OIL CO	***6360 RESEDA***	***WSW 1/4 - 1/2 (0.277 mi.)***	***E20***	***31***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 913350925 Status: Leak being confirmed Global Id: T0603702243 Global ID: T0603702243				
RESEDA DODGE	***6625 RESEDA BLVD***	***WNW 1/4 - 1/2 (0.288 mi.)***	***D21***	***34***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Facility Id: 913350970 Status: Pollution Characterization Global ID: T0603790019				
RESEDA DODGE	***6625 RESEDA BLVD***	***WNW 1/4 - 1/2 (0.288 mi.)***	***D22***	***39***
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603790019				
MOBIL 18-KMM 12567	***18510 VICTORY BLVD***	***WSW 1/4 - 1/2 (0.316 mi.)***	***E23***	***47***
Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Global Id: T0603731796				
EXXON SERVICE STATIO	***6756 RESEDA***	***NW 1/4 - 1/2 (0.341 mi.)***	***F24***	***51***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed Facility Id: 913350707 Status: Case Closed Global Id: T0603702222 Global ID: T0603702222				
SHELL	***6761 RESEDA***	***NW 1/4 - 1/2 (0.358 mi.)***	***F25***	***55***
Database: LUST REG 4, Date of Government Version: 09/07/2004 Database: LUST, Date of Government Version: 03/13/2017 Status: Completed - Case Closed				

Facility Id: 913350716
Status: Pollution Characterization
Global Id: T0603702223
Global ID: T0603702223

VANOWEN CAR WASH ***18514 VANOWEN ST*** ***NW 1/4 - 1/2 (0.390 mi.)*** ***26*** ***63***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 913350861
Status: Case Closed
Global Id: T0603702237
Global ID: T0603702237

ARCO #5041 ***6801 RESEDA*** ***NW 1/4 - 1/2 (0.393 mi.)*** ***F27*** ***66***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 913350561
Status: Preliminary site assessment underway
Global Id: T0603702220
Global ID: T0603702220

PACIFIC BELL ***6827 RESEDA BLVD*** ***NW 1/4 - 1/2 (0.430 mi.)*** ***28*** ***73***
Database: LUST REG 4, Date of Government Version: 09/07/2004
Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Facility Id: 913350889
Status: Case Closed
Global Id: T0603702239
Global ID: T0603702239

Lower Elevation	Address	Direction / Distance	Map ID	Page
LEON AUTOMOTIVE CENT	18102 W VICTORY BLVD	SSE 0 - 1/8 (0.027 mi.)	B8	15

Database: LUST, Date of Government Version: 03/13/2017
Status: Completed - Case Closed
Global Id: T0603779044

SLIC: Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

A review of the SLIC list, as provided by EDR, has revealed that there is 1 SLIC site within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
RESEDA MARKETPLACE	18300 VANOWEN STREET	NNW 1/8 - 1/4 (0.227 mi.)	C17	26

Database: SLIC, Date of Government Version: 03/13/2017
Facility Status: Open - Eligible for Closure
Global Id: T10000004829

ADDITIONAL ENVIRONMENTAL RECORDS

Local Lists of Registered Storage Tanks

SWEEPS UST: Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

A review of the SWEEPS UST list, as provided by EDR, and dated 06/01/1994 has revealed that there are 3 SWEEPS UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE ANCHOR Comp Number: 5268	***6616 RESEDA BLVD***	***WNW 1/8 - 1/4 (0.241 mi.)***	***D18***	***27***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESEDA PARK MTSE SER Status: A Tank Status: A Comp Number: 2401	***6503 ETIWANDA AVE***	***WNW 0 - 1/8 (0.010 mi.)***	***6***	***13***
UNION 76 Status: A Comp Number: 5742	***18102 VICTORY BLVD***	***SSE 0 - 1/8 (0.027 mi.)***	***B9***	***17***

HIST UST: Historical UST Registered Database.

A review of the HIST UST list, as provided by EDR, and dated 10/15/1990 has revealed that there is 1 HIST UST site within approximately 0.25 miles of the target property.

Lower Elevation	Address	Direction / Distance	Map ID	Page
REC AND PARKS Facility Id: 00000047018	6503 ATIWANDA	W 0 - 1/8 (0.059 mi.)	11	21

CA FID UST: The Facility Inventory Database contains active and inactive underground storage tank locations. The source is the State Water Resource Control Board.

A review of the CA FID UST list, as provided by EDR, and dated 10/31/1994 has revealed that there are 3 CA FID UST sites within approximately 0.25 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
THE ANCHOR Facility Id: 19010278 Status: I	***6616 RESEDA BLVD***	***WNW 1/8 - 1/4 (0.241 mi.)***	***D18***	***27***

Lower Elevation	Address	Direction / Distance	Map ID	Page
RESEDA PARK MTSE SER	***6503 ETIWANDA AVE***	***WNW 0 - 1/8 (0.010 mi.)***	***6***	***13***

Facility Id: 19012804
Status: A

UNION 76	***18102 VICTORY BLVD***	***SSE 0 - 1/8 (0.027 mi.)***	***B9***	***17***
Facility Id: 19008301 Status: A				

Other Ascertainable Records

HIST CORTESE: The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

A review of the HIST CORTESE list, as provided by EDR, and dated 04/01/2001 has revealed that there are 7 HIST CORTESE sites within approximately 0.5 miles of the target property.

Equal/Higher Elevation	Address	Direction / Distance	Map ID	Page
GVD COMMERCIAL PROPE Reg Id: 913350907	18300 VANOWEN	NNW 1/8 - 1/4 (0.227 mi.)	C16	26
SHELL OIL CO Reg Id: 913350925	***6360 RESEDA***	***WSW 1/4 - 1/2 (0.277 mi.)***	***E20***	***31***
EXXON SERVICE STATIO Reg Id: 913350707	***6756 RESEDA***	***NW 1/4 - 1/2 (0.341 mi.)***	***F24***	***51***
SHELL Reg Id: 913350716	***6761 RESEDA***	***NW 1/4 - 1/2 (0.358 mi.)***	***F25***	***55***
VANOWEN CAR WASH Reg Id: 913350861	***18514 VANOWEN ST***	***NW 1/4 - 1/2 (0.390 mi.)***	***26***	***63***
ARCO #5041 Reg Id: 913350561	***6801 RESEDA***	***NW 1/4 - 1/2 (0.393 mi.)***	***F27***	***66***
PACIFIC BELL Reg Id: 913350889	***6827 RESEDA BLVD***	***NW 1/4 - 1/2 (0.430 mi.)***	***28***	***73***

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR Hist Auto: EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

A review of the EDR Hist Auto list, as provided by EDR, has revealed that there is 1 EDR Hist Auto

site within approximately 0.125 miles of the target property.

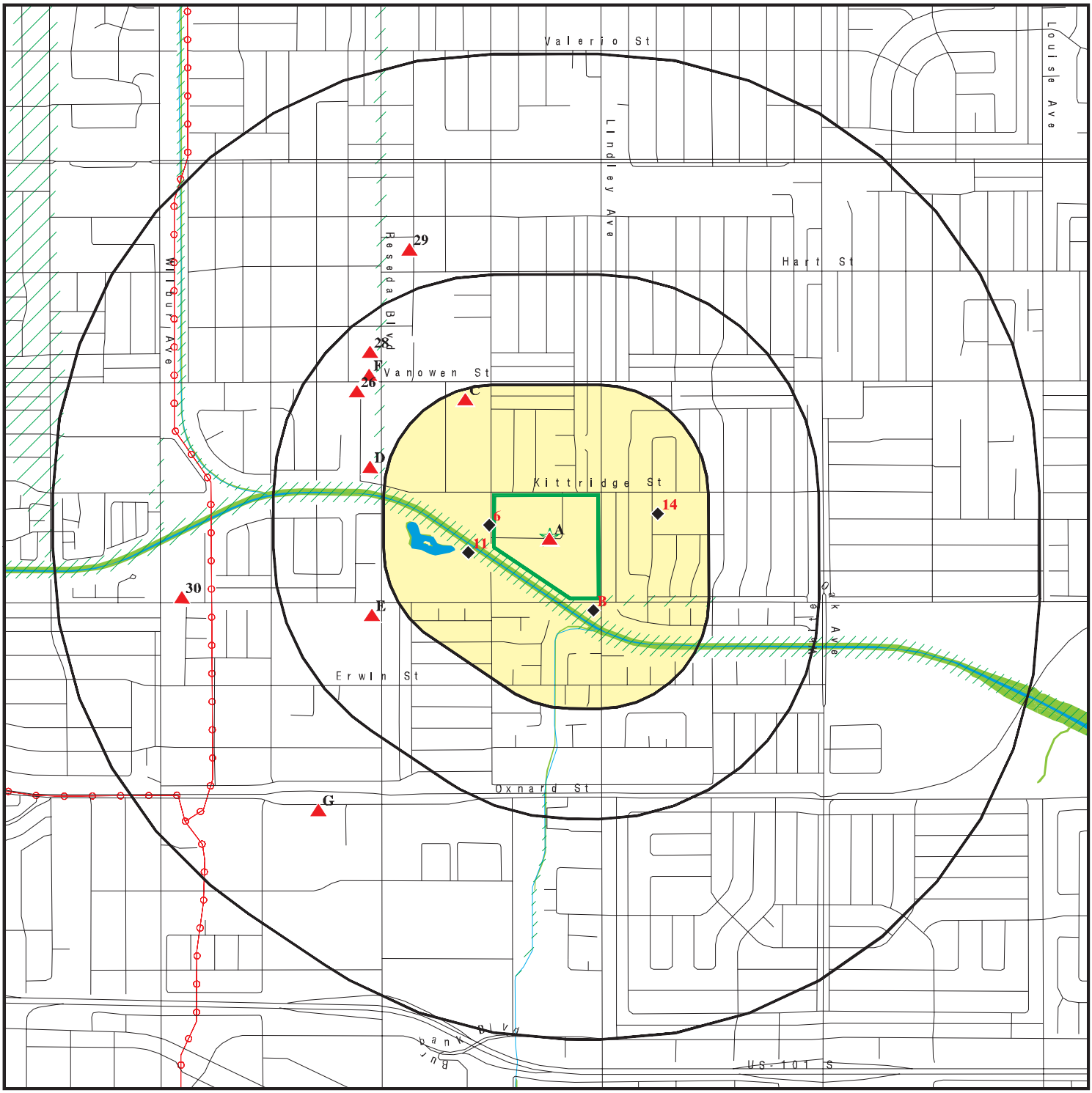
Lower Elevation	Address	Direction / Distance	Map ID	Page
A-1 UNION 76 SERVICE	18102 VICTORY BLVD	SSE 0 - 1/8 (0.027 mi.)	B10	20

EXECUTIVE SUMMARY

Due to poor or inadequate address information, the following sites were not mapped. Count: 4 records.

Site Name	Database(s)
LOEHMANN'S PLAZA	CDL
THRIFTY #133/ARCO #9584	SEMS-ARCHIVE
MTA - BURBANK BRANCH LINE B-15C	LUST
	SLIC

OVERVIEW MAP - 4971046.2S



0 1/4 1/2 1 Miles

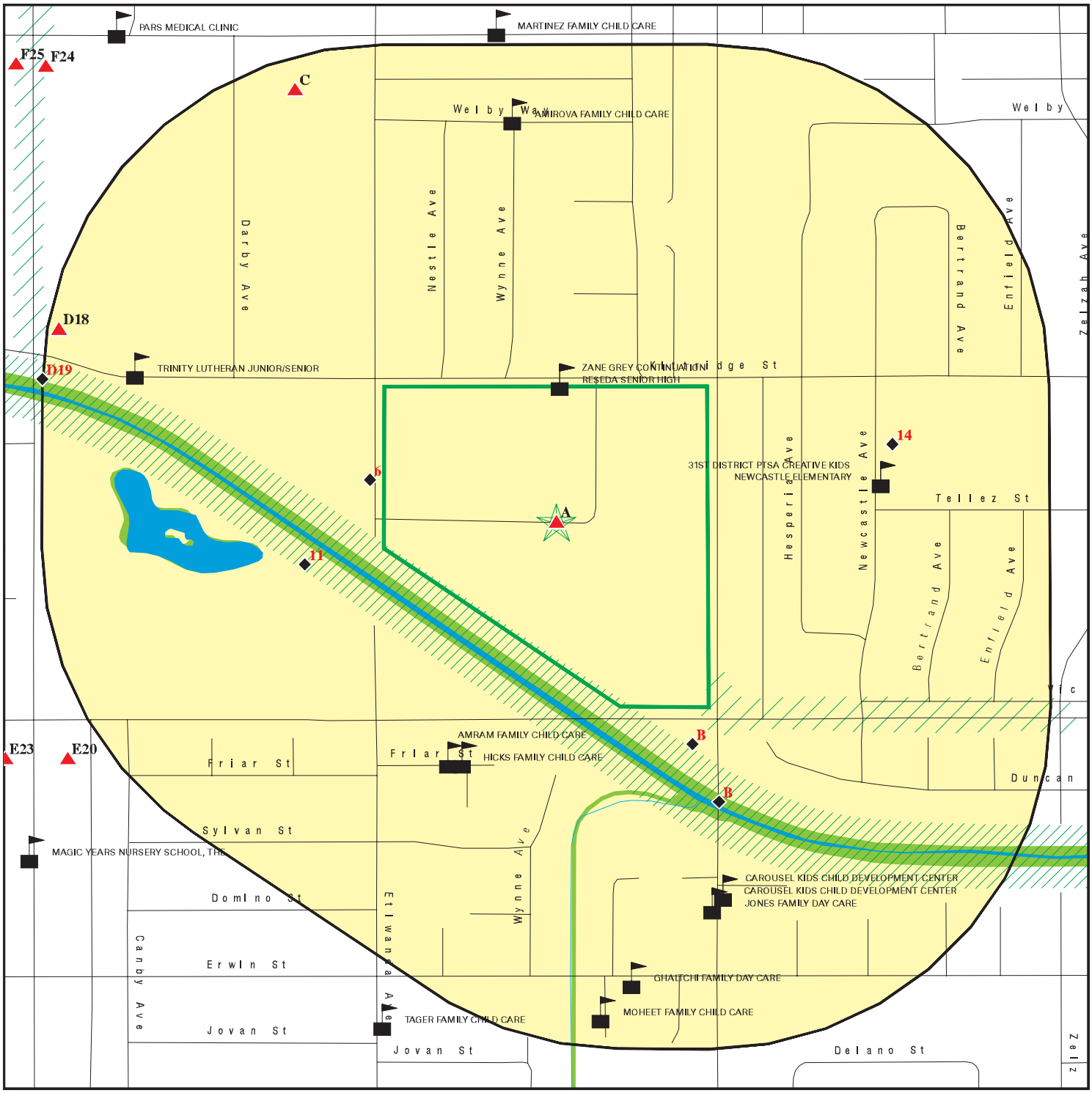
- Target Property
- Sites at elevations higher than or equal to the target property
- Sites at elevations lower than the target property
- Manufactured Gas Plants
- National Priority List Sites
- Dept. Defense Sites
- Indian Reservations BIA
- Power transmission lines
- 100-year flood zone
- 500-year flood zone
- National Wetland Inventory
- State Wetlands
- Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Reseda High School ADDRESS: 18230 Kittridge Street Reseda CA 91335 LAT/LONG: 34.188711 / 118.529365	CLIENT: Ninyo & Moore CONTACT: Manasi Chavan INQUIRY #: 4971046.2s DATE: June 20, 2017 3:32 pm

Copyright © 2017 EDR, Inc. © 2015 TomTom Rel. 2015.

DETAIL MAP - 4971046.2S



Target Property

Sites at elevations higher than or equal to the target property

Sites at elevations lower than the target property

Manufactured Gas Plants

Sensitive Receptors

National Priority List Sites

Dept. Defense Sites

0 1/16 1/8 1/4 Miles

Indian Reservations BIA

100-year flood zone

500-year flood zone

National Wetland Inventory

State Wetlands

Areas of Concern

This report includes Interactive Map Layers to display and/or hide map information. The legend includes only those icons for the default map view.

SITE NAME: Reseda High School	CLIENT: Ninyo & Moore
ADDRESS: 18230 Kittridge Street Reseda CA 91335	CONTACT: Manasi Chavan
LAT/LONG: 34.188711 / 118.529365	INQUIRY #: 4971046.2s DATE: June 20, 2017 3:34 pm

Copyright © 2017 EDR, Inc. © 2015 TomTom Rel. 2015.

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
STANDARD ENVIRONMENTAL RECORDS								
Federal NPL site list								
NPL	1.000		0	0	0	0	NR	0
Proposed NPL	1.000		0	0	0	0	NR	0
NPL LIENS	TP		NR	NR	NR	NR	NR	0
Federal Delisted NPL site list								
Delisted NPL	1.000		0	0	0	0	NR	0
Federal CERCLIS list								
FEDERAL FACILITY	0.500		0	0	0	NR	NR	0
SEMS	0.500		0	0	0	NR	NR	0
Federal CERCLIS NFRAP site list								
SEMS-ARCHIVE	0.500		0	0	0	NR	NR	0
Federal RCRA CORRACTS facilities list								
CORRACTS	1.000		0	0	0	0	NR	0
Federal RCRA non-CORRACTS TSD facilities list								
RCRA-TSDF	0.500		0	0	0	NR	NR	0
Federal RCRA generators list								
RCRA-LQG	0.250	1	0	1	NR	NR	NR	2
RCRA-SQG	0.250		2	1	NR	NR	NR	3
RCRA-CESQG	0.250		0	0	NR	NR	NR	0
Federal institutional controls / engineering controls registries								
LUCIS	0.500		0	0	0	NR	NR	0
US ENG CONTROLS	0.500		0	0	0	NR	NR	0
US INST CONTROL	0.500		0	0	0	NR	NR	0
Federal ERNS list								
ERNS	TP		NR	NR	NR	NR	NR	0
State- and tribal - equivalent NPL								
RESPONSE	1.000		0	0	0	0	NR	0
State- and tribal - equivalent CERCLIS								
ENVIROSTOR	1.000		0	0	0	4	NR	4
State and tribal landfill and/or solid waste disposal site lists								
SWF/LF	0.500		1	0	0	NR	NR	1
State and tribal leaking storage tank lists								
LUST	0.500		1	2	9	NR	NR	12

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
INDIAN LUST	0.500		0	0	0	NR	NR	0
SLIC	0.500		0	1	0	NR	NR	1
State and tribal registered storage tank lists								
FEMA UST	0.250		0	0	NR	NR	NR	0
UST	0.250		0	0	NR	NR	NR	0
AST	0.250		0	0	NR	NR	NR	0
INDIAN UST	0.250		0	0	NR	NR	NR	0
State and tribal voluntary cleanup sites								
VCP	0.500		0	0	0	NR	NR	0
INDIAN VCP	0.500		0	0	0	NR	NR	0
State and tribal Brownfields sites								
BROWNFIELDS	0.500		0	0	0	NR	NR	0
ADDITIONAL ENVIRONMENTAL RECORDS								
Local Brownfield lists								
US BROWNFIELDS	0.500		0	0	0	NR	NR	0
Local Lists of Landfill / Solid Waste Disposal Sites								
WMUDS/SWAT	0.500		0	0	0	NR	NR	0
SWRCY	0.500		0	0	0	NR	NR	0
HAULERS	TP		NR	NR	NR	NR	NR	0
INDIAN ODI	0.500		0	0	0	NR	NR	0
ODI	0.500		0	0	0	NR	NR	0
DEBRIS REGION 9	0.500		0	0	0	NR	NR	0
IHS OPEN DUMPS	0.500		0	0	0	NR	NR	0
Local Lists of Hazardous waste / Contaminated Sites								
AOCONCERN	1.000		0	0	0	0	NR	0
US HIST CDL	TP		NR	NR	NR	NR	NR	0
HIST Cal-Sites	1.000		0	0	0	0	NR	0
SCH	0.250		0	0	NR	NR	NR	0
CDL	TP		NR	NR	NR	NR	NR	0
Toxic Pits	1.000		0	0	0	0	NR	0
US CDL	TP		NR	NR	NR	NR	NR	0
Local Lists of Registered Storage Tanks								
SWEEPS UST	0.250		2	1	NR	NR	NR	3
HIST UST	0.250		1	0	NR	NR	NR	1
CA FID UST	0.250		2	1	NR	NR	NR	3
Local Land Records								
LIENS	TP		NR	NR	NR	NR	NR	0
LIENS 2	TP		NR	NR	NR	NR	NR	0
DEED	0.500		0	0	0	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
Records of Emergency Release Reports								
HMIRS	TP		NR	NR	NR	NR	NR	0
CHMIRS	TP		NR	NR	NR	NR	NR	0
LDS	TP		NR	NR	NR	NR	NR	0
MCS	TP		NR	NR	NR	NR	NR	0
SPILLS 90	TP		NR	NR	NR	NR	NR	0
Other Ascertainable Records								
RCRA NonGen / NLR	0.250		0	0	NR	NR	NR	0
FUDS	1.000		0	0	0	0	NR	0
DOD	1.000		0	0	0	0	NR	0
SCRD DRYCLEANERS	0.500		0	0	0	NR	NR	0
US FIN ASSUR	TP		NR	NR	NR	NR	NR	0
EPA WATCH LIST	TP		NR	NR	NR	NR	NR	0
2020 COR ACTION	0.250		0	0	NR	NR	NR	0
TSCA	TP		NR	NR	NR	NR	NR	0
TRIS	TP		NR	NR	NR	NR	NR	0
SSTS	TP		NR	NR	NR	NR	NR	0
ROD	1.000		0	0	0	0	NR	0
RMP	TP		NR	NR	NR	NR	NR	0
RAATS	TP		NR	NR	NR	NR	NR	0
PRP	TP		NR	NR	NR	NR	NR	0
PADS	TP		NR	NR	NR	NR	NR	0
ICIS	TP		NR	NR	NR	NR	NR	0
FTTS	TP		NR	NR	NR	NR	NR	0
MLTS	TP		NR	NR	NR	NR	NR	0
COAL ASH DOE	TP		NR	NR	NR	NR	NR	0
COAL ASH EPA	0.500		0	0	0	NR	NR	0
PCB TRANSFORMER	TP		NR	NR	NR	NR	NR	0
RADINFO	TP		NR	NR	NR	NR	NR	0
HIST FTTS	TP		NR	NR	NR	NR	NR	0
DOT OPS	TP		NR	NR	NR	NR	NR	0
CONSENT	1.000		0	0	0	0	NR	0
INDIAN RESERV	1.000		0	0	0	0	NR	0
FUSRAP	1.000		0	0	0	0	NR	0
UMTRA	0.500		0	0	0	NR	NR	0
LEAD SMELTERS	TP		NR	NR	NR	NR	NR	0
US AIRS	TP		NR	NR	NR	NR	NR	0
US MINES	0.250		0	0	NR	NR	NR	0
ABANDONED MINES	0.500		0	0	0	NR	NR	0
FINDS	TP	2	NR	NR	NR	NR	NR	2
UXO	1.000		0	0	0	0	NR	0
DOCKET HWC	TP		NR	NR	NR	NR	NR	0
ECHO	TP	1	NR	NR	NR	NR	NR	1
FUELS PROGRAM	0.250		0	0	NR	NR	NR	0
CA BOND EXP. PLAN	1.000		0	0	0	0	NR	0
Cortese	0.500		0	0	0	NR	NR	0
CUPA Listings	0.250		0	0	NR	NR	NR	0
DRYCLEANERS	0.250		0	0	NR	NR	NR	0
EMI	TP		NR	NR	NR	NR	NR	0

MAP FINDINGS SUMMARY

Database	Search Distance (Miles)	Target Property	< 1/8	1/8 - 1/4	1/4 - 1/2	1/2 - 1	> 1	Total Plotted
ENF	TP		NR	NR	NR	NR	NR	0
Financial Assurance	TP		NR	NR	NR	NR	NR	0
HAZNET	TP	2	NR	NR	NR	NR	NR	2
ICE	TP		NR	NR	NR	NR	NR	0
HIST CORTESE	0.500		0	1	6	NR	NR	7
LOS ANGELES CO. HMS	TP		NR	NR	NR	NR	NR	0
HWP	1.000		0	0	0	0	NR	0
HWT	0.250		0	0	NR	NR	NR	0
MINES	TP		NR	NR	NR	NR	NR	0
MWMP	0.250		0	0	NR	NR	NR	0
NPDES	TP		NR	NR	NR	NR	NR	0
PEST LIC	TP		NR	NR	NR	NR	NR	0
PROC	0.500		0	0	0	NR	NR	0
Notify 65	1.000		0	0	0	0	NR	0
LA Co. Site Mitigation	TP		NR	NR	NR	NR	NR	0
UIC	TP		NR	NR	NR	NR	NR	0
WASTEWATER PITS	0.500		0	0	0	NR	NR	0
WDS	TP		NR	NR	NR	NR	NR	0
WIP	0.250		0	0	NR	NR	NR	0
EDR HIGH RISK HISTORICAL RECORDS								
EDR Exclusive Records								
EDR MGP	1.000		0	0	0	0	NR	0
EDR Hist Auto	0.125		1	NR	NR	NR	NR	1
EDR Hist Cleaner	0.125		0	NR	NR	NR	NR	0
EDR RECOVERED GOVERNMENT ARCHIVES								
Exclusive Recovered Govt. Archives								
RGA LF	TP		NR	NR	NR	NR	NR	0
RGA LUST	TP		NR	NR	NR	NR	NR	0
- Totals --		6	10	8	15	4	0	43

NOTES:

TP = Target Property

NR = Not Requested at this Search Distance

Sites may be listed in more than one database

A1 **CITY OF LOS ANGELES - DPW - BUREAU SANIT** **HAZNET** **S113021530**
Target **18230 KITTRIDGE ST** **N/A**
Property **RESEDA, CA 91335**

Site 1 of 5 in cluster A

Actual:
729 ft.

HAZNET:

envid:	S113021530
Year:	2005
GEPAID:	CAH777001579
Contact:	JAMES H LEE
Telephone:	2134738224
Mailing Name:	Not reported
Mailing Address:	433 S SPRING ST STE 500
Mailing City,St,Zip:	LOS ANGELES, CA 900130000
Gen County:	Not reported
TSD EPA ID:	WAD991281767
TSD County:	Not reported
Waste Category:	Household waste
Disposal Method:	Recycler
Tons:	2.37
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113021530
Year:	2005
GEPAID:	CAH777001579
Contact:	JAMES H LEE
Telephone:	2134738224
Mailing Name:	Not reported
Mailing Address:	433 S SPRING ST STE 500
Mailing City,St,Zip:	LOS ANGELES, CA 900130000
Gen County:	Not reported
TSD EPA ID:	WAD991281767
TSD County:	Not reported
Waste Category:	Household waste
Disposal Method:	Treatment, Tank
Tons:	1.62
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	S113021530
Year:	2005
GEPAID:	CAH777001579
Contact:	JAMES H LEE
Telephone:	2134738224
Mailing Name:	Not reported
Mailing Address:	433 S SPRING ST STE 500
Mailing City,St,Zip:	LOS ANGELES, CA 900130000
Gen County:	Not reported
TSD EPA ID:	WAD991281767
TSD County:	Not reported
Waste Category:	Household waste
Disposal Method:	Not reported
Tons:	3
Cat Decode:	Not reported
Method Decode:	Not reported

CITY OF LOS ANGELES - DPW - BUREAU SANIT (Continued) **S113021530**

Facility County: Los Angeles

envid: S113021530
Year: 2005
GEPAID: CAH777001579
Contact: JAMES H LEE
Telephone: 2134738224
Mailing Name: Not reported
Mailing Address: 433 S SPRING ST STE 500
Mailing City,St,Zip: LOS ANGELES, CA 900130000
Gen County: Not reported
TSD EPA ID: WAD991281767
TSD County: Not reported
Waste Category: Household waste
Disposal Method: Treatment, Incineration
Tons: 1.95
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

envid: S113021530
Year: 2005
GEPAID: CAH777001579
Contact: JAMES H LEE
Telephone: 2134738224
Mailing Name: Not reported
Mailing Address: 433 S SPRING ST STE 500
Mailing City,St,Zip: LOS ANGELES, CA 900130000
Gen County: Not reported
TSD EPA ID: CAD981696420
TSD County: Not reported
Waste Category: Household waste
Disposal Method: Transfer Station
Tons: 2
Cat Decode: Not reported
Method Decode: Not reported
Facility County: Los Angeles

Click this hyperlink while viewing on your computer to access
2 additional CA_HAZNET: record(s) in the EDR Site Report.

A2 **GREY CONTINUATION HIGH SCHOOL** **FINDS** **1011918070**
Target **18230 KITTRIDGE ST** **ECHO** **N/A**
Property **RESEDA, CA 91335**

Site 2 of 5 in cluster A

Actual: 729 ft.

FINDS:

Registry ID: 110037379896

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

GREY CONTINUATION HIGH SCHOOL (Continued) **1011918070**

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1011918070
Registry ID:	110037379896
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110037379896

A3 **LAUSD/RESEDA HIGH SCHOOL** **HAZNET** **S113013228**
Target **18230 KITTRIDGE ST** **N/A**
Property **RESEDA, CA 91335**

Site 3 of 5 in cluster A

Actual: 729 ft.

HAZNET:

envid:	S113013228
Year:	2013
GEPAID:	CAD982039406
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	NMD002208627
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.36
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113013228
Year:	2013
GEPAID:	CAD982039406
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	NMD002208627
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.552
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113013228
Year:	2013
GEPAID:	CAD982039406

LAUSD/RESEDA HIGH SCHOOL (Continued) **S113013228**

Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	UTD981552177
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Incineration--Thermal Destruction Other Than Use As A Fuel
Tons:	0.067
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113013228
Year:	2013
GEPAID:	CAD982039406
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	NMD002208627
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.0645
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

envid:	S113013228
Year:	2013
GEPAID:	CAD982039406
Contact:	SOE AUNG
Telephone:	2137455939
Mailing Name:	Not reported
Mailing Address:	333 S BEAUNDRY AVE 28TH FLR
Mailing City,St,Zip:	LOS ANGELES, CA 900170000
Gen County:	Los Angeles
TSD EPA ID:	TXD982290140
TSD County:	99
Waste Category:	Not reported
Disposal Method:	Storage, Bulking, And/Or Transfer Off Site--No Treatment/Reovery (H010-H129) Or (H131-H135)
Tons:	0.005
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Not reported

Click this hyperlink while viewing on your computer to access
32 additional CA_HAZNET: record(s) in the EDR Site Report.

A4 **LAUSD - RESEDA HIGH SCHOOL** **FINDS** **1023328377**
Target **18230 W KITTRIDGE ST** **N/A**
Property **RESEDA, CA 91335**

Site 4 of 5 in cluster A

Actual: 729 ft.

FINDS:

Registry ID: 110066227684

Environmental Interest/Information System
STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

A5 **GREY CONTINUATION HIGH SCHOOL** **RCRA-LQG** **1011861581**
Target **18230 KITTRIDGE ST** **CAR000195099**
Property **RESEDA, CA 91335**

Site 5 of 5 in cluster A

Actual: 729 ft.

RCRA-LQG:

Date form received by agency:	09/11/2008
Facility name:	GREY CONTINUATION HIGH SCHOOL
Facility address:	18230 KITTRIDGE ST RESEDA, CA 91335
EPA ID:	CAR000195099
Mailing address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS LOS ANGELES, CA 90017
Contact country:	US
Contact telephone:	213-241-3904
Contact email:	SOE.AUNG@LAUSD.NET
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LOS ANGELES UNIFIED SCHOOL DIST
Owner/operator address:	333 S BEAUDRY AVE LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported

GREY CONTINUATION HIGH SCHOOL (Continued) **1011861581**

Legal status: District
Owner/Operator Type: Owner
Owner/Op start date: 11/14/1989
Owner/Op end date: Not reported

Owner/operator name: GREY CONTINUATION HIGH SCHOOL
Owner/operator address: Not reported
Not reported
Owner/operator country: Not reported
Owner/operator telephone: Not reported
Legal status: District
Owner/Operator Type: Operator
Owner/Op start date: 11/14/1989
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

---

6 **RESEDA PARK MTSE SER YARD** **SWEEPS UST** **S101584555**
WNW **6503 ETIWANDA AVE** **CA FID UST** **N/A**
< 1/8 **RESEDA, CA 91335**
0.010 mi.
54 ft.

Relative:
Lower

Actual:
728 ft.

SWEEPS UST:
Status: Active
Comp Number: 2401
Number: 4
Board Of Equalization: 44-012042
Referral Date: 02-12-93
Action Date: 04-18-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002401-000001
Tank Status: A
Capacity: 280
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P

RESEDA PARK MTSE SER YARD (Continued) **S101584555**

Content: REG UNLEADED
Number Of Tanks: 1

CA FID UST:
Facility ID: 19012804
Regulated By: UTNKA
Regulated ID: 00047018
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 2134855846
Mail To: Not reported
Mailing Address: 200 N MAIN STREET-ROOM
Mailing Address 2: Not reported
Mailing City,St,Zip: RESEDA 913350000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

B7 **AL LEONS UNOCAL 76** **RCRA-SQG** **1000280250**
SSE **18102 VICTORY BLVD** **CAD982321317**
< 1/8 **RESEDA, CA 91335**
0.027 mi.
143 ft. **Site 1 of 6 in cluster B**

Relative:
Lower

Actual:
724 ft.

RCRA-SQG:
Date form received by agency: 03/16/1988
Facility name: AL LEONS UNOCAL 76
Facility address: 18102 VICTORY BLVD
RESEDA, CA 91335
EPA ID: CAD982321317
Mailing address: VICTORY BLVD
RESEDA, CA 91335
Contact: ENVIRONMENTAL MANAGER
Contact address: 18102 VICTORY BLVD
RESEDA, CA 91335
Contact country: US
Contact telephone: (818) 705-2291
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: LEON GOTLIB
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private

AL LEONS UNOCAL 76 (Continued) **1000280250**

Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

B8 **LEON AUTOMOTIVE CENTER INC.** **LUST** **S109117664**
SSE **18102 W VICTORY BLVD** **N/A**
< 1/8 **RESEDA, CA 91335**
0.027 mi.
143 ft. **Site 2 of 6 in cluster B**

Relative:
Lower

Actual:
724 ft.

LUST:
Region: STATE
Global Id: T0603779044
Latitude: 34.186301
Longitude: -118.527676
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 01/15/2016
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: MT
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913351016
LOC Case Number: XS0001786
File Location: Regional Board
Potential Media Affect: Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern: MTBE / TBA / Other Fuel Oxygenates
Site History: Not reported

LEON AUTOMOTIVE CENTER INC. (Continued) **S109117664**

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603779044
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603779044
Contact Type:	Regional Board Caseworker
Contact Name:	MARYAM TAIDY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mtaidy@waterboards.ca.gov
Phone Number:	2135766741

Status History:

Global Id:	T0603779044
Status:	Completed - Case Closed
Status Date:	01/15/2016

Global Id:	T0603779044
Status:	Open - Case Begin Date
Status Date:	07/14/2000

Global Id:	T0603779044
Status:	Open - Eligible for Closure
Status Date:	06/06/2013

Global Id:	T0603779044
Status:	Open - Referred
Status Date:	09/24/2008

Global Id:	T0603779044
Status:	Open - Site Assessment
Status Date:	10/29/2007

Global Id:	T0603779044
Status:	Open - Site Assessment
Status Date:	11/25/2008

Regulatory Activities:

Global Id:	T0603779044
Action Type:	RESPONSE
Date:	07/15/2011
Action:	Monitoring Report - Semi-Annually

Global Id:	T0603779044
Action Type:	RESPONSE
Date:	12/24/2008
Action:	Other Report / Document

LEON AUTOMOTIVE CENTER INC. (Continued) **S109117664**

Global Id:	T0603779044
Action Type:	RESPONSE
Date:	01/11/2016
Action:	Well Destruction Report
Global Id:	T0603779044
Action Type:	ENFORCEMENT
Date:	02/07/2014
Action:	Notification - Preclosure
Global Id:	T0603779044
Action Type:	ENFORCEMENT
Date:	01/15/2016
Action:	Closure/No Further Action Letter
Global Id:	T0603779044
Action Type:	RESPONSE
Date:	07/15/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603779044
Action Type:	Other
Date:	08/20/2000
Action:	Leak Reported
Global Id:	T0603779044
Action Type:	RESPONSE
Date:	01/15/2012
Action:	Monitoring Report - Semi-Annually
Global Id:	T0603779044
Action Type:	Other
Date:	07/14/2000
Action:	Leak Discovery
Global Id:	T0603779044
Action Type:	ENFORCEMENT
Date:	11/26/2008
Action:	Staff Letter

B9 **UNION 76** **SWEEPS UST** **S101584073**
SSE **18102 VICTORY BLVD** **CA FID UST** **N/A**
< 1/8 **RESEDA, CA 91335** **CHMIRS**
0.027 mi.
143 ft. **Site 3 of 6 in cluster B**

Relative:
Lower

Actual:
724 ft.

SWEEPS UST:

Status:	Active
Comp Number:	5742
Number:	1
Board Of Equalization:	Not reported
Referral Date:	09-28-93
Action Date:	09-28-93
Created Date:	02-29-88
Owner Tank Id:	Not reported
SWRCB Tank Id:	Not reported
Tank Status:	Not reported

UNION 76 (Continued) **S101584073**

Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: Not reported

CA FID UST:
Facility ID: 19008301
Regulated By: UTNKA
Regulated ID: Not reported
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8187052288
Mail To: Not reported
Mailing Address: 18102 VICTORY BLVD
Mailing Address 2: Not reported
Mailing City,St,Zip: RESEDA 913350000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

CHMIRS:
OES Incident Number: 16-4455
OES notification: 07/22/2016
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported
Company Name: Not reported
Reporting Officer Name/ID: Not reported
Report Date: Not reported
Facility Telephone: Not reported

UNION 76 (Continued) **S101584073**

Waterway Involved:	Yes
Waterway:	Los Angeles River
Spill Site:	Merchant/Business
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Type:	CHEMICAL
Measure:	Gal(s)
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Type:	PETROLEUM
Measure:	Gal(s)
Other:	Not reported
Date/Time:	1500
Year:	2016
Agency:	NRC
Incident Date:	07/21/2016
Admin Agency:	Los Angeles City Fire Department
Amount:	Not reported
Contained:	No
Site Type:	Los Angeles River
E Date:	Not reported
Substance:	Ethylene Glycol
Quantity Released:	7
Unknown:	Not reported
Substance #2:	oil- motor 7
Substance #3:	oil-other oil-other
Evacuations:	Not reported
Number of Injuries:	Not reported
Number of Fatalities:	Not reported
#1 Pipeline:	No
#2 Pipeline:	No
#3 Pipeline:	No
#1 Vessel >= 300 Tons:	No
#2 Vessel >= 300 Tons:	No
#3 Vessel >= 300 Tons:	No
Evacs:	No
Injuries:	No
Fatals:	No
Comments:	Not reported
Description:	Per NRC Report: Caller reported that an auto shop is dumping motor oil, transmission fluid, and antifreeze into the sewer system every day.

B10
SSE
< 1/8
0.027 mi.
143 ft.

A-1 UNION 76 SERVICE STATION
18102 VICTORY BLVD
RESEDA, CA 91335

Site 4 of 6 in cluster B

EDR Hist Auto **1021234356**
N/A

Relative:
Lower

Actual:
724 ft.

EDR Hist Auto

Year:	Name:	Type:
1969	DE FUSCO PAT J	Gasoline Service Stations
1969	DE FUSCO PAT J	Gasoline Service Stations
1970	DE FUSCO PAT J	Gasoline Service Stations
1972	TOMMYS TEXACO	Gasoline Service Stations
1980	AUTO CINIC	General Automotive Repair Shops
1985	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1986	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1987	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1988	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1989	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1990	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1991	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1992	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1993	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1994	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1995	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1996	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1997	A1 LEONS UNOCAL	General Automotive Repair Shops
1997	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1998	A1 LEONS UNOCAL	General Automotive Repair Shops
1998	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
1999	A1 LEONS UNOCAL	General Automotive Repair Shops
1999	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
2000	A1 LEONS UNOCAL	General Automotive Repair Shops
2000	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
2001	A1 LEONS UNOCAL	General Automotive Repair Shops
2001	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
2002	A1 LEONS UNOCAL	General Automotive Repair Shops
2003	A1 LEONS UNOCAL	General Automotive Repair Shops
2003	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2004	A1 LEONS UNOCAL	General Automotive Repair Shops
2004	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2005	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2005	A1 LEONS UNOCAL	General Automotive Repair Shops
2006	A1 LEONS UNOCAL	General Automotive Repair Shops
2006	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2007	A1 LEONS UNOCAL	General Automotive Repair Shops
2007	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2007	ERICS SMOG	Automotive Maintenance Services
2008	ERICS SMOG	Automotive Maintenance Services
2008	A-1 UNION 76 SERVICE STATION	Gasoline Service Stations
2008	A1 LEONS UNOCAL	General Automotive Repair Shops
2008	LEONS AUTOMOTIVE CENTER	General Automotive Repair Shops
2009	ERICS SMOG	Automotive Maintenance Services
2009	A1 LEONS UNOCAL	General Automotive Repair Shops
2010	ERICS SMOG	Automotive Maintenance Services
2010	A1 LEONS UNOCAL	General Automotive Repair Shops
2011	A1 LEONS UNOCAL	General Automotive Repair Shops
2011	ERICS SMOG	Automotive Maintenance Services
2012	A1 LEONS UNOCAL	General Automotive Repair Shops

A-1 UNION 76 SERVICE STATION (Continued) **1021234356**

2012	ERICS SMOG	Automotive Maintenance Services
2013	ERICS SMOG	Automotive Maintenance Services
2013	A1 LEONS UNOCAL	General Automotive Repair Shops
2014	ERICS SMOG	Automotive Maintenance Services
2014	A1 LEONS UNOCAL	General Automotive Repair Shops

---

11 **REC AND PARKS** **HIST UST** **U001567490**
West **6503 ATIWANDA** **N/A**
< 1/8 **RESEDA, CA 91335**
0.059 mi.
311 ft.

Relative:
Lower

Actual:
727 ft.

HIST UST:

File Number:	0002766B
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/0002766B.pdf
Region:	STATE
Facility ID:	00000047018
Facility Type:	Not reported
Other Type:	PARKS MT. SERVICE YA
Contact Name:	EARL J. BECK
Telephone:	8189898779
Owner Name:	LOS ANGELES CITY
Owner Address:	200 N. MAIN ROOM 800
Owner City,St,Zip:	LOS ANGELES, CA 91335
Total Tanks:	0001
Tank Num:	001
Container Num:	0841
Year Installed:	Not reported
Tank Capacity:	00000280
Tank Used for:	PRODUCT
Type of Fuel:	UNLEADED
Container Construction Thickness:	Not reported
Leak Detection:	Stock Inventor, None

Click here for Geo Tracker PDF:

B12 **LINDLEY AVENUE TRANSFER STATION** **SWF/LF** **S102360695**
SSE **6351 LINDLEY AVENUE** **N/A**
< 1/8 **RESEDA (IN LOS ANGELES), CA**
0.070 mi.
367 ft. **Site 5 of 6 in cluster B**

Relative:
Lower

Actual:
721 ft.

SWF/LF (SWIS):

Region:	STATE
Facility ID:	19-AA-0808
Lat/Long:	34.18545 / -118.52747
Owner Name:	City Of Los Angeles Bur Of Street Maint
Owner Telephone:	2134855630
Owner Address:	Not reported
Owner Address2:	600 South Spring Street, Suite 1200
Owner City,St,Zip:	Los Angeles, CA 90014
Operational Status:	Active
Operator:	City Of Los Angeles Bur Of Street Maint
Operator Phone:	2134855630
Operator Address:	Not reported

LINDLEY AVENUE TRANSFER STATION (Continued) **S102360695**

Operator Address2:	600 South Spring Street, Suite 1200
Operator City,St,Zip:	Los Angeles, CA 90014
Permit Date:	07/10/2002
Permit Status:	Notification
Permitted Acreage:	$1.00
Activity:	Limited Volume Transfer Operation
Regulation Status:	Notification
Landuse Name:	Commercial
GIS Source:	Map
Category:	Transfer/Processing
Unit Number:	01
Inspection Frequency:	Quarterly
Accepted Waste:	Construction/demolition,Green Materials,Mixed municipal
Closure Date:	Not reported
Closure Type:	Not reported
Disposal Acreage:	Not reported
SWIS Num:	19-AA-0808
Waste Discharge Requirement Num:	Not reported
Program Type:	Not reported
Permitted Throughput with Units:	60
Actual Throughput with Units:	Cu Yards/day
Permitted Capacity with Units:	15000
Remaining Capacity:	Not reported
Remaining Capacity with Units:	Cu Yards/year
Lat/Long:	34.18545 / -118.52747

B13 **LA ST MAINT TRANSFER STORAGE YARD** **RCRA-SQG** **1000387315**
SSE **6351 LINDLEY AVE** **FINDS** **CAD981988207**
< 1/8 **LOS ANGELES, CA 90012** **ECHO**
0.070 mi.
367 ft. **Site 6 of 6 in cluster B**

Relative:
Lower

Actual:
721 ft.

RCRA-SQG:

Date form received by agency:	03/25/1987
Facility name:	LA ST MAINT TRANSFER STORAGE YARD
Facility address:	6351 LINDLEY AVE LOS ANGELES, CA 90012
EPA ID:	CAD981988207
Mailing address:	200 N MAIN RM EIGHTH HUNDREDCH LOS ANGELES, CA 90012
Contact:	ENVIRONMENTAL MANAGER
Contact address:	6351 LINDLEY AVE LOS ANGELES, CA 90012
Contact country:	US
Contact telephone:	(213) 485-7527
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	CITY OF LOS ANGELES
Owner/operator address:	NOT REQUIRED

LA ST MAINT TRANSFER STORAGE YARD (Continued) **1000387315**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Municipal
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002767202

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000387315
Registry ID: 110002767202
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002767202

14
ENE
1/8-1/4
0.135 mi.
714 ft.

NEWCASTLE AVENUE ELEMENTARY SCHOOL
6520 NEWCASTLE AVE
RESEDA, CA 91335

RCRA-LQG

1011861630
CAR000195834

Relative:
Lower

Actual:
728 ft.

RCRA-LQG:

Date form received by agency:	10/10/2008
Facility name:	NEWCASTLE AVENUE ELEMENTARY SCHOOL
Facility address:	6520 NEWCASTLE AVE RESEDA, CA 91335
EPA ID:	CAR000195834
Mailing address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS LOS ANGELES, CA 90017
Contact:	SOE AUNG
Contact address:	333 S BEAUDRY AVE 20TH FL LAUSD OEHS LOS ANGELES, CA 90017
Contact country:	US
Contact telephone:	213-241-3904
Contact email:	SOE.AUNG@LAUSD.NET
EPA Region:	09
Classification:	Large Quantity Generator
Description:	Handler: generates 1,000 kg or more of hazardous waste during any calendar month; or generates more than 1 kg of acutely hazardous waste during any calendar month; or generates more than 100 kg of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month; or generates 1 kg or less of acutely hazardous waste during any calendar month, and accumulates more than 1 kg of acutely hazardous waste at any time; or generates 100 kg or less of any residue or contaminated soil, waste or other debris resulting from the cleanup of a spill, into or on any land or water, of acutely hazardous waste during any calendar month, and accumulates more than 100 kg of that material at any time

Owner/Operator Summary:

Owner/operator name:	LAUSD
Owner/operator address:	333 S BEAUDRY AVE LOS ANGELES, CA 90017
Owner/operator country:	US
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Owner
Owner/Op start date:	11/14/1989
Owner/Op end date:	Not reported
Owner/operator name:	NEWCASTLE AVENUE ELEMENTARY SCHOOL
Owner/operator address:	Not reported Not reported
Owner/operator country:	Not reported
Owner/operator telephone:	Not reported
Legal status:	District
Owner/Operator Type:	Operator
Owner/Op start date:	11/14/1989
Owner/Op end date:	Not reported

Handler Activities Summary:

NEWCASTLE AVENUE ELEMENTARY SCHOOL (Continued) **1011861630**

U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D008
. Waste name: LEAD

Violation Status: No violations found

C15 **GVD COMMERCIAL PROPERTIES** **LUST** **S102431100**
NNW **18300 VANOWEN ST** **N/A**
1/8-1/4 **RESEDA, CA 91335**
0.227 mi.
1199 ft. **Site 1 of 3 in cluster C**

Relative:
Higher

Actual:
732 ft.

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913350907	
Status:	Preliminary site assessment workplan submitted	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702241	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	ETIWANDA AVE	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		7/1/1995
Date Leak Record Entered:	4/18/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		1/25/1996
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	OLD CASE #960419-02	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2340.044893156797846643413074 7

GVD COMMERCIAL PROPERTIES (Continued) **S102431100**

Source of Cleanup Funding:	Not reported
Preliminary Site Assessment Workplan Submitted:	1/25/1996
Preliminary Site Assessment Began:	Not reported
Pollution Characterization Began:	Not reported
Remediation Plan Submitted:	Not reported
Remedial Action Underway:	Not reported
Post Remedial Action Monitoring Began:	Not reported
Enforcement Action Date:	Not reported
Historical Max MTBE Date:	Not reported
Hist Max MTBE Conc in Groundwater:	Not reported
Hist Max MTBE Conc in Soil:	Not reported
Significant Interim Remedial Action Taken:	Not reported
GW Qualifier:	Not reported
Soil Qualifier:	Not reported
Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	GVD
RP Address:	Not reported
Program:	LUST
Lat/Long:	34.1937127 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	Not reported
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	Not reported

C16 **GVD COMMERCIAL PROPERTIES** **HIST CORTESE** **S103637486**
NNW **18300 VANOWEN** **N/A**
1/8-1/4 **RESEDA, CA 91335**
0.227 mi.
1199 ft. **Site 2 of 3 in cluster C**

Relative:
Higher

Actual:
732 ft.

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913350907

C17 **RESEDA MARKETPLACE** **SLIC** **S113804562**
NNW **18300 VANOWEN STREET** **N/A**
1/8-1/4 **RESEDA, CA 91335**
0.227 mi.
1199 ft. **Site 3 of 3 in cluster C**

Relative:
Higher

Actual:
732 ft.

SLIC:

Region:	STATE
Facility Status:	**Open - Eligible for Closure**
Status Date:	08/03/2015
Global Id:	T10000004829
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number:	Not reported
Latitude:	34.1933760576065
Longitude:	-118.532575557117
Case Type:	Cleanup Program Site

RESEDA MARKETPLACE (Continued) **S113804562**

Case Worker:	JYP
Local Agency:	Not reported
RB Case Number:	1293
File Location:	Regional Board
Potential Media Affected:	Aquifer used for drinking water supply, Soil, Soil Vapor
Potential Contaminants of Concern:	Tetrachloroethylene (PCE)
Site History:	Historical dry cleaning facility was at the site. The building with the location of the dry cleaning facility was demolished and paved over as a parking lot.

Click here to access the California GeoTracker records for this facility:

D18 THE ANCHOR **LUST S101584292**
WNW 6616 RESEDA BLVD **SWEEPS UST N/A**
1/8-1/4 RESEDA, CA 91335 **CA FID UST**
0.241 mi.
1275 ft. **Site 1 of 4 in cluster D**

Relative: Higher

Actual: 729 ft.

LUST:

Region:	STATE
Global Id:	T0603764849
Latitude:	34.190741
Longitude:	-118.535715
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/29/2011
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JW
Local Agency:	Not reported
RB Case Number:	913351025
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Soil
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603764849
Contact Type:	Regional Board Caseworker
Contact Name:	JIMMIE WOO
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	jwoo@waterboards.ca.gov
Phone Number:	2135766600

Status History:

Global Id:	T0603764849
Status:	Completed - Case Closed
Status Date:	07/29/2011
Global Id:	T0603764849
Status:	Open - Case Begin Date
Status Date:	01/24/1990
Global Id:	T0603764849

THE ANCHOR (Continued) **S101584292**

Status: Open - Site Assessment
Status Date: 07/12/1990

Regulatory Activities:
Global Id: T0603764849
Action Type: ENFORCEMENT
Date: 04/21/2011
Action: Referral to Regional Board - #1

Global Id: T0603764849
Action Type: Other
Date: 01/24/1990
Action: Leak Discovery

Global Id: T0603764849
Action Type: ENFORCEMENT
Date: 07/29/2011
Action: Closure/No Further Action Letter

Global Id: T0603764849
Action Type: RESPONSE
Date: 07/15/2011
Action: Other Report / Document

Global Id: T0603764849
Action Type: ENFORCEMENT
Date: 05/13/2011
Action: Staff Letter

Global Id: T0603764849
Action Type: Other
Date: 03/15/1990
Action: Leak Reported

SWEEPS UST:
Status: Not reported
Comp Number: 5268
Number: Not reported
Board Of Equalization: Not reported
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: Not reported
Tank Status: Not reported
Capacity: Not reported
Active Date: Not reported
Tank Use: Not reported
STG: Not reported
Content: Not reported
Number Of Tanks: 0

CA FID UST:
Facility ID: 19010278
Regulated By: UTNKI

THE ANCHOR (Continued) **S101584292**

Regulated ID:	Not reported
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	6616 RESEDA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	RESEDA 913350000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

D19 **UNICO AUTO BODY PAINT** **RCRA-SQG 1000175238**
WNW **1400 RESEDA BLVD** **FINDS CAD982407991**
1/8-1/4 **RESEDA, CA 91335** **ECHO**
0.250 mi.
1319 ft. **Site 2 of 4 in cluster D**

Relative:
Lower

Actual:
723 ft.

RCRA-SQG:

Date form received by agency:	03/31/1988
Facility name:	UNICO AUTO BODY PAINT
Facility address:	1400 RESEDA BLVD RESEDA, CA 91335
EPA ID:	CAD982407991
Mailing address:	22704 VENTURA BLVD WOODLAND HILLS, CA 91364
Contact:	ENVIRONMENTAL MANAGER
Contact address:	1400 RESEDA BLVD RESEDA, CA 91335
Contact country:	US
Contact telephone:	(818) 996-2018
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	TOM STEINBOCK
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported
Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED

UNICO AUTO BODY PAINT (Continued) **1000175238**

NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

FINDS:

Registry ID: 110002806018

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000175238
Registry ID: 110002806018
DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002806018

E20 **SHELL OIL CO** **LUST** **1000288411**
WSW **6360 RESEDA** **RCRA NonGen / NLR** **CAD981405335**
1/4-1/2 **RESEDA, CA 91335** **HIST CORTESE**
0.277 mi.
1463 ft. **Site 1 of 2 in cluster E**

Relative:
Higher

Actual:
732 ft.

LUST:

Region:	STATE
Global Id:	T0603702243
Latitude:	34.186253
Longitude:	-118.535643
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/02/1996
Lead Agency:	LOS ANGELES, CITY OF
Case Worker:	WR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350925
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Other Groundwater (uses other than drinking water)
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702243
Contact Type:	Local Agency Caseworker
Contact Name:	TBD
Organization Name:	LOS ANGELES, CITY OF
Address:	200 N. MAIN ST. RM. 970
City:	LOS ANGELES
Email:	Not reported
Phone Number:	2134826528

Global Id:	T0603702243
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603702243
Status:	Completed - Case Closed
Status Date:	10/02/1996

Global Id:	T0603702243
Status:	Open - Case Begin Date
Status Date:	05/18/1989

Global Id:	T0603702243
Status:	Open - Site Assessment
Status Date:	10/26/1991

SHELL OIL CO (Continued) **1000288411**

Regulatory Activities:

Global Id:	T0603702243
Action Type:	Other
Date:	05/18/1989
Action:	Leak Discovery

Global Id:	T0603702243
Action Type:	Other
Date:	10/26/1991
Action:	Leak Reported

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913350925	
Status:	Leak being confirmed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702243	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	VICTORY	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/18/1989	
Date Leak First Reported:		10/26/1991
Date Leak Record Entered:	12/10/1991	
Date Confirmation Began:	10/26/1991	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		12/12/1991
Date the Case was Closed:		Not reported
How Leak Discovered:	OM	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	OLD CASENO WAS 121291-06	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		5238.859883967883708907308278 5
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported

SHELL OIL CO (Continued) **1000288411**

GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: SHELL OIL COMPANY
RP Address: 511 N BROOKHURST ST, ANAHEIM, 92081
Program: LUST
Lat/Long: 34.1857859 / -1
Local Agency Staff: Not reported
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: Not reported

RCRA NonGen / NLR:
Date form received by agency: 10/12/2000
Facility name: SHELL OIL CO
Facility address: 6360 RESEDA
RESEDA, CA 91335
EPA ID: CAD981405335
Mailing address: P O BOX 4453
HOUSTON, TX 772104453
Contact: SONDRA BIENVENU
Contact address: 777 WALKER ST
HOUSTON, TX 77002
Contact country: US
Contact telephone: (713) 241-5036
Contact email: Not reported
EPA Region: 09
Classification: Non-Generator
Description: Handler: Non-Generators do not presently generate hazardous waste

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: EQUILON ENTERPRISES LLC
Owner/operator address: P O BOX 4453
HOUSTON, TX 77210
Owner/operator country: Not reported
Owner/operator telephone: (713) 241-2258
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

SHELL OIL CO (Continued) **1000288411**

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

. Waste code: D001
. Waste name: IGNITABLE WASTE

. Waste code: D018
. Waste name: BENZENE

Historical Generators:
Date form received by agency: 09/01/1996
Site name: SHELL OIL CO
Classification: Small Quantity Generator

Violation Status: No violations found

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913350925

D21 **RESEDA DODGE** **RCRA-SQG** **1000201314**
WNW **6625 RESEDA BLVD** **LUST** **CAD981677578**
1/4-1/2 **RESEDA, CA 91335** **FINDS**
0.288 mi. **ECHO**
1519 ft. **Site 3 of 4 in cluster D** **HAZNET**

Relative: Higher

Actual: 729 ft.

RCRA-SQG:
Date form received by agency: 10/06/1986
Facility name: RESEDA DODGE
Facility address: 6625 RESEDA BLVD
RESEDA, CA 91335
EPA ID: CAD981677578
Contact: ENVIRONMENTAL MANAGER
Contact address: 6625 RESEDA BLVD
LOS ANGELES, CA 91333
Contact country: US
Contact telephone: (818) 345-4001
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous

RESEDA DODGE (Continued) **1000201314**

waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: BENSON HAROLD
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Violation Status: No violations found

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913350970
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Treat
Global ID: T0603790019

RESEDA DODGE (Continued) **1000201314**

W Global ID:	Not reported	
Staff:	CEC	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	LET	
Date Leak Discovered:	5/29/1987	
Date Leak First Reported:		2/4/2001
Date Leak Record Entered:	Not reported	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	5/29/1987	
Date Case Last Changed on Database:		9/20/2001
Date the Case was Closed:		Not reported
How Leak Discovered:	Repair Tank	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	Tank	
Operator:	RESEDA DODGE	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		3506.4565115176275040852865206
Source of Cleanup Funding:		Tank
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		10/1/2003
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		5/29/2003
Hist Max MTBE Conc in Groundwater:		47
Hist Max MTBE Conc in Soil:		.005
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	=	
Soil Qualifier:	=	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	MR. HORMOZ RAMY	
RP Address:	6625 RESEDA BLVD.	
Program:	LUST	
Lat/Long:	34.19069 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	Not reported	

FINDS:

Registry ID: 110008271985

Environmental Interest/Information System

RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA

RESEDA DODGE (Continued) **1000201314**

program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:

Envid:	1000201314
Registry ID:	110008271985
DFR URL:	http://echo.epa.gov/detailed-facility-report?fid=110008271985

HAZNET:

envid:	1000201314
Year:	2005
GEPAID:	CAD981677578
Contact:	MATT MORRISON SERVICE MANAGER
Telephone:	8183454001
Mailing Name:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing City,St,Zip:	RESEDA, CA 913355314
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Oil/water separation sludge
Disposal Method:	Recycler
Tons:	0.41
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000201314
Year:	2005
GEPAID:	CAD981677578
Contact:	MATT MORRISON SERVICE MANAGER
Telephone:	8183454001
Mailing Name:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing City,St,Zip:	RESEDA, CA 913355314
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified aqueous solution
Disposal Method:	Recycler
Tons:	0.2
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000201314
Year:	2005
GEPAID:	CAD981677578
Contact:	MATT MORRISON SERVICE MANAGER
Telephone:	8183454001

RESEDA DODGE (Continued) **1000201314**

Mailing Name:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing City,St,Zip:	RESEDA, CA 913355314
Gen County:	Not reported
TSD EPA ID:	CAT000646117
TSD County:	Not reported
Waste Category:	Other organic solids
Disposal Method:	Disposal, Land Fill
Tons:	8.42
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000201314
Year:	2005
GEPAID:	CAD981677578
Contact:	MATT MORRISON SERVICE MANAGER
Telephone:	8183454001
Mailing Name:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing City,St,Zip:	RESEDA, CA 913355314
Gen County:	Not reported
TSD EPA ID:	CAT000613893
TSD County:	Not reported
Waste Category:	Aqueous solution with total organic residues less than 10 percent
Disposal Method:	Transfer Station
Tons:	0.31
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

envid:	1000201314
Year:	2005
GEPAID:	CAD981677578
Contact:	MATT MORRISON SERVICE MANAGER
Telephone:	8183454001
Mailing Name:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing City,St,Zip:	RESEDA, CA 913355314
Gen County:	Not reported
TSD EPA ID:	CAT080013352
TSD County:	Not reported
Waste Category:	Unspecified organic liquid mixture
Disposal Method:	Recycler
Tons:	0.58
Cat Decode:	Not reported
Method Decode:	Not reported
Facility County:	Los Angeles

Click this hyperlink while viewing on your computer to access
22 additional CA_HAZNET: record(s) in the EDR Site Report.

D22 **RESEDA DODGE** **LUST** **S101618441**
WNW **6625 RESEDA BLVD** **SWEEPS UST** **N/A**
1/4-1/2 **RESEDA, CA 91335** **CA FID UST**
0.288 mi. **EMI**
1519 ft. **Site 4 of 4 in cluster D**

Relative:
Higher

Actual:
729 ft.

LUST:

Region:	STATE
Global Id:	T0603790019
Latitude:	34.19069
Longitude:	-118.536265
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	02/24/2012
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AT
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350970
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603790019
Contact Type:	Regional Board Caseworker
Contact Name:	ARMAN TOUMARI
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	atoumari@waterboards.ca.gov
Phone Number:	2135766708

Global Id:	T0603790019
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603790019
Status:	Completed - Case Closed
Status Date:	02/24/2012

Global Id:	T0603790019
Status:	Open - Case Begin Date
Status Date:	05/29/1987

Global Id:	T0603790019
Status:	Open - Remediation
Status Date:	03/23/2007

Global Id:	T0603790019

RESEDA DODGE (Continued) **S101618441**

Status: Open - Remediation
Status Date: 11/19/2007

Global Id: T0603790019
Status: Open - Remediation
Status Date: 03/17/2008

Global Id: T0603790019
Status: Open - Remediation
Status Date: 10/12/2011

Global Id: T0603790019
Status: Open - Site Assessment
Status Date: 02/04/2001

Global Id: T0603790019
Status: Open - Site Assessment
Status Date: 04/15/2002

Global Id: T0603790019
Status: Open - Site Assessment
Status Date: 10/01/2003

Global Id: T0603790019
Status: Open - Site Assessment
Status Date: 05/03/2010

Regulatory Activities:
Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 02/24/2012
Action: Closure/No Further Action Letter

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 02/24/2012
Action: Closure/No Further Action Letter

Global Id: T0603790019
Action Type: RESPONSE
Date: 08/03/2010
Action: Soil and Water Investigation Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

RESEDA DODGE (Continued) **S101618441**

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/20/2009
Action: Interim Remedial Action Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/01/2003
Action: CAP/RAP - Feasibility Study Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/01/2003
Action: Soil and Water Investigation Workplan

Global Id: T0603790019
Action Type: RESPONSE
Date: 11/14/2008
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2005
Action: Other Report / Document

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE

RESEDA DODGE (Continued) **S101618441**

Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/26/2011
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/17/2008
Action: Well Installation Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 05/03/2010
Action: Staff Letter

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/31/2002
Action: Soil and Water Investigation Workplan

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2012
Action: Remedial Progress Report

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 06/24/2010
Action: Site Visit / Inspection / Sampling

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 10/25/2011
Action: Staff Letter

RESEDA DODGE (Continued) **S101618441**

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 07/11/2001
Action: Staff Letter

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2008
Action: Remedial Progress Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 11/25/2008
Action: Well Installation Report

Global Id: T0603790019
Action Type: Other
Date: 05/29/1987
Action: Leak Stopped

Global Id: T0603790019
Action Type: Other
Date: 05/29/1987
Action: Leak Discovery

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/20/2009
Action: Well Installation Workplan

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: ENFORCEMENT

RESEDA DODGE (Continued) **S101618441**

Date: 01/25/2008
Action: Staff Letter

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 06/15/2009
Action: Staff Letter

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 10/12/2011
Action: Staff Letter

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 12/12/2002
Action: Soil and Water Investigation Report

Global Id: T0603790019
Action Type: Other
Date: 02/04/2001
Action: Leak Reported

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/23/2012
Action: Clean Up Fund - 5-Year Review Summary

Global Id: T0603790019
Action Type: RESPONSE
Date: 11/19/2007
Action: Corrective Action Plan / Remedial Action Plan

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: ENFORCEMENT
Date: 09/13/2005
Action: Staff Letter

Global Id: T0603790019
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 03/21/2007
Action: Soil and Water Investigation Report

RESEDA DODGE (Continued) **S101618441**

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2006
Action: Remedial Progress Report

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603790019
Action Type: RESPONSE
Date: 04/15/2007
Action: Well Installation Report

Global Id: T0603790019
Action Type: REMEDIATION
Date: 06/01/1987
Action: Excavation

Global Id: T0603790019
Action Type: REMEDIATION
Date: 10/01/2008
Action: Excavation

Global Id: T0603790019
Action Type: REMEDIATION
Date: 01/01/2011
Action: Soil Vapor Extraction (SVE)

SWEEPS UST:
Status: Not reported
Comp Number: 533
Number: Not reported
Board Of Equalization: 44-011254
Referral Date: Not reported

RESEDA DODGE (Continued) **S101618441**

Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000533-000001
Tank Status:	Not reported
Capacity:	260
Active Date:	Not reported
Tank Use:	OIL
STG:	WASTE
Content:	WASTE OIL
Number Of Tanks:	2

Status:	Not reported
Comp Number:	533
Number:	Not reported
Board Of Equalization:	44-011254
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-000533-000002
Tank Status:	Not reported
Capacity:	3000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

CA FID UST:

Facility ID:	19023970
Regulated By:	UTNKI
Regulated ID:	00005179
Cortese Code:	Not reported
SIC Code:	Not reported
Facility Phone:	2130000000
Mail To:	Not reported
Mailing Address:	6625 RESEDA BLVD
Mailing Address 2:	Not reported
Mailing City,St,Zip:	RESEDA 913350000
Contact:	Not reported
Contact Phone:	Not reported
DUNs Number:	Not reported
NPDES Number:	Not reported
EPA ID:	Not reported
Comments:	Not reported
Status:	Inactive

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	15659
Air District Name:	SC
SIC Code:	5511
Air District Name:	SOUTH COAST AQMD

RESEDA DODGE (Continued) **S101618441**

Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	15659
Air District Name:	SC
SIC Code:	5511
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

E23 **MOBIL 18-KMM 12567** **LUST** **U001567868**
WSW **18510 VICTORY BLVD** **HIST UST** **N/A**
1/4-1/2 **RESEDA, CA 91335** **CHMIRS**
0.316 mi.
1670 ft. **Site 2 of 2 in cluster E**

Relative:
Higher

Actual:
733 ft.

LUST:

Region:	STATE
Global Id:	T0603731796
Latitude:	34.186245
Longitude:	-118.536436
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	01/13/2009
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	AT
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350998
LOC Case Number:	11172
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603731796
Contact Type:	Regional Board Caseworker
Contact Name:	ARMAN TOUMARI
Organization Name:	LOS ANGELES RWQCB (REGION 4)

MOBIL 18-KMM 12567 (Continued) **U001567868**

Address:	320 WEST 4TH STREET, SUITE 200
City:	LOS ANGELES
Email:	atoumari@waterboards.ca.gov
Phone Number:	2135766708
Global Id:	T0603731796
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Status History:

Global Id:	T0603731796
Status:	Completed - Case Closed
Status Date:	01/13/2009
Global Id:	T0603731796
Status:	Open - Case Begin Date
Status Date:	06/24/2002
Global Id:	T0603731796
Status:	Open - Site Assessment
Status Date:	06/24/2002
Global Id:	T0603731796
Status:	Open - Site Assessment
Status Date:	02/25/2008

Regulatory Activities:

Global Id:	T0603731796
Action Type:	RESPONSE
Date:	07/15/2008
Action:	Monitoring Report - Quarterly
Global Id:	T0603731796
Action Type:	ENFORCEMENT
Date:	09/23/2008
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603731796
Action Type:	ENFORCEMENT
Date:	11/21/2008
Action:	Notification - Preclosure
Global Id:	T0603731796
Action Type:	ENFORCEMENT
Date:	10/19/2008
Action:	Site Visit / Inspection / Sampling
Global Id:	T0603731796
Action Type:	RESPONSE
Date:	02/25/2008
Action:	Preliminary Site Assessment Report

MOBIL 18-KMM 12567 (Continued) **U001567868**

Global Id: T0603731796
Action Type: ENFORCEMENT
Date: 01/13/2009
Action: Closure/No Further Action Letter

Global Id: T0603731796
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603731796
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603731796
Action Type: RESPONSE
Date: 11/15/2007
Action: Other Report / Document

Global Id: T0603731796
Action Type: Other
Date: 06/24/2002
Action: Leak Reported

Global Id: T0603731796
Action Type: ENFORCEMENT
Date: 10/30/2007
Action: Staff Letter

Global Id: T0603731796
Action Type: Other
Date: 06/24/2002
Action: Leak Discovery

HIST UST:
File Number: 00027F5A
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F5A.pdf
Region: STATE
Facility ID: 00000039814
Facility Type: Gas Station
Other Type: Not reported
Contact Name: Not reported
Telephone: 8183452410
Owner Name: MOBIL OIL CORPORATION
Owner Address: 612 SOUTH FLOWER STREET
Owner City,St,Zip: LOS ANGELES, CA 90017
Total Tanks: 0004

Tank Num: 001
Container Num: 0840
Year Installed: 1969
Tank Capacity: 00000280
Tank Used for: WASTE
Type of Fuel: WASTE OIL
Container Construction Thickness: Not reported

MOBIL 18-KMM 12567 (Continued) **U001567868**

Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 0841
Year Installed: 1969
Tank Capacity: 00009940
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 0842
Year Installed: 1971
Tank Capacity: 00006000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 004
Container Num: 0843
Year Installed: 1969
Tank Capacity: 00008000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

CHMIRS:
OES Incident Number: 2-0347
OES notification: 01/18/2002
OES Date: Not reported
OES Time: Not reported
Date Completed: **Not reported**
Property Use: Not reported
Agency Id Number: Not reported
Agency Incident Number: Not reported
Time Notified: Not reported
Time Completed: Not reported
Surrounding Area: Not reported
Estimated Temperature: Not reported
Property Management: Not reported
More Than Two Substances Involved?: Not reported
Resp Agncy Personel # Of Decontaminated: Not reported
Responding Agency Personel # Of Injuries: Not reported
Responding Agency Personel # Of Fatalities: Not reported
Others Number Of Decontaminated: Not reported
Others Number Of Injuries: Not reported
Others Number Of Fatalities: Not reported
Vehicle Make/year: Not reported
Vehicle License Number: Not reported
Vehicle State: Not reported
Vehicle Id Number: Not reported
CA DOT PUC/ICC Number: Not reported

MOBIL 18-KMM 12567 (Continued) **U001567868**

Company Name:	Not reported
Reporting Officer Name/ID:	Not reported
Report Date:	Not reported
Facility Telephone:	Not reported
Waterway Involved:	No
Waterway:	Not reported
Spill Site:	Not reported
Cleanup By:	Unknown
Containment:	Not reported
What Happened:	Not reported
Type:	Not reported
Measure:	Not reported
Other:	Not reported
Date/Time:	Not reported
Year:	2002
Agency:	Veeder-Root
Incident Date:	1/18/200212:00:00 AM
Admin Agency:	L. A. County Fire Prevention
Amount:	Not reported
Contained:	Unknown
Site Type:	Service Station
E Date:	Not reported
Substance:	Gasoline
Gallons:	0.000000
Unknown:	0
Substance #2:	Not reported
Substance #3:	Not reported
Evacuations:	0
Number of Injuries:	0
Number of Fatalities:	0
#1 Pipeline:	Not reported
#2 Pipeline:	Not reported
#3 Pipeline:	Not reported
#1 Vessel >= 300 Tons:	Not reported
#2 Vessel >= 300 Tons:	Not reported
#3 Vessel >= 300 Tons:	Not reported
Evacs:	Not reported
Injuries:	Not reported
Fatals:	Not reported
Comments:	Not reported
Description:	Per caller, a customer hit a gasoline filling pump. It is only suspected at this time that a release may have occurred and contained in a secondary containment under ground. Situation still under investigation.

F24 **EXXON SERVICE STATION** **LUST** **U001567477**
NW **6756 RESEDA** **SWEEPS UST** **N/A**
1/4-1/2 **RESEDA, CA 91335** **HIST UST**
0.341 mi. **HIST CORTESE**
1800 ft. **Site 1 of 3 in cluster F**

Relative:
Higher

Actual:
733 ft.

LUST:

Region:	STATE
Global Id:	T0603702222
Latitude:	34.1935739
Longitude:	-118.5360269
Case Type:	LUST Cleanup Site

EXXON SERVICE STATION (Continued) **U001567477**

Status:	Completed - Case Closed
Status Date:	07/19/1996
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	YR
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350707
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702222
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702222
Contact Type:	Regional Board Caseworker
Contact Name:	YUE RONG
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	Los Angeles
Email:	yrong@waterboards.ca.gov
Phone Number:	Not reported

Status History:

Global Id:	T0603702222
Status:	Completed - Case Closed
Status Date:	07/19/1996

Global Id:	T0603702222
Status:	Open - Case Begin Date
Status Date:	10/11/1984

Global Id:	T0603702222
Status:	Open - Site Assessment
Status Date:	04/15/1988

Regulatory Activities:

Global Id:	T0603702222
Action Type:	Other
Date:	10/11/1984
Action:	Leak Reported

LUST REG 4:

Region:	4
Regional Board:	04

EXXON SERVICE STATION (Continued) **U001567477**

County:	Los Angeles	
Facility Id:	913350707	
Status:	Case Closed	
Substance:	Gasoline	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Excavate and Dispose
Global ID:	T0603702222	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	VANOWEN	
Enforcement Type:	Not reported	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		10/11/1984
Date Leak Record Entered:	12/31/1986	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		7/14/1988
Date the Case was Closed:		7/19/1996
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2642.39389755484206735207348 05
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		4/15/1988
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Yes
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	EXXON COMPANY, USA	
RP Address:	P.O. BOX 2180, RM 2682, HOUSTON TX 77252-2180	
Program:	LUST	
Lat/Long:	34.1930777 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	TANK AND CONTAMINATED SOIL REMOVED. GROUNDWATER CONTAMINATION IS LOW.	

EXXON SERVICE STATION (Continued) **U001567477**

FORMER JD CASE.

SWEEPS UST:

Status:	Not reported
Comp Number:	1678
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001678-000001
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	3

Status:	Not reported
Comp Number:	1678
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001678-000002
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1678
Number:	Not reported
Board Of Equalization:	44-000285
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001678-000003
Tank Status:	Not reported
Capacity:	12000
Active Date:	Not reported
Tank Use:	M.V. FUEL
STG:	PRODUCT
Content:	REG UNLEADED
Number Of Tanks:	Not reported

HIST UST:

File Number:	00026559

EXXON SERVICE STATION (Continued) **U001567477**

URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00026559.pdf
Region: STATE
Facility ID: 00000029120
Facility Type: Gas Station
Other Type: Not reported
Contact Name: SEROP HAKIMIAN
Telephone: 2133432598
Owner Name: EXXON COMPANY U.S.A.
Owner Address: 16945 NORTH CHASE BLVD.
Owner City,St,Zip: HOUSTON, TX 77210
Total Tanks: 0003

Tank Num: 001
Container Num: 1
Year Installed: 1973
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: PREMIUM
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 002
Container Num: 2
Year Installed: 1973
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: REGULAR
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Tank Num: 003
Container Num: 3
Year Installed: 1973
Tank Capacity: 00012000
Tank Used for: PRODUCT
Type of Fuel: UNLEADED
Container Construction Thickness: Not reported
Leak Detection: Stock Inventor

Click here for Geo Tracker PDF:

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913350707

F25 **SHELL** **LUST** **S102436934**
NW **6761 RESEDA** **SWEEPS UST** **N/A**
1/4-1/2 **RESEDA, CA 91335** **HIST CORTESE**
0.358 mi.
1891 ft. **Site 2 of 3 in cluster F**

Relative:
Higher

Actual:
733 ft.

LUST:
Region: STATE
Global Id: T0603702223
Latitude: 34.1931467

SHELL (Continued) **S102436934**

Longitude:	-118.5362044
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	07/27/2015
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350716
LOC Case Number:	Not reported
File Location:	Regional Board
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702223
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702223
Contact Type:	Regional Board Caseworker
Contact Name:	MAGDY BAIADY
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	320 W. 4TH ST., SUITE 200
City:	LOS ANGELES
Email:	mbaiady@waterboards.ca.gov
Phone Number:	2135766699

Status History:

Global Id:	T0603702223
Status:	Completed - Case Closed
Status Date:	07/27/2015

Global Id:	T0603702223
Status:	Open - Case Begin Date
Status Date:	11/19/1985

Global Id:	T0603702223
Status:	Open - Eligible for Closure
Status Date:	07/15/2015

Global Id:	T0603702223
Status:	Open - Site Assessment
Status Date:	07/03/1997

Global Id:	T0603702223
Status:	Open - Site Assessment
Status Date:	03/15/2000

Global Id:	T0603702223

SHELL (Continued) **S102436934**

Status: Open - Site Assessment
Status Date: 12/17/2001

Global Id: T0603702223
Status: Open - Site Assessment
Status Date: 04/28/2006

Regulatory Activities:
Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/14/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2015
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2007
Action: Monitoring Report - Quarterly

SHELL (Continued) **S102436934**

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: ENFORCEMENT
Date: 10/23/2014
Action: Notification - Preclosure

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: Other
Date: 11/19/1985
Action: Leak Reported

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2010
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE

SHELL (Continued) **S102436934**

Date: 07/15/2009
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/28/2006
Action: Soil and Water Investigation Workplan

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 08/15/2002
Action: Other Report / Document

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2011
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2013
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2013
Action: Monitoring Report - Semi-Annually

SHELL (Continued) **S102436934**

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/23/2013
Action: Request for Closure - Regulator Responded

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2012
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2006
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/23/2013
Action: Request for Closure

Global Id: T0603702223
Action Type: RESPONSE
Date: 09/18/2014
Action: Soil Vapor Intrusion Investigation Workplan - Regulator Responded

Global Id: T0603702223
Action Type: ENFORCEMENT
Date: 07/10/2002
Action: Staff Letter

Global Id: T0603702223
Action Type: ENFORCEMENT
Date: 07/27/2015
Action: Closure/No Further Action Letter

Global Id: T0603702223
Action Type: RESPONSE
Date: 04/15/2009
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 10/15/2008
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 07/15/2007
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE

SHELL (Continued) **S102436934**

Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702223
Action Type: RESPONSE
Date: 01/15/2014
Action: Monitoring Report - Semi-Annually

Global Id: T0603702223
Action Type: REMEDIATION
Date: 02/04/2004
Action: Soil Vapor Extraction (SVE)

Global Id: T0603702223
Action Type: REMEDIATION
Date: 03/19/2004
Action: In Situ Physical/Chemical Treatment (other than SVE)

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913350716
Status: Pollution Characterization
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Not reported
Global ID: T0603702223
W Global ID: Not reported
Staff: MB
Local Agency: 19050
Cross Street: VANOWEN
Enforcement Type: LET
Date Leak Discovered: Not reported
Date Leak First Reported: 11/19/1985
Date Leak Record Entered: 12/31/1986
Date Confirmation Began: Not reported
Date Leak Stopped: Not reported
Date Case Last Changed on Database: 9/23/2002
Date the Case was Closed: Not reported
How Leak Discovered: Not reported
How Leak Stopped: Not reported
Cause of Leak: UNK
Leak Source: UNK
Operator: Not reported
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2643.54995196670471852429255 86
Source of Cleanup Funding: UNK

SHELL (Continued) **S102436934**

Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 4/22/1988
Remediation Plan Submitted: Not reported
Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: 11/19/1985
Enforcement Action Date: Not reported
Historical Max MTBE Date: 2/26/2004
Hist Max MTBE Conc in Groundwater: 40000
Hist Max MTBE Conc in Soil: 24
Significant Interim Remedial Action Taken: Not reported
GW Qualifier: =
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: JOE LENTINI
RP Address: P.O. BOX 6249
Program: LUST
Lat/Long: 34.1931467 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: TANKS AND CONTAMINATED SOIL REMOVED. NO FURTHER ACTION REQUIRED.; 3/16/01 UST REMOVAL REPORT

SWEEPS UST:
Status: Active
Comp Number: 196
Number: 9
Board Of Equalization: 44-000074
Referral Date: 01-15-93
Action Date: 03-15-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000196-000001
Tank Status: A
Capacity: 8000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 3

Status: Active
Comp Number: 196
Number: 9
Board Of Equalization: 44-000074
Referral Date: 01-15-93
Action Date: 03-15-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000196-000002
Tank Status: A
Capacity: 8000

SHELL (Continued) **S102436934**

Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 196
Number: 9
Board Of Equalization: 44-000074
Referral Date: 01-15-93
Action Date: 03-15-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-000196-000003
Tank Status: A
Capacity: 8000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913350716

26
NW
1/4-1/2
0.390 mi.
2061 ft.

VANOWEN CAR WASH **LUST** **S102440852**
18514 VANOWEN ST **HIST UST** **N/A**
RESEDA, CA 91335 **HIST CORTESE**

Relative:
Higher

Actual:
733 ft.

LUST:
Region: STATE
Global Id: T0603702237
Latitude: 34.193562
Longitude: -118.536994
Case Type: LUST Cleanup Site
Status: Completed - Case Closed
Status Date: 04/22/1997
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Case Worker: YR
Local Agency: LOS ANGELES, CITY OF
RB Case Number: 913350861
LOC Case Number: Not reported
File Location: Not reported
Potential Media Affect: Aquifer used for drinking water supply
Potential Contaminants of Concern: Gasoline
Site History: Not reported

Click here to access the California GeoTracker records for this facility:

Contact:
Global Id: T0603702237
Contact Type: Local Agency Caseworker

VANOWEN CAR WASH (Continued) **S102440852**

Contact Name: ELOY LUNA
Organization Name: LOS ANGELES, CITY OF
Address: 200 North Main Street, Suite 1780
City: LOS ANGELES
Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702237
Contact Type: Regional Board Caseworker
Contact Name: YUE RONG
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: Los Angeles
Email: yrong@waterboards.ca.gov
Phone Number: Not reported

Status History:
Global Id: T0603702237
Status: Completed - Case Closed
Status Date: 04/22/1997

Global Id: T0603702237
Status: Open - Case Begin Date
Status Date: 05/14/1994

Global Id: T0603702237
Status: Open - Site Assessment
Status Date: 06/05/1996

Regulatory Activities:
Global Id: T0603702237
Action Type: Other
Date: 05/14/1996
Action: Leak Discovery

Global Id: T0603702237
Action Type: Other
Date: 05/14/1996
Action: Leak Stopped

Global Id: T0603702237
Action Type: Other
Date: 05/14/1994
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913350861
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater

VANOWEN CAR WASH (Continued) **S102440852**

Abatement Method Used at the Site:		Not reported
Global ID:	T0603702237	
W Global ID:	Not reported	
Staff:	UNK	
Local Agency:	19050	
Cross Street:	RESEDA BLVD	
Enforcement Type:	Not reported	
Date Leak Discovered:	5/14/1996	
Date Leak First Reported:		5/14/1994
Date Leak Record Entered:	9/16/1996	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	5/14/1996	
Date Case Last Changed on Database:		7/2/1997
Date the Case was Closed:		4/22/1997
How Leak Discovered:	Tank Closure	
How Leak Stopped:	Not reported	
Cause of Leak:	Not reported	
Leak Source:	Not reported	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2472.42683116255788464774582 51
Source of Cleanup Funding:		Not reported
Preliminary Site Assessment Workplan Submitted:		6/5/1996
Preliminary Site Assessment Began:		Not reported
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		Not reported
Hist Max MTBE Conc in Groundwater:		Not reported
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	
Organization:	Not reported	
Owner Contact:	Not reported	
Responsible Party:	VANOWEN CAR WASH	
RP Address:	P.O. BOX 571087, TARZANA CA 91357	
Program:	LUST	
Lat/Long:	34.1937187 / -1	
Local Agency Staff:	PEJ	
Beneficial Use:	Not reported	
Priority:	Not reported	
Cleanup Fund Id:	Not reported	
Suspended:	Not reported	
Assigned Name:	Not reported	
Summary:	11/16/96 - REMEDIAL ACTION, SOIL SAMPLING & ANALYSIS PROGRAM07/02/97 - RPT OF ABANDONMENT OF GW. MON. WELLS	

HIST UST:

File Number:	00027F4E
URL:	http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027F4E.pdf
Region:	Not reported
Facility ID:	Not reported
Facility Type:	Not reported

VANOWEN CAR WASH (Continued) **S102440852**

Other Type:	Not reported
Contact Name:	Not reported
Telephone:	Not reported
Owner Name:	Not reported
Owner Address:	Not reported
Owner City,St,Zip:	Not reported
Total Tanks:	Not reported
Tank Num:	Not reported
Container Num:	Not reported
Year Installed:	Not reported
Tank Capacity:	Not reported
Tank Used for:	Not reported
Type of Fuel:	Not reported
Container Construction Thickness:	Not reported
Leak Detection:	Not reported

Click here for Geo Tracker PDF:

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913350861

F27 **ARCO #5041** **LUST S101297859**
NW **6801 RESEDA** **SWEEPS UST N/A**
1/4-1/2 **RESEDA, CA 91335** **HIST CORTESE**
0.393 mi.
2074 ft. **Site 3 of 3 in cluster F**

Relative:
Higher

Actual:
734 ft.

LUST:

Region:	STATE
Global Id:	T0603702220
Latitude:	34.1938617
Longitude:	-118.5362074
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	06/17/2005
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	MB
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350561
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Other Solvent or Non-Petroleum Hydrocarbon
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702220
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES

ARCO #5041 (Continued) **S101297859**

Email: eloy.luna@lacity.org
Phone Number: Not reported

Global Id: T0603702220
Contact Type: Regional Board Caseworker
Contact Name: MAGDY BAIADY
Organization Name: LOS ANGELES RWQCB (REGION 4)
Address: 320 W. 4TH ST., SUITE 200
City: LOS ANGELES
Email: mbaiady@waterboards.ca.gov
Phone Number: 2135766699

Status History:
Global Id: T0603702220
Status: Completed - Case Closed
Status Date: 06/17/2005

Global Id: T0603702220
Status: Open - Case Begin Date
Status Date: 08/13/1991

Global Id: T0603702220
Status: Open - Remediation
Status Date: 10/31/1992

Global Id: T0603702220
Status: Open - Site Assessment
Status Date: 08/13/1991

Global Id: T0603702220
Status: Open - Site Assessment
Status Date: 01/15/1992

Global Id: T0603702220
Status: Open - Site Assessment
Status Date: 10/28/1992

Regulatory Activities:
Global Id: T0603702220
Action Type: RESPONSE
Date: 10/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 07/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 04/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 04/15/2005

ARCO #5041 (Continued) **S101297859**

Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: ENFORCEMENT
Date: 05/20/2005
Action: Site Visit / Inspection / Sampling

Global Id: T0603702220
Action Type: Other
Date: 02/03/1992
Action: Leak Reported

Global Id: T0603702220
Action Type: RESPONSE
Date: 01/15/2005
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 08/15/2002
Action: Other Report / Document

Global Id: T0603702220
Action Type: RESPONSE
Date: 10/15/2002
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 04/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 10/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: RESPONSE
Date: 07/15/2004
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: ENFORCEMENT
Date: 07/15/2002
Action: Staff Letter

Global Id: T0603702220
Action Type: ENFORCEMENT
Date: 06/17/2005
Action: Closure/No Further Action Letter

Global Id: T0603702220
Action Type: RESPONSE
Date: 01/15/2004
Action: Monitoring Report - Quarterly

ARCO #5041 (Continued) **S101297859**

Global Id: T0603702220
Action Type: RESPONSE
Date: 01/15/2003
Action: Monitoring Report - Quarterly

Global Id: T0603702220
Action Type: REMEDIATION
Date: 08/01/1992
Action: Excavation

LUST REG 4:

Region:	4	
Regional Board:	04	
County:	Los Angeles	
Facility Id:	913350561	
Status:	Preliminary site assessment underway	
Substance:	Hydrocarbons	
Substance Quantity:	Not reported	
Local Case No:	Not reported	
Case Type:	Groundwater	
Abatement Method Used at the Site:		Not reported
Global ID:	T0603702220	
W Global ID:	Not reported	
Staff:	MB	
Local Agency:	19050	
Cross Street:	Not reported	
Enforcement Type:	LET	
Date Leak Discovered:	Not reported	
Date Leak First Reported:		2/3/1992
Date Leak Record Entered:	6/9/1992	
Date Confirmation Began:	Not reported	
Date Leak Stopped:	Not reported	
Date Case Last Changed on Database:		7/15/2002
Date the Case was Closed:		Not reported
How Leak Discovered:	Not reported	
How Leak Stopped:	Not reported	
Cause of Leak:	UNK	
Leak Source:	UNK	
Operator:	Not reported	
Water System:	Not reported	
Well Name:	Not reported	
Approx. Dist To Production Well (ft):		2399.157564236418215471647 5612
Source of Cleanup Funding:		UNK
Preliminary Site Assessment Workplan Submitted:		Not reported
Preliminary Site Assessment Began:		1/15/1992
Pollution Characterization Began:		Not reported
Remediation Plan Submitted:		Not reported
Remedial Action Underway:		Not reported
Post Remedial Action Monitoring Began:		Not reported
Enforcement Action Date:		Not reported
Historical Max MTBE Date:		1/1/1965
Hist Max MTBE Conc in Groundwater:		11000
Hist Max MTBE Conc in Soil:		Not reported
Significant Interim Remedial Action Taken:		Not reported
GW Qualifier:	Not reported	
Soil Qualifier:	Not reported	

ARCO #5041 (Continued) **S101297859**

Organization:	Not reported
Owner Contact:	Not reported
Responsible Party:	RAY VOSE
RP Address:	P.O. BOX 5077
Program:	LUST
Lat/Long:	34.1938617 / -1
Local Agency Staff:	PEJ
Beneficial Use:	Not reported
Priority:	A1
Cleanup Fund Id:	Not reported
Suspended:	Not reported
Assigned Name:	Not reported
Summary:	POSSIBLE COMMINGAL PLUME WITH VERY HIGH MTBE CONC. GW. CONTAMINATION MIGRATED OFFSITE.; 10/4/00 3RD QTR GW MON RPT; 4/3/01 1ST QTR GW MON RPT 2001

SWEEPS UST:

Status:	Not reported
Comp Number:	1615
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001615-000001
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	REGULAR UNLE
Number Of Tanks:	6

Status:	Not reported
Comp Number:	1615
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported
Created Date:	Not reported
Owner Tank Id:	Not reported
SWRCB Tank Id:	19-050-001615-000002
Tank Status:	Not reported
Capacity:	6000
Active Date:	Not reported
Tank Use:	CHEMICAL
STG:	PRODUCT
Content:	REGULAR UNLE
Number Of Tanks:	Not reported

Status:	Not reported
Comp Number:	1615
Number:	Not reported
Board Of Equalization:	44-000506
Referral Date:	Not reported
Action Date:	Not reported

ARCO #5041 (Continued) **S101297859**

Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001615-000003
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: REGULAR UNLE
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1615
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001615-000004
Tank Status: Not reported
Capacity: 4000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: REGULAR UNLE
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1615
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001615-000005
Tank Status: Not reported
Capacity: 8000
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: REGULAR UNLE
Number Of Tanks: Not reported

Status: Not reported
Comp Number: 1615
Number: Not reported
Board Of Equalization: 44-000506
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-001615-000006
Tank Status: Not reported
Capacity: 550
Active Date: Not reported

ARCO #5041 (Continued) **S101297859**

Tank Use: OIL
STG: WASTE
Content: WASTE OIL
Number Of Tanks: Not reported

Status: Active
Comp Number: 1615
Number: 1
Board Of Equalization: 44-000506
Referral Date: 12-01-92
Action Date: 03-17-94
Created Date: 02-29-88
Owner Tank Id: 1615-1
SWRCB Tank Id: 19-050-001615-000007
Tank Status: A
Capacity: 10000
Active Date: 02-19-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: 5

Status: Active
Comp Number: 1615
Number: 1
Board Of Equalization: 44-000506
Referral Date: 12-01-92
Action Date: 03-17-94
Created Date: 02-29-88
Owner Tank Id: 1615-2
SWRCB Tank Id: 19-050-001615-000008
Tank Status: A
Capacity: 10000
Active Date: 02-19-93
Tank Use: M.V. FUEL
STG: P
Content: REG UNLEADED
Number Of Tanks: Not reported

Status: Active
Comp Number: 1615
Number: 1
Board Of Equalization: 44-000506
Referral Date: 12-01-92
Action Date: 03-17-94
Created Date: 02-29-88
Owner Tank Id: 1615-3
SWRCB Tank Id: 19-050-001615-000009
Tank Status: A
Capacity: 10000
Active Date: 02-19-93
Tank Use: M.V. FUEL
STG: P
Content: PRM UNLEADED
Number Of Tanks: Not reported

Status: Active

ARCO #5041 (Continued) **S101297859**

Comp Number: 1615
Number: 1
Board Of Equalization: 44-000506
Referral Date: 12-01-92
Action Date: 03-17-94
Created Date: 02-29-88
Owner Tank Id: 1615-4
SWRCB Tank Id: 19-050-001615-000010
Tank Status: A
Capacity: 10000
Active Date: 02-19-93
Tank Use: M.V. FUEL
STG: P
Content: PREMIUM UNLE
Number Of Tanks: Not reported

Status: Active
Comp Number: 1615
Number: 1
Board Of Equalization: 44-000506
Referral Date: 12-01-92
Action Date: 03-17-94
Created Date: 02-29-88
Owner Tank Id: 1615-5
SWRCB Tank Id: 19-050-001615-000011
Tank Status: A
Capacity: 500
Active Date: 02-19-93
Tank Use: OIL
STG: W
Content: WASTE OIL
Number Of Tanks: Not reported

HIST CORTESE:
Region: CORTESE
Facility County Code: 19
Reg By: LTNKA
Reg Id: 913350561

28
NW
1/4-1/2
0.430 mi.
2269 ft.

Relative:
Higher

Actual:
734 ft.

PACIFIC BELL
6827 RESEDA BLVD
RESEDA, CA 91335

RCRA-SQG **1000249948**
LUST **CAD009227745**
UST
SWEEPS UST
HIST UST
CA FID UST
FINDS
ECHO
EMI
HIST CORTESE

RCRA-SQG:
Date form received by agency: 09/01/1996
Facility name: PACIFIC BELL
Facility address: 6827 RESEDA BLVD
RESEDA, CA 91335
EPA ID: CAD009227745
Mailing address: 170 N FAIR OAKS

PACIFIC BELL (Continued) **1000249948**

PASADENA, CA 91103
Contact: Not reported
Contact address: Not reported
Not reported
Contact country: US
Contact telephone: Not reported
Contact email: Not reported
EPA Region: 09
Classification: Small Small Quantity Generator
Description: Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:
Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Owner
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Owner/operator name: NOT REQUIRED
Owner/operator address: NOT REQUIRED
NOT REQUIRED, ME 99999
Owner/operator country: Not reported
Owner/operator telephone: (415) 555-1212
Legal status: Private
Owner/Operator Type: Operator
Owner/Op start date: Not reported
Owner/Op end date: Not reported

Handler Activities Summary:
U.S. importer of hazardous waste: No
Mixed waste (haz. and radioactive): No
Recycler of hazardous waste: No
Transporter of hazardous waste: No
Treater, storer or disposer of HW: No
Underground injection activity: No
On-site burner exemption: No
Furnace exemption: No
Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 01/20/1981
Site name: PACIFIC BELL

PACIFIC BELL (Continued) **1000249948**

Classification: Large Quantity Generator

Violation Status: No violations found

LUST:

Region:	STATE
Global Id:	T0603702239
Latitude:	34.1946549
Longitude:	-118.5360737
Case Type:	LUST Cleanup Site
Status:	Completed - Case Closed
Status Date:	10/17/1997
Lead Agency:	LOS ANGELES RWQCB (REGION 4)
Case Worker:	JP
Local Agency:	LOS ANGELES, CITY OF
RB Case Number:	913350889
LOC Case Number:	Not reported
File Location:	Not reported
Potential Media Affect:	Aquifer used for drinking water supply
Potential Contaminants of Concern:	Gasoline
Site History:	Not reported

Click here to access the California GeoTracker records for this facility:

Contact:

Global Id:	T0603702239
Contact Type:	Local Agency Caseworker
Contact Name:	ELOY LUNA
Organization Name:	LOS ANGELES, CITY OF
Address:	200 North Main Street, Suite 1780
City:	LOS ANGELES
Email:	eloy.luna@lacity.org
Phone Number:	Not reported

Global Id:	T0603702239
Contact Type:	Regional Board Caseworker
Contact Name:	JOSE PEREYRA
Organization Name:	LOS ANGELES RWQCB (REGION 4)
Address:	Not reported
City:	R4 UNKNOWN
Email:	Not reported
Phone Number:	Not reported

Status History:

Global Id:	T0603702239
Status:	Completed - Case Closed
Status Date:	10/17/1997

Global Id:	T0603702239
Status:	Open - Case Begin Date
Status Date:	08/02/1988

Global Id:	T0603702239
Status:	Open - Site Assessment
Status Date:	08/02/1988

Global Id:	T0603702239
Status:	Open - Site Assessment

PACIFIC BELL (Continued) **1000249948**

Status Date: 05/30/1989

Regulatory Activities:
Global Id: T0603702239
Action Type: Other
Date: 08/02/1988
Action: Leak Discovery

Global Id: T0603702239
Action Type: Other
Date: 05/10/1994
Action: Leak Stopped

Global Id: T0603702239
Action Type: Other
Date: 11/01/1989
Action: Leak Reported

LUST REG 4:
Region: 4
Regional Board: 04
County: Los Angeles
Facility Id: 913350889
Status: Case Closed
Substance: Gasoline
Substance Quantity: Not reported
Local Case No: Not reported
Case Type: Groundwater
Abatement Method Used at the Site: Excavate and Dispose
Global ID: T0603702239
W Global ID: Not reported
Staff: JP
Local Agency: 19050
Cross Street: VANOWEN STREET
Enforcement Type: Not reported
Date Leak Discovered: 8/2/1988
Date Leak First Reported: 11/1/1989
Date Leak Record Entered: 12/5/1989
Date Confirmation Began: 8/2/1988
Date Leak Stopped: 5/10/1994
Date Case Last Changed on Database: 2/12/1998
Date the Case was Closed: 10/17/1997
How Leak Discovered: Subsurface Monitoring
How Leak Stopped: Not reported
Cause of Leak: Overfill
Leak Source: Other Source
Operator: ERNIE CARDENAS
Water System: Not reported
Well Name: Not reported
Approx. Dist To Production Well (ft): 2249.939816748952697152624039 8
Source of Cleanup Funding: Other Source
Preliminary Site Assessment Workplan Submitted: Not reported
Preliminary Site Assessment Began: Not reported
Pollution Characterization Began: 5/30/1989
Remediation Plan Submitted: Not reported

PACIFIC BELL (Continued) **1000249948**

Remedial Action Underway: Not reported
Post Remedial Action Monitoring Began: Not reported
Enforcement Action Date: Not reported
Historical Max MTBE Date: Not reported
Hist Max MTBE Conc in Groundwater: Not reported
Hist Max MTBE Conc in Soil: Not reported
Significant Interim Remedial Action Taken: Yes
GW Qualifier: Not reported
Soil Qualifier: Not reported
Organization: Not reported
Owner Contact: Not reported
Responsible Party: PACIFIC BELL
RP Address: 22012 VANOWEN ST., RM 116, CANOGA PARK, CA 91301
Program: LUST
Lat/Long: 34.1943047 / -1
Local Agency Staff: PEJ
Beneficial Use: Not reported
Priority: Not reported
Cleanup Fund Id: Not reported
Suspended: Not reported
Assigned Name: Not reported
Summary: 02/12/98 - WELL ABANDONMENT REPORT

UST:
Facility ID: 24548
Permitting Agency: LOS ANGELES, CITY OF
Latitude: 34.1962115
Longitude: -118.5351233

SWEEPS UST:
Status: Active
Comp Number: 3407
Number: 9
Board Of Equalization: 44-012968
Referral Date: 04-20-88
Action Date: 04-19-94
Created Date: 02-29-88
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-003407-000001
Tank Status: A
Capacity: 10000
Active Date: 04-20-88
Tank Use: M.V. FUEL
STG: P
Content: DIESEL
Number Of Tanks: 1

HIST UST:
File Number: 00027B4C
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027B4C.pdf
Region: STATE
Facility ID: 00000061301
Facility Type: Other
Other Type: SIC 4800
Contact Name: E.J. KOEHLER
Telephone: 4155426758

PACIFIC BELL (Continued) **1000249948**

Owner Name: PACIFIC BELL
Owner Address: 370 THIRD STREET
Owner City,St,Zip: SAN FRANCISCO, CA 94107
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: 1977
Tank Capacity: 00010000
Tank Used for: PRODUCT
Type of Fuel: DIESEL
Container Construction Thickness: Not reported
Leak Detection: None

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19002180
Regulated By: UTNKA
Regulated ID: 00061301
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 4155426758
Mail To: Not reported
Mailing Address: 177 COLORADO BLVD-ROOM
Mailing Address 2: Not reported
Mailing City,St,Zip: RESEDA 913350000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported
Comments: Not reported
Status: Active

FINDS:

Registry ID: 110002636265

Environmental Interest/Information System
RCRAInfo is a national information system that supports the Resource Conservation and Recovery Act (RCRA) program through the tracking of events and activities related to facilities that generate, transport, and treat, store, or dispose of hazardous waste. RCRAInfo allows RCRA program staff to track the notification, permit, compliance, and corrective action activities required under RCRA.

STATE MASTER

Click this hyperlink while viewing on your computer to access additional FINDS: detail in the EDR Site Report.

ECHO:
Envid: 1000249948
Registry ID: 110002636265

PACIFIC BELL (Continued) **1000249948**

DFR URL: http://echo.epa.gov/detailed-facility-report?fid=110002636265

EMI:

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	10559
Air District Name:	SC
SIC Code:	4813
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	10559
Air District Name:	SC
SIC Code:	4813
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	0
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

HIST CORTESE:

Region:	CORTESE
Facility County Code:	19
Reg By:	LTNKA
Reg Id:	913350889

29
NNW
1/2-1
0.590 mi.
3113 ft.

7027 CANBY AVENUE
7027 CANBY AVE.
RESEDA, CA 91335

ENVIROSTOR **S103697017**
SLIC **N/A**
LA Co. Site Mitigation

Relative:
Higher

Actual:
737 ft.

ENVIROSTOR:

Facility ID:	19281225
Status:	Inactive - Action Required
Status Date:	06/26/2003
Site Code:	Not reported
Site Type:	Evaluation
Site Type Detailed:	Evaluation
Acres:	0.5

7027 CANBY AVENUE (Continued) **S103697017**

NPL: NO
Regulatory Agencies: US EPA
Lead Agency: US EPA
Program Manager: Not reported
Supervisor: Rita Kamat
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 27
Special Program: EPA - PASI
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: EPA Grant
Latitude: 34.1982
Longitude: -118.5357
APN: NONE SPECIFIED
Past Use: MAINTENANCE / CLEANING
Potential COC: * HALOGENATED SOLVENTS
Confirmed COC: NONE SPECIFIED
Potential Description: OTH, SOIL, SV
Alias Name: 301118
Alias Type: Not reported
Alias Name: 19281225
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Preliminary Endangerment Assessment Report
Completed Date: 06/26/2003
Comments: PA is complete. Solvent contamination in GW exists. RR.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SLIC:
Region: STATE
Facility Status: **Open - Inactive**
Status Date: 01/01/1965
Global Id: SLT43196194
Lead Agency: LOS ANGELES RWQCB (REGION 4)
Lead Agency Case Number: Not reported
Latitude: 34.198231
Longitude: -118.53475
Case Type: Cleanup Program Site
Case Worker: LAC
Local Agency: Not reported
RB Case Number: 0298
File Location: Not reported
Potential Media Affected: Not reported
Potential Contaminants of Concern: Not reported

7027 CANBY AVENUE (Continued) **S103697017**

Site History: Not reported

Click here to access the California GeoTracker records for this facility:

SLIC REG 4:
Region: 4
Facility Status: Not reported
SLIC: 0298
Substance: Not reported
Staff: Los Angeles County Fire Department

LA Co. Site Mitigation:
Facility ID: Not reported
Site ID: SD0010558
Jurisdiction: County
Case ID: RO0000517
Abated: Yes
Assigned To: Don Thompson
Entered Date: 05/11/2004
Abated Date: 06/15/1998

30
West
1/2-1
0.716 mi.
3780 ft.

LA JEWISH HOME FOR THE AGING-EISENBERG V **ENVIROSTOR** **S118756564**
18855 VICTORY BLVD. **N/A**
RESEDA, CA 91335

Relative:
Higher

Actual:
735 ft.

ENVIROSTOR:
Facility ID: 19800041
Status: No Action Required
Status Date: 10/18/2002
Site Code: 301143
Site Type: Calmortgage
Site Type Detailed: Calmortgage
Acres: 0.25
NPL: NO
Regulatory Agencies: DTSC
Lead Agency: DTSC
Program Manager: Sandra Karinen
Supervisor: William Beckman
Division Branch: Cleanup Sacramento
Assembly: 45
Senate: 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: CalMortgage
Latitude: 34.18771
Longitude: -118.5437
APN: NONE SPECIFIED
Past Use: NONE
Potential COC: NONE SPECIFIED No Contaminants found
Confirmed COC: No Contaminants found
Potential Description: NMA
Alias Name: LA JEWISH HOME FOR THE AGING-EISENBERG V
Alias Type: Alternate Name
Alias Name: 301143

LA JEWISH HOME FOR THE AGING-EISENBERG V (Continued) **S118756564**

Alias Type: Project Code (Site Code)
Alias Name: 19800041
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Phase 1
Completed Date: 10/18/2002
Comments: Pursuant to the MOU, DTSC has reviewed a Phase I Environmental Site Assessment Report and other documents for the Los Angeles Jewish Home for the Aging (LAJHA). The subject property, Eisenberg Village, is a skilled nursing and residential care facility. LAJHA has recently constructed a new building on the subject property which is being proposed for insurance by Cal-Mortgage. A Supplemental Phase I Environmental Assessment Report was prepared by DTSC and concluded that no action was needed for this property; there is no contamination on the property.

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

G31 **COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FAC** **ENVIROSTOR** **S118353706**
SW **18600 OXNARD STREET** **VCP** **N/A**
1/2-1 **TARZANA, CA 91356**
0.716 mi.
3781 ft. **Site 1 of 2 in cluster G**

Relative:
Higher

Actual:
754 ft.

ENVIROSTOR:
Facility ID: 60001214
Status: Active
Status Date: 11/30/2009
Site Code: 301481
Site Type: Voluntary Cleanup
Site Type Detailed: Voluntary Cleanup
Acres: 1.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Manjul Bose
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: 45
Senate: 27
Special Program: Voluntary Cleanup Program
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.17993
Longitude: -118.5389
APN: 2156-006-019

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Past Use: MANUFACTURING - METAL, METAL FINISHING
Potential COC: Under Investigation Benzene Tetrachloroethylene (PCE Trichloroethylene (TCE
Confirmed COC: Benzene Tetrachloroethylene (PCE Trichloroethylene (TCE
Potential Description: OTH, SOIL, SV
Alias Name: COLUMBIA COLLEGE OF HOLLYWOOD
Alias Type: Alternate Name
Alias Name: FORMER BODYCOTE FACILITY
Alias Type: Alternate Name
Alias Name: 2156-006-019
Alias Type: APN
Alias Name: 301481
Alias Type: Project Code (Site Code)
Alias Name: 60001214
Alias Type: Envirostor ID Number
Alias Name: 60002255
Alias Type: Envirostor ID Number

Completed Info:

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Feasibility Study Report
Completed Date: 01/21/2010
Comments: RP needs to conduct further investigation prior to submittal of FS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/14/2010
Comments: RP is pursuing an SubSlab Depressurization System to be installed soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/28/2010
Comments: RP is not planning on taking this course proposed in workplan.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/04/2011
Comments: SSDS Pilot test workplan has been approved.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/13/2012
Comments: iRAW approval after public comment period and CEQA approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/27/2011
Comments: Final Community Profile

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Completed Document Type: Fact Sheets
Completed Date: 12/27/2011
Comments: Fact Sheet Completed, Comment period started 12/27/2011

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/28/2011
Comments: Indoor air monitoring report reviewed by Tox. No concerns at present moment since SSDS system is going to be activated soon.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/15/2012
Comments: Fieldwork complete.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/04/2013
Comments: RACR Approved

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/28/2013
Comments: reviewed and approved.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/30/2013
Comments: completed

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/12/2013
Comments: Sent email comments. No issues noted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 04/03/2014
Comments: Not reported

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/03/2014
Comments: Approval letter sent.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/31/2015

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Comments:	Report was missing, had to be re-requested from the RP. RP had sent the Report in January of 2015 (physical copy), however PM did not receive the Report (PM was on vacation). No issues with SSDS system. System operating under normal parameters. Report accepted as is.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	09/03/2015
Comments:	Approved
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Monitoring Report
Completed Date:	03/23/2016
Comments:	OM&M Report Approved. System is operating normally and in accordance with performance objectives.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	04/04/2011
Comments:	Invite Letters sent out to bodycote and former property owners.
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Annual Oversight Cost Estimate
Completed Date:	09/27/2016
Comments:	sent
Completed Area Name:	Bodycote Facility
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	02/21/2013
Comments:	Correspondence Sent!
Completed Area Name:	CCH Building
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	02/21/2013
Comments:	Correspondence Sent
Completed Area Name:	Bodycote Facility
Completed Sub Area Name:	Not reported
Completed Document Type:	Correspondence
Completed Date:	01/20/2015
Comments:	letter sent
Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Voluntary Cleanup Agreement
Completed Date:	11/28/2009
Comments:	VCA Signed on 11/28/2009, Uploaded to EnviroStor on 11/30/2009
Completed Area Name:	CCH Building
Completed Sub Area Name:	Not reported
Completed Document Type:	CEQA - Notice of Exemption

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Completed Date:	03/14/2012
Comments:	Filed with OPR
Future Area Name:	Not reported
Future Sub Area Name:	Not reported
Future Document Type:	Not reported
Future Due Date:	Not reported
Schedule Area Name:	Not reported
Schedule Sub Area Name:	Not reported
Schedule Document Type:	Not reported
Schedule Due Date:	Not reported
Schedule Revised Date:	Not reported

VCP:

Facility ID:	60001214
Site Type:	Voluntary Cleanup
Site Type Detail:	Voluntary Cleanup
Site Mgmt. Req.:	NONE SPECIFIED
Acres:	1.25
National Priorities List:	NO
Cleanup Oversight Agencies:	SMBRP
Lead Agency:	SMBRP
Lead Agency Description:	DTSC - Site Cleanup Program
Project Manager:	Manjul Bose
Supervisor:	Juli Propes
Division Branch:	Cleanup Chatsworth
Site Code:	301481
Assembly:	45
Senate:	27
Special Programs Code:	Voluntary Cleanup Program
Status:	Active
Status Date:	11/30/2009
Restricted Use:	NO
Funding:	Responsible Party
Lat/Long:	34.17993 / -118.5389
APN:	2156-006-019
Past Use:	MANUFACTURING - METAL, METAL FINISHING
Potential COC:	31001, 30003, 30022, 30027
Confirmed COC:	30003,30022,30027
Potential Description:	OTH, SOIL, SV
Alias Name:	COLUMBIA COLLEGE OF HOLLYWOOD
Alias Type:	Alternate Name
Alias Name:	FORMER BODYCOTE FACILITY
Alias Type:	Alternate Name
Alias Name:	2156-006-019
Alias Type:	APN
Alias Name:	301481
Alias Type:	Project Code (Site Code)
Alias Name:	60001214
Alias Type:	Envirostor ID Number
Alias Name:	60002255
Alias Type:	Envirostor ID Number

Completed Info:

Completed Area Name:	PROJECT WIDE
Completed Sub Area Name:	Not reported
Completed Document Type:	Feasibility Study Report

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Completed Date: 01/21/2010
Comments: RP needs to conduct further investigation prior to submittal of FS.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Risk Assessment Report
Completed Date: 06/14/2010
Comments: RP is pursuing an SubSlab Depressurization System to be installed soon.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Site Characterization Workplan
Completed Date: 06/28/2010
Comments: RP is not planning on taking this course proposed in workplan.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Pilot Study/Treatability Workplan
Completed Date: 03/04/2011
Comments: SSDS Pilot test workplan has been approved.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Removal Action Workplan
Completed Date: 03/13/2012
Comments: iRAW approval after public comment period and CEQA approval.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Community Profile
Completed Date: 12/27/2011
Comments: Final Community Profile

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Fact Sheets
Completed Date: 12/27/2011
Comments: Fact Sheet Completed, Comment period started 12/27/2011

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 12/28/2011
Comments: Indoor air monitoring report reviewed by Tox. No concerns at present moment since SSDS system is going to be activated soon.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 05/15/2012
Comments: Fieldwork complete.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Remedy Constructed: Operating Properly & Successfully
Completed Date: 06/04/2013

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Comments: RACR Approved

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 06/28/2013
Comments: reviewed and approved.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Report
Completed Date: 09/30/2013
Comments: completed

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 11/12/2013
Comments: Sent email comments. No issues noted.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Operations and Maintenance Plan
Completed Date: 04/03/2014
Comments: Not reported

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/03/2014
Comments: Approval letter sent.

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 07/31/2015
Comments: Report was missing, had to be re-requested from the RP. RP had sent the Report in January of 2015 (physical copy), however PM did not receive the Report (PM was on vacation). No issues with SSDS system. System operating under normal parameters. Report accepted as is.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 09/03/2015
Comments: Approved

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Monitoring Report
Completed Date: 03/23/2016
Comments: OM&M Report Approved. System is operating normally and in accordance with performance objectives.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence

COLUMBIA COLLEGE OF HOLLYWOOD (FORMER BODYCOTE FACILITY) (Continued) **S118353706**

Completed Date: 04/04/2011
Comments: Invite Letters sent out to bodycote and former property owners.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 09/27/2016
Comments: sent

Completed Area Name: Bodycote Facility
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/21/2013
Comments: Correspondence Sent!

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/21/2013
Comments: Correspondence Sent

Completed Area Name: Bodycote Facility
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/20/2015
Comments: letter sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Voluntary Cleanup Agreement
Completed Date: 11/28/2009
Comments: VCA Signed on 11/28/2009, Uploaded to EnviroStor on 11/30/2009

Completed Area Name: CCH Building
Completed Sub Area Name: Not reported
Completed Document Type: CEQA - Notice of Exemption
Completed Date: 03/14/2012
Comments: Filed with OPR

Future Area Name: Not reported
Future Sub Area Name: Not reported
Future Document Type: Not reported
Future Due Date: Not reported
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

G32 **NATIONAL HEAT TREATING CO INC** **RCRA-SQG** **1000260479**
SW **18600 OXNARD ST** **ENVIROSTOR** **CAD008509853**
1/2-1 **TARZANA, CA 91356** **SWEEPS UST**
0.716 mi. **HIST UST**
3781 ft. **Site 2 of 2 in cluster G** **CA FID UST**
EMI
Relative: **WDS**
Higher

Actual: RCRA-SQG:
754 ft.

Date form received by agency:	09/01/1996
Facility name:	NATIONAL HEAT TREATING CO INC
Facility address:	18600 OXNARD ST TARZANA, CA 91356
EPA ID:	CAD008509853
Contact:	Not reported
Contact address:	Not reported Not reported
Contact country:	US
Contact telephone:	Not reported
Contact email:	Not reported
EPA Region:	09
Classification:	Small Small Quantity Generator
Description:	Handler: generates more than 100 and less than 1000 kg of hazardous waste during any calendar month and accumulates less than 6000 kg of hazardous waste at any time; or generates 100 kg or less of hazardous waste during any calendar month, and accumulates more than 1000 kg of hazardous waste at any time

Owner/Operator Summary:

Owner/operator name:	NOT REQUIRED
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Operator
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Owner/operator name:	NATIONAL HEAT TREATING CO INC
Owner/operator address:	NOT REQUIRED NOT REQUIRED, ME 99999
Owner/operator country:	Not reported
Owner/operator telephone:	(415) 555-1212
Legal status:	Private
Owner/Operator Type:	Owner
Owner/Op start date:	Not reported
Owner/Op end date:	Not reported

Handler Activities Summary:

U.S. importer of hazardous waste:	No
Mixed waste (haz. and radioactive):	No
Recycler of hazardous waste:	No
Transporter of hazardous waste:	No
Treater, storer or disposer of HW:	No
Underground injection activity:	No
On-site burner exemption:	No
Furnace exemption:	No

NATIONAL HEAT TREATING CO INC (Continued) **1000260479**

Used oil fuel burner: No
Used oil processor: No
User oil refiner: No
Used oil fuel marketer to burner: No
Used oil Specification marketer: No
Used oil transfer facility: No
Used oil transporter: No

Historical Generators:
Date form received by agency: 07/07/1980
Site name: NATIONAL HEAT TREATING CO INC
Classification: Large Quantity Generator

Violation Status: No violations found

ENVIROSTOR:
Facility ID: 60002255
Status: Active
Status Date: 08/31/2015
Site Code: 530115
Site Type: Corrective Action
Site Type Detailed: Corrective Action
Acres: 1.25
NPL: NO
Regulatory Agencies: SMBRP
Lead Agency: SMBRP
Program Manager: Manjul Bose
Supervisor: Juli Propes
Division Branch: Cleanup Chatsworth
Assembly: , 45
Senate: , 27
Special Program: Not reported
Restricted Use: NO
Site Mgmt Req: NONE SPECIFIED
Funding: Responsible Party
Latitude: 34.17993
Longitude: -118.5389
APN: NONE SPECIFIED
Past Use: MANUFACTURING - METAL, METAL FINISHING
Potential COC: Under Investigation Tetrachloroethylene (PCE Trichloroethylene (TCE Chromium VI
Confirmed COC: Tetrachloroethylene (PCE Trichloroethylene (TCE Under Investigation
Potential Description: CSS, IA, OTH, SOIL, SV, UE
Alias Name: CAD008509853
Alias Type: EPA Identification Number
Alias Name: 530115
Alias Type: Project Code (Site Code)
Alias Name: 60001214
Alias Type: Envirostor ID Number
Alias Name: 60002255
Alias Type: Envirostor ID Number

Completed Info:
Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 02/21/2013
Comments: Letter Sent - done before FICA signed, files from CCoH, but added in

NATIONAL HEAT TREATING CO INC (Continued) **1000260479**

here to document history

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 04/11/2011
Comments: Letter Sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Correspondence
Completed Date: 01/20/2015
Comments: letter sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Annual Oversight Cost Estimate
Completed Date: 10/05/2016
Comments: Sent

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 06/15/2016
Comments: Approved RFI Workplan

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Fieldwork
Completed Date: 09/01/2016
Comments: fieldwork commenced.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: RFI Workplan
Completed Date: 01/20/2017
Comments: RFI Tech Memo Approved.

Completed Area Name: PROJECT WIDE
Completed Sub Area Name: Not reported
Completed Document Type: Consent Agreement
Completed Date: 09/01/2015
Comments: FICA signed. No FICA deliverable, so added under CACA.

Future Area Name: PROJECT WIDE
Future Sub Area Name: Not reported
Future Document Type: RFI Report
Future Due Date: 2017
Schedule Area Name: Not reported
Schedule Sub Area Name: Not reported
Schedule Document Type: Not reported
Schedule Due Date: Not reported
Schedule Revised Date: Not reported

SWEEPS UST:
Status: Not reported
Comp Number: 2781

NATIONAL HEAT TREATING CO INC (Continued) **1000260479**

Number: Not reported
Board Of Equalization: 44-012524
Referral Date: Not reported
Action Date: Not reported
Created Date: Not reported
Owner Tank Id: Not reported
SWRCB Tank Id: 19-050-002781-000001
Tank Status: Not reported
Capacity: 1
Active Date: Not reported
Tank Use: CHEMICAL
STG: PRODUCT
Content: UNKNOWN
Number Of Tanks: 1

HIST UST:
File Number: 00027892
URL: http://geotracker.waterboards.ca.gov/ustpdfs/pdf/00027892.pdf
Region: STATE
Facility ID: 00000050727
Facility Type: Other
Other Type: BRAZING & HEAT TREAT
Contact Name: Not reported
Telephone: 8189962310
Owner Name: NATIONAL HEAT TREATING CO. INC
Owner Address: 18600 OXNARD ST.
Owner City,St,Zip: TARZANA, CA 91356
Total Tanks: 0001

Tank Num: 001
Container Num: 1
Year Installed: Not reported
Tank Capacity: 00000000
Tank Used for: PRODUCT
Type of Fuel: Not reported
Container Construction Thickness: Not reported
Leak Detection: Visual

Click here for Geo Tracker PDF:

CA FID UST:
Facility ID: 19028642
Regulated By: UTNKI
Regulated ID: 00050727
Cortese Code: Not reported
SIC Code: Not reported
Facility Phone: 8189962310
Mail To: Not reported
Mailing Address: 18600 OXNARD ST
Mailing Address 2: Not reported
Mailing City,St,Zip: TARZANA 913560000
Contact: Not reported
Contact Phone: Not reported
DUNs Number: Not reported
NPDES Number: Not reported
EPA ID: Not reported

NATIONAL HEAT TREATING CO INC (Continued) **1000260479**

Comments: Not reported
Status: Inactive

EMI:

Year:	1987
County Code:	19
Air Basin:	SC
Facility ID:	13484
Air District Name:	SC
SIC Code:	3398
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	8
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	0
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1990
County Code:	19
Air Basin:	SC
Facility ID:	13484
Air District Name:	SC
SIC Code:	3398
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	13
Reactive Organic Gases Tons/Yr:	3
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	1
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

Year:	1995
County Code:	19
Air Basin:	SC
Facility ID:	13484
Air District Name:	SC
SIC Code:	3398
Air District Name:	SOUTH COAST AQMD
Community Health Air Pollution Info System:	Not reported
Consolidated Emission Reporting Rule:	Not reported
Total Organic Hydrocarbon Gases Tons/Yr:	1
Reactive Organic Gases Tons/Yr:	0
Carbon Monoxide Emissions Tons/Yr:	0
NOX - Oxides of Nitrogen Tons/Yr:	2
SOX - Oxides of Sulphur Tons/Yr:	0
Particulate Matter Tons/Yr:	0
Part. Matter 10 Micrometers and Smllr Tons/Yr:	0

WDS:

NATIONAL HEAT TREATING CO INC (Continued) **1000260479**

Facility ID:	4 19I001083
Facility Type:	Other - Does not fall into the category of Municipal/Domestic, Industrial, Agricultural or Solid Waste (Class I, II or III)
Facility Status:	Active - Any facility with a continuous or seasonal discharge that is under Waste Discharge Requirements.
NPDES Number:	CAS000001 The 1st 2 characters designate the state. The remaining 7 are assigned by the Regional Board
Subregion:	4
Facility Telephone:	8184330216
Facility Contact:	Phill Stella
Agency Name:	BODYCOTE THERMO PROCESSING
Agency Address:	Not reported
Agency City,St,Zip:	0
Agency Contact:	Not reported
Agency Telephone:	Not reported
Agency Type:	Private
SIC Code:	3398
SIC Code 2:	Not reported
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Primary Waste:	STORMS
Waste Type2:	Not reported
Waste2:	Stormwater Runoff
Primary Waste Type:	Nonhazardous Solid Wastes/Influent or Solid Wastes that contain nonhazardous putrescible and non putrescible solid, semisolid, and liquid wastes (E.G., garbage, trash, refuse, paper, demolition and construction wastes, manure, vegetable or animal solid and semisolid waste).
Secondary Waste:	Not reported
Secondary Waste Type:	Not reported
Design Flow:	0
Baseline Flow:	0
Reclamation:	No reclamation requirements associated with this facility.
POTW:	The facility is not a POTW.
Treat To Water:	Minor Threat to Water Quality. A violation of a regional board order should cause a relatively minor impairment of beneficial uses compared to a major or minor threat. Not: All nurds without a TTWQ will be considered a minor threat to water quality unless coded at a higher Level. A Zero (0) may be used to code those NURDS that are found to represent no threat to water quality.
Complexity:	Category C - Facilities having no waste treatment systems, such as cooling water dischargers or thosewho must comply through best management practices, facilities with passive waste treatment and disposal systems, such as septic systems with subsurface disposal, or dischargers having waste storage systems with land disposal such as dairy waste ponds.

Count: 4 records. ORPHAN SUMMARY

City	EDR ID	Site Name	Site Address	Zip	Database(s)
RESEDA	S103281761	THRIFTY #133/ARCO #9584	8606 RESEDA BLVD	91335	LUST
RESEDA	1003879493	LOEHMANN'S PLAZA	VICTORY & TAMPA BLVDS.	91335	SEMS-ARCHIVE
VAN NUYS	S106387134	MTA - BURBANK BRANCH LINE B-15C	BESSEMER		SLIC
VAN NUYS	S107539857		ON HASKELL BLVD, SOUTH OF VICT		CDL

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

To maintain currency of the following federal and state databases, EDR contacts the appropriate governmental agency on a monthly or quarterly basis, as required.

Number of Days to Update: Provides confirmation that EDR is reporting records that have been updated within 90 days from the date the government agency made the information available to the public.

STANDARD ENVIRONMENTAL RECORDS

Federal NPL site list

NPL: National Priority List

National Priorities List (Superfund). The NPL is a subset of CERCLIS and identifies over 1,200 sites for priority cleanup under the Superfund Program. NPL sites may encompass relatively large areas. As such, EDR provides polygon coverage for over 1,000 NPL site boundaries produced by EPA's Environmental Photographic Interpretation Center (EPIC) and regional EPA offices.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL Site Boundaries

Sources:

EPA's Environmental Photographic Interpretation Center (EPIC)
Telephone: 202-564-7333

EPA Region 1
Telephone 617-918-1143

EPA Region 6
Telephone: 214-655-6659

EPA Region 3
Telephone 215-814-5418

EPA Region 7
Telephone: 913-551-7247

EPA Region 4
Telephone 404-562-8033

EPA Region 8
Telephone: 303-312-6774

EPA Region 5
Telephone 312-886-6686

EPA Region 9
Telephone: 415-947-4246

EPA Region 10
Telephone 206-553-8665

Proposed NPL: Proposed National Priority List Sites

A site that has been proposed for listing on the National Priorities List through the issuance of a proposed rule in the Federal Register. EPA then accepts public comments on the site, responds to the comments, and places on the NPL those sites that continue to meet the requirements for listing.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

NPL LIENS: Federal Superfund Liens

Federal Superfund Liens. Under the authority granted the USEPA by CERCLA of 1980, the USEPA has the authority to file liens against real property in order to recover remedial action expenditures or when the property owner received notification of potential liability. USEPA compiles a listing of filed notices of Superfund Liens.

Date of Government Version: 10/15/1991
Date Data Arrived at EDR: 02/02/1994
Date Made Active in Reports: 03/30/1994
Number of Days to Update: 56

Source: EPA
Telephone: 202-564-4267
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Federal Delisted NPL site list

Delisted NPL: National Priority List Deletions

The National Oil and Hazardous Substances Pollution Contingency Plan (NCP) establishes the criteria that the EPA uses to delete sites from the NPL. In accordance with 40 CFR 300.425.(e), sites may be deleted from the NPL where no further response is appropriate.

Date of Government Version: 04/05/2017
Date Data Arrived at EDR: 04/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 21

Source: EPA
Telephone: N/A
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Federal CERCLIS list

FEDERAL FACILITY: Federal Facility Site Information listing

A listing of National Priority List (NPL) and Base Realignment and Closure (BRAC) sites found in the Comprehensive Environmental Response, Compensation and Liability Information System (CERCLIS) Database where EPA Federal Facilities Restoration and Reuse Office is involved in cleanup activities.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 92

Source: Environmental Protection Agency
Telephone: 703-603-8704
Last EDR Contact: 04/07/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

SEMS: Superfund Enterprise Management System

SEMS (Superfund Enterprise Management System) tracks hazardous waste sites, potentially hazardous waste sites, and remedial activities performed in support of EPA's Superfund Program across the United States. The list was formerly know as CERCLIS, renamed to SEMS by the EPA in 2015. The list contains data on potentially hazardous waste sites that have been reported to the USEPA by states, municipalities, private companies and private persons, pursuant to Section 103 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). This dataset also contains sites which are either proposed to or on the National Priorities List (NPL) and the sites which are in the screening and assessment phase for possible inclusion on the NPL.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal CERCLIS NFRAP site list

SEMS-ARCHIVE: Superfund Enterprise Management System Archive

SEMS-ARCHIVE (Superfund Enterprise Management System Archive) tracks sites that have no further interest under the Federal Superfund Program based on available information. The list was formerly known as the CERCLIS-NFRAP, renamed to SEMS ARCHIVE by the EPA in 2015. EPA may perform a minimal level of assessment work at a site while it is archived if site conditions change and/or new information becomes available. Archived sites have been removed and archived from the inventory of SEMS sites. Archived status indicates that, to the best of EPA's knowledge, assessment at a site has been completed and that EPA has determined no further steps will be taken to list the site on the National Priorities List (NPL), unless information indicates this decision was not appropriate or other considerations require a recommendation for listing at a later time. The decision does not necessarily mean that there is no hazard associated with a given site; it only means that. based upon available information, the location is not judged to be potential NPL site.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 04/19/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 16

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 06/08/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Quarterly

Federal RCRA CORRACTS facilities list

CORRACTS: Corrective Action Report

CORRACTS identifies hazardous waste handlers with RCRA corrective action activity.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: EPA
Telephone: 800-424-9346
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA non-CORRACTS TSD facilities list

RCRA-TSDF: RCRA - Treatment, Storage and Disposal

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Transporters are individuals or entities that move hazardous waste from the generator offsite to a facility that can recycle, treat, store, or dispose of the waste. TSDFs treat, store, or dispose of the waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

Federal RCRA generators list

RCRA-LQG: RCRA - Large Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Large quantity generators (LQGs) generate over 1,000 kilograms (kg) of hazardous waste, or over 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-SQG: RCRA - Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Small quantity generators (SQGs) generate between 100 kg and 1,000 kg of hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Quarterly

RCRA-CESQG: RCRA - Conditionally Exempt Small Quantity Generators

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Conditionally exempt small quantity generators (CESQGs) generate less than 100 kg of hazardous waste, or less than 1 kg of acutely hazardous waste per month.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

Federal institutional controls / engineering controls registries

LUCIS: Land Use Control Information System

LUCIS contains records of land use control information pertaining to the former Navy Base Realignment and Closure properties.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 93

Source: Department of the Navy
Telephone: 843-820-7326
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US ENG CONTROLS: Engineering Controls Sites List

A listing of sites with engineering controls in place. Engineering controls include various forms of caps, building foundations, liners, and treatment methods to create pathway elimination for regulated substances to enter environmental media or effect human health.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US INST CONTROL: Sites with Institutional Controls

A listing of sites with institutional controls in place. Institutional controls include administrative measures, such as groundwater use restrictions, construction restrictions, property use restrictions, and post remediation care requirements intended to prevent exposure to contaminants remaining on site. Deed restrictions are generally required as part of the institutional controls.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 101

Source: Environmental Protection Agency
Telephone: 703-603-0695
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

Federal ERNS list

ERNS: Emergency Response Notification System

Emergency Response Notification System. ERNS records and stores information on reported releases of oil and hazardous substances.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 11/11/2016
Number of Days to Update: 43

Source: National Response Center, United States Coast Guard
Telephone: 202-267-2180
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

State- and tribal - equivalent NPL

RESPONSE: State Response Sites

Identifies confirmed release sites where DTSC is involved in remediation, either in a lead or oversight capacity. These confirmed release sites are generally high-priority and high potential risk.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State- and tribal - equivalent CERCLIS

ENVIROSTOR: EnviroStor Database

The Department of Toxic Substances Control's (DTSC's) Site Mitigation and Brownfields Reuse Program's (SMBRP's) EnviroStor database identifes sites that have known contamination or sites for which there may be reasons to investigate further. The database includes the following site types: Federal Superfund sites (National Priorities List (NPL)); State Response, including Military Facilities and State Superfund; Voluntary Cleanup; and School sites. EnviroStor provides similar information to the information that was available in CalSites, and provides additional site information, including, but not limited to, identification of formerly-contaminated properties that have been released for reuse, properties where environmental deed restrictions have been recorded to prevent inappropriate land uses, and risk characterization information that is used to assess potential impacts to public health and the environment at contaminated sites.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal landfill and/or solid waste disposal site lists

SWF/LF (SWIS): Solid Waste Information System

Active, Closed and Inactive Landfills. SWF/LF records typically contain an inve ntory of solid waste disposal facilities or landfills. These may be active or i nactive facilities or open dumps that failed to meet RCRA Section 4004 criteria for solid waste landfills or disposal sites.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 76

Source: Department of Resources Recycling and Recovery
Telephone: 916-341-6320
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

State and tribal leaking storage tank lists

LUST: Leaking Underground Fuel Tank Report (GEOTRACKER)

Leaking Underground Storage Tank (LUST) Sites included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: see region list
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

LUST REG 6V: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Inyo, Kern, Los Angeles, Mono, San Bernardino counties.

Date of Government Version: 06/07/2005
Date Data Arrived at EDR: 06/07/2005
Date Made Active in Reports: 06/29/2005
Number of Days to Update: 22

Source: California Regional Water Quality Control Board Victorville Branch Office (6)
Telephone: 760-241-7365
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 4: Underground Storage Tank Leak List

Los Angeles, Ventura counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35

Source: California Regional Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6710
Last EDR Contact: 09/06/2011
Next Scheduled EDR Contact: 12/19/2011
Data Release Frequency: No Update Planned

LUST REG 3: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Monterey, San Benito, San Luis Obispo, Santa Barbara, Santa Cruz counties.

Date of Government Version: 05/19/2003
Date Data Arrived at EDR: 05/19/2003
Date Made Active in Reports: 06/02/2003
Number of Days to Update: 14

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-542-4786
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: No Update Planned

LUST REG 2: Fuel Leak List

Leaking Underground Storage Tank locations. Alameda, Contra Costa, Marin, Napa, San Francisco, San Mateo, Santa Clara, Solano, Sonoma counties.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: California Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-622-2433
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

LUST REG 1: Active Toxic Site Investigation

Del Norte, Humboldt, Lake, Mendocino, Modoc, Siskiyou, Sonoma, Trinity counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/01/2001
Date Data Arrived at EDR: 02/28/2001
Date Made Active in Reports: 03/29/2001
Number of Days to Update: 29

Source: California Regional Water Quality Control Board North Coast (1)
Telephone: 707-570-3769
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 6L: Leaking Underground Storage Tank Case Listing

For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 09/09/2003
Date Data Arrived at EDR: 09/10/2003
Date Made Active in Reports: 10/07/2003
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Lahontan Region (6)
Telephone: 530-542-5572
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: No Update Planned

LUST REG 5: Leaking Underground Storage Tank Database

Leaking Underground Storage Tank locations. Alameda, Alpine, Amador, Butte, Colusa, Contra Costa, Calveras, El Dorado, Fresno, Glenn, Kern, Kings, Lake, Lassen, Madera, Mariposa, Merced, Modoc, Napa, Nevada, Placer, Plumas, Sacramento, San Joaquin, Shasta, Solano, Stanislaus, Sutter, Tehama, Tulare, Tuolumne, Yolo, Yuba counties.

Date of Government Version: 07/01/2008
Date Data Arrived at EDR: 07/22/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 9

Source: California Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-4834
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: No Update Planned

LUST REG 7: Leaking Underground Storage Tank Case Listing

Leaking Underground Storage Tank locations. Imperial, Riverside, San Diego, Santa Barbara counties.

Date of Government Version: 02/26/2004
Date Data Arrived at EDR: 02/26/2004
Date Made Active in Reports: 03/24/2004
Number of Days to Update: 27

Source: California Regional Water Quality Control Board Colorado River Basin Region (7)
Telephone: 760-776-8943
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

LUST REG 8: Leaking Underground Storage Tanks

California Regional Water Quality Control Board Santa Ana Region (8). For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 02/14/2005
Date Data Arrived at EDR: 02/15/2005
Date Made Active in Reports: 03/28/2005
Number of Days to Update: 41

Source: California Regional Water Quality Control Board Santa Ana Region (8)
Telephone: 909-782-4496
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Varies

LUST REG 9: Leaking Underground Storage Tank Report

Orange, Riverside, San Diego counties. For more current information, please refer to the State Water Resources Control Board's LUST database.

Date of Government Version: 03/01/2001
Date Data Arrived at EDR: 04/23/2001
Date Made Active in Reports: 05/21/2001
Number of Days to Update: 28

Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-637-5595
Last EDR Contact: 09/26/2011
Next Scheduled EDR Contact: 01/09/2012
Data Release Frequency: No Update Planned

INDIAN LUST R1: Leaking Underground Storage Tanks on Indian Land

A listing of leaking underground storage tank locations on Indian Land.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R4: Leaking Underground Storage Tanks on Indian Land

LUSTs on Indian land in Florida, Mississippi and North Carolina.

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-8677
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN LUST R10: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Alaska, Idaho, Oregon and Washington.

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R9: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Arizona, California, New Mexico and Nevada

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: Environmental Protection Agency
Telephone: 415-972-3372
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R6: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in New Mexico and Oklahoma.

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-6597
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R5: Leaking Underground Storage Tanks on Indian Land
Leaking underground storage tanks located on Indian Land in Michigan, Minnesota and Wisconsin.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA, Region 5
Telephone: 312-886-7439
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN LUST R8: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Colorado, Montana, North Dakota, South Dakota, Utah and Wyoming.

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6271
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN LUST R7: Leaking Underground Storage Tanks on Indian Land
LUSTs on Indian land in Iowa, Kansas, and Nebraska

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

SLIC: Statewide SLIC Cases (GEOTRACKER)
Cleanup Program Sites (CPS; also known as Site Cleanups [SC] and formerly known as Spills, Leaks, Investigations, and Cleanups [SLIC] sites) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49
Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

SLIC REG 1: Active Toxic Site Investigations

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2003
Date Data Arrived at EDR: 04/07/2003
Date Made Active in Reports: 04/25/2003
Number of Days to Update: 18

Source: California Regional Water Quality Control Board, North Coast Region (1)
Telephone: 707-576-2220
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 2: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/30/2004
Date Data Arrived at EDR: 10/20/2004
Date Made Active in Reports: 11/19/2004
Number of Days to Update: 30

Source: Regional Water Quality Control Board San Francisco Bay Region (2)
Telephone: 510-286-0457
Last EDR Contact: 09/19/2011
Next Scheduled EDR Contact: 01/02/2012
Data Release Frequency: Quarterly

SLIC REG 3: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/18/2006
Date Data Arrived at EDR: 05/18/2006
Date Made Active in Reports: 06/15/2006
Number of Days to Update: 28

Source: California Regional Water Quality Control Board Central Coast Region (3)
Telephone: 805-549-3147
Last EDR Contact: 07/18/2011
Next Scheduled EDR Contact: 10/31/2011
Data Release Frequency: Semi-Annually

SLIC REG 4: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/17/2004
Date Data Arrived at EDR: 11/18/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 47

Source: Region Water Quality Control Board Los Angeles Region (4)
Telephone: 213-576-6600
Last EDR Contact: 07/01/2011
Next Scheduled EDR Contact: 10/17/2011
Data Release Frequency: Varies

SLIC REG 5: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/01/2005
Date Data Arrived at EDR: 04/05/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 16

Source: Regional Water Quality Control Board Central Valley Region (5)
Telephone: 916-464-3291
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 6V: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing

The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 05/24/2005
Date Data Arrived at EDR: 05/25/2005
Date Made Active in Reports: 06/16/2005
Number of Days to Update: 22

Source: Regional Water Quality Control Board, Victorville Branch
Telephone: 619-241-6583
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: Semi-Annually

SLIC REG 6L: SLIC Sites
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/07/2004
Date Data Arrived at EDR: 09/07/2004
Date Made Active in Reports: 10/12/2004
Number of Days to Update: 35
Source: California Regional Water Quality Control Board, Lahontan Region
Telephone: 530-542-5574
Last EDR Contact: 08/15/2011
Next Scheduled EDR Contact: 11/28/2011
Data Release Frequency: No Update Planned

SLIC REG 7: SLIC List
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 11/24/2004
Date Data Arrived at EDR: 11/29/2004
Date Made Active in Reports: 01/04/2005
Number of Days to Update: 36
Source: California Regional Quality Control Board, Colorado River Basin Region
Telephone: 760-346-7491
Last EDR Contact: 08/01/2011
Next Scheduled EDR Contact: 11/14/2011
Data Release Frequency: No Update Planned

SLIC REG 8: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 04/03/2008
Date Data Arrived at EDR: 04/03/2008
Date Made Active in Reports: 04/14/2008
Number of Days to Update: 11
Source: California Region Water Quality Control Board Santa Ana Region (8)
Telephone: 951-782-3298
Last EDR Contact: 09/12/2011
Next Scheduled EDR Contact: 12/26/2011
Data Release Frequency: Semi-Annually

SLIC REG 9: Spills, Leaks, Investigation & Cleanup Cost Recovery Listing
The SLIC (Spills, Leaks, Investigations and Cleanup) program is designed to protect and restore water quality from spills, leaks, and similar discharges.

Date of Government Version: 09/10/2007
Date Data Arrived at EDR: 09/11/2007
Date Made Active in Reports: 09/28/2007
Number of Days to Update: 17
Source: California Regional Water Quality Control Board San Diego Region (9)
Telephone: 858-467-2980
Last EDR Contact: 08/08/2011
Next Scheduled EDR Contact: 11/21/2011
Data Release Frequency: Annually

State and tribal registered storage tank lists

FEMA UST: Underground Storage Tank Listing
A listing of all FEMA owned underground storage tanks.

Date of Government Version: 01/01/2010
Date Data Arrived at EDR: 02/16/2010
Date Made Active in Reports: 04/12/2010
Number of Days to Update: 55
Source: FEMA
Telephone: 202-646-5797
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

UST: Active UST Facilities
Active UST facilities gathered from the local regulatory agencies

Date of Government Version: 03/12/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 57
Source: SWRCB
Telephone: 916-341-5851
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

AST: Aboveground Petroleum Storage Tank Facilities
A listing of aboveground storage tank petroleum storage tank locations.

Date of Government Version: 07/06/2016
Date Data Arrived at EDR: 07/12/2016
Date Made Active in Reports: 09/19/2016
Number of Days to Update: 69
Source: California Environmental Protection Agency
Telephone: 916-327-5092
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

INDIAN UST R5: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 5 (Michigan, Minnesota and Wisconsin and Tribal Nations).

Date of Government Version: 01/14/2017
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 5
Telephone: 312-886-6136
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R6: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 6 (Louisiana, Arkansas, Oklahoma, New Mexico, Texas and 65 Tribes).

Date of Government Version: 10/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 6
Telephone: 214-665-7591
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R7: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 7 (Iowa, Kansas, Missouri, Nebraska, and 9 Tribal Nations).

Date of Government Version: 09/01/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 7
Telephone: 913-551-7003
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R8: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 8 (Colorado, Montana, North Dakota, South Dakota, Utah, Wyoming and 27 Tribal Nations).

Date of Government Version: 10/17/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 8
Telephone: 303-312-6137
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R9: Underground Storage Tanks on Indian Land
The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 9 (Arizona, California, Hawaii, Nevada, the Pacific Islands, and Tribal Nations).

Date of Government Version: 10/06/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99
Source: EPA Region 9
Telephone: 415-972-3368
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

INDIAN UST R1: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 1 (Connecticut, Maine, Massachusetts, New Hampshire, Rhode Island, Vermont and ten Tribal Nations).

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA, Region 1
Telephone: 617-918-1313
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INDIAN UST R4: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 4 (Alabama, Florida, Georgia, Kentucky, Mississippi, North Carolina, South Carolina, Tennessee and Tribal Nations)

Date of Government Version: 10/14/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 98

Source: EPA Region 4
Telephone: 404-562-9424
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Semi-Annually

INDIAN UST R10: Underground Storage Tanks on Indian Land

The Indian Underground Storage Tank (UST) database provides information about underground storage tanks on Indian land in EPA Region 10 (Alaska, Idaho, Oregon, Washington, and Tribal Nations).

Date of Government Version: 10/07/2016
Date Data Arrived at EDR: 01/26/2017
Date Made Active in Reports: 05/05/2017
Number of Days to Update: 99

Source: EPA Region 10
Telephone: 206-553-2857
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

State and tribal voluntary cleanup sites

INDIAN VCP R1: Voluntary Cleanup Priority Listing

A listing of voluntary cleanup priority sites located on Indian Land located in Region 1.

Date of Government Version: 07/27/2015
Date Data Arrived at EDR: 09/29/2015
Date Made Active in Reports: 02/18/2016
Number of Days to Update: 142

Source: EPA, Region 1
Telephone: 617-918-1102
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

INDIAN VCP R7: Voluntary Cleanup Priority Lisitng

A listing of voluntary cleanup priority sites located on Indian Land located in Region 7.

Date of Government Version: 03/20/2008
Date Data Arrived at EDR: 04/22/2008
Date Made Active in Reports: 05/19/2008
Number of Days to Update: 27

Source: EPA, Region 7
Telephone: 913-551-7365
Last EDR Contact: 04/20/2009
Next Scheduled EDR Contact: 07/20/2009
Data Release Frequency: Varies

VCP: Voluntary Cleanup Program Properties

Contains low threat level properties with either confirmed or unconfirmed releases and the project proponents have request that DTSC oversee investigation and/or cleanup activities and have agreed to provide coverage for DTSC's costs.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

State and tribal Brownfields sites

BROWNFIELDS: Considered Brownfieds Sites Listing
A listing of sites the SWRCB considers to be Brownfields since these are sites have come to them through the MOA Process.

Date of Government Version: 01/03/2017
Date Data Arrived at EDR: 01/04/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 57
Source: State Water Resources Control Board
Telephone: 916-323-7905
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

ADDITIONAL ENVIRONMENTAL RECORDS

Local Brownfield lists

US BROWNFIELDS: A Listing of Brownfields Sites
Brownfields are real property, the expansion, redevelopment, or reuse of which may be complicated by the presence or potential presence of a hazardous substance, pollutant, or contaminant. Cleaning up and reinvesting in these properties takes development pressures off of undeveloped, open land, and both improves and protects the environment. Assessment, Cleanup and Redevelopment Exchange System (ACRES) stores information reported by EPA Brownfields grant recipients on brownfields properties assessed or cleaned up with grant funding as well as information on Targeted Brownfields Assessments performed by EPA Regions. A listing of ACRES Brownfield sites is obtained from Cleanups in My Community. Cleanups in My Community provides information on Brownfields properties for which information is reported back to EPA, as well as areas served by Brownfields grant programs.

Date of Government Version: 03/02/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 36
Source: Environmental Protection Agency
Telephone: 202-566-2777
Last EDR Contact: 03/02/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

Local Lists of Landfill / Solid Waste Disposal Sites

WMUDS/SWAT: Waste Management Unit Database
Waste Management Unit Database System. WMUDS is used by the State Water Resources Control Board staff and the Regional Water Quality Control Boards for program tracking and inventory of waste management units. WMUDS is composed of the following databases: Facility Information, Scheduled Inspections Information, Waste Management Unit Information, SWAT Program Information, SWAT Report Summary Information, SWAT Report Summary Data, Chapter 15 (formerly Subchapter 15) Information, Chapter 15 Monitoring Parameters, TPCA Program Information, RCRA Program Information, Closure Information, and Interested Parties Information.

Date of Government Version: 04/01/2000
Date Data Arrived at EDR: 04/10/2000
Date Made Active in Reports: 05/10/2000
Number of Days to Update: 30
Source: State Water Resources Control Board
Telephone: 916-227-4448
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: No Update Planned

SWRCY: Recycler Database
A listing of recycling facilities in California.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50
Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

HAULERS: Registered Waste Tire Haulers Listing
A listing of registered waste tire haulers.

Date of Government Version: 01/13/2017
Date Data Arrived at EDR: 01/17/2017
Date Made Active in Reports: 05/31/2017
Number of Days to Update: 134
Source: Integrated Waste Management Board
Telephone: 916-341-6422
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

INDIAN ODI: Report on the Status of Open Dumps on Indian Lands
Location of open dumps on Indian land.

Date of Government Version: 12/31/1998
Date Data Arrived at EDR: 12/03/2007
Date Made Active in Reports: 01/24/2008
Number of Days to Update: 52
Source: Environmental Protection Agency
Telephone: 703-308-8245
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ODI: Open Dump Inventory
An open dump is defined as a disposal facility that does not comply with one or more of the Part 257 or Part 258 Subtitle D Criteria.

Date of Government Version: 06/30/1985
Date Data Arrived at EDR: 08/09/2004
Date Made Active in Reports: 09/17/2004
Number of Days to Update: 39
Source: Environmental Protection Agency
Telephone: 800-424-9346
Last EDR Contact: 06/09/2004
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

DEBRIS REGION 9: Torres Martinez Reservation Illegal Dump Site Locations
A listing of illegal dump sites location on the Torres Martinez Indian Reservation located in eastern Riverside County and northern Imperial County, California.

Date of Government Version: 01/12/2009
Date Data Arrived at EDR: 05/07/2009
Date Made Active in Reports: 09/21/2009
Number of Days to Update: 137
Source: EPA, Region 9
Telephone: 415-947-4219
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: No Update Planned

IHS OPEN DUMPS: Open Dumps on Indian Land
A listing of all open dumps located on Indian Land in the United States.

Date of Government Version: 04/01/2014
Date Data Arrived at EDR: 08/06/2014
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 176
Source: Department of Health & Human Serivces, Indian Health Service
Telephone: 301-443-1452
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

Local Lists of Hazardous waste / Contaminated Sites

US HIST CDL: National Clandestine Laboratory Register
A listing of clandestine drug lab locations that have been removed from the DEAs National Clandestine Laboratory Register.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93
Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 02/28/2017
Next Scheduled EDR Contact: 06/12/2017
Data Release Frequency: No Update Planned

HIST CAL-SITES: Calsites Database
The Calsites database contains potential or confirmed hazardous substance release properties. In 1996, California EPA reevaluated and significantly reduced the number of sites in the Calsites database. No longer updated by the state agency. It has been replaced by ENVIROSTOR.

Date of Government Version: 08/08/2005
Date Data Arrived at EDR: 08/03/2006
Date Made Active in Reports: 08/24/2006
Number of Days to Update: 21

Source: Department of Toxic Substance Control
Telephone: 916-323-3400
Last EDR Contact: 02/23/2009
Next Scheduled EDR Contact: 05/25/2009
Data Release Frequency: No Update Planned

SCH: School Property Evaluation Program

This category contains proposed and existing school sites that are being evaluated by DTSC for possible hazardous materials contamination. In some cases, these properties may be listed in the CalSites category depending on the level of threat to public health and safety or the environment they pose.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Quarterly

CDL: Clandestine Drug Labs

A listing of drug lab locations. Listing of a location in this database does not indicate that any illegal drug lab materials were or were not present there, and does not constitute a determination that the location either requires or does not require additional cleanup work.

Date of Government Version: 12/31/2016
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 54

Source: Department of Toxic Substances Control
Telephone: 916-255-6504
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

TOXIC PITS: Toxic Pits Cleanup Act Sites

Toxic PITS Cleanup Act Sites. TOXIC PITS identifies sites suspected of containing hazardous substances where cleanup has not yet been completed.

Date of Government Version: 07/01/1995
Date Data Arrived at EDR: 08/30/1995
Date Made Active in Reports: 09/26/1995
Number of Days to Update: 27

Source: State Water Resources Control Board
Telephone: 916-227-4364
Last EDR Contact: 01/26/2009
Next Scheduled EDR Contact: 04/27/2009
Data Release Frequency: No Update Planned

US CDL: Clandestine Drug Labs

A listing of clandestine drug lab locations. The U.S. Department of Justice ("the Department") provides this web site as a public service. It contains addresses of some locations where law enforcement agencies reported they found chemicals or other items that indicated the presence of either clandestine drug laboratories or dumpsites. In most cases, the source of the entries is not the Department, and the Department has not verified the entry and does not guarantee its accuracy. Members of the public must verify the accuracy of all entries by, for example, contacting local law enforcement and local health departments.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 06/09/2017
Number of Days to Update: 93

Source: Drug Enforcement Administration
Telephone: 202-307-1000
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Quarterly

Local Lists of Registered Storage Tanks

SWEEPS UST: SWEEPS UST Listing

Statewide Environmental Evaluation and Planning System. This underground storage tank listing was updated and maintained by a company contacted by the SWRCB in the early 1990's. The listing is no longer updated or maintained. The local agency is the contact for more information on a site on the SWEEPS list.

Date of Government Version: 06/01/1994
Date Data Arrived at EDR: 07/07/2005
Date Made Active in Reports: 08/11/2005
Number of Days to Update: 35

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/03/2005
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

UST MENDOCINO: Mendocino County UST Database
A listing of underground storage tank locations in Mendocino County.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Department of Public Health
Telephone: 707-463-4466
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

HIST UST: Hazardous Substance Storage Container Database
The Hazardous Substance Storage Container Database is a historical listing of UST sites. Refer to local/county source for current data.

Date of Government Version: 10/15/1990
Date Data Arrived at EDR: 01/25/1991
Date Made Active in Reports: 02/12/1991
Number of Days to Update: 18

Source: State Water Resources Control Board
Telephone: 916-341-5851
Last EDR Contact: 07/26/2001
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CA FID UST: Facility Inventory Database
The Facility Inventory Database (FID) contains a historical listing of active and inactive underground storage tank locations from the State Water Resource Control Board. Refer to local/county source for current data.

Date of Government Version: 10/31/1994
Date Data Arrived at EDR: 09/05/1995
Date Made Active in Reports: 09/29/1995
Number of Days to Update: 24

Source: California Environmental Protection Agency
Telephone: 916-341-5851
Last EDR Contact: 12/28/1998
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Local Land Records

LIENS: Environmental Liens Listing
A listing of property locations with environmental liens for California where DTSC is a lien holder.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 45

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

LIENS 2: CERCLA Lien Information
A Federal CERCLA ('Superfund') lien can exist by operation of law at any site or property at which EPA has spent Superfund monies. These monies are spent to investigate and address releases and threatened releases of contamination. CERCLIS provides information as to the identity of these sites and properties.

Date of Government Version: 02/18/2014
Date Data Arrived at EDR: 03/18/2014
Date Made Active in Reports: 04/24/2014
Number of Days to Update: 37

Source: Environmental Protection Agency
Telephone: 202-564-6023
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

DEED: Deed Restriction Listing

Site Mitigation and Brownfields Reuse Program Facility Sites with Deed Restrictions & Hazardous Waste Management Program Facility Sites with Deed / Land Use Restriction. The DTSC Site Mitigation and Brownfields Reuse Program (SMBRP) list includes sites cleaned up under the program's oversight and generally does not include current or former hazardous waste facilities that required a hazardous waste facility permit. The list represents deed restrictions that are active. Some sites have multiple deed restrictions. The DTSC Hazardous Waste Management Program (HWMP) has developed a list of current or former hazardous waste facilities that have a recorded land use restriction at the local county recorder's office. The land use restrictions on this list were required by the DTSC HWMP as a result of the presence of hazardous substances that remain on site after the facility (or part of the facility) has been closed or cleaned up. The types of land use restriction include deed notice, deed restriction, or a land use restriction that binds current and future owners.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 77

Source: DTSC and SWRCB
Telephone: 916-323-3400
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

Records of Emergency Release Reports

HMIRS: Hazardous Materials Information Reporting System

Hazardous Materials Incident Report System. HMIRS contains hazardous material spill incidents reported to DOT.

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 37

Source: U.S. Department of Transportation
Telephone: 202-366-4555
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

CHMIRS: California Hazardous Material Incident Report System

California Hazardous Material Incident Reporting System. CHMIRS contains information on reported hazardous material incidents (accidental releases or spills).

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 105

Source: Office of Emergency Services
Telephone: 916-845-8400
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LDS: Land Disposal Sites Listing (GEOTRACKER)

Land Disposal sites (Landfills) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Qualilty Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

MCS: Military Cleanup Sites Listing (GEOTRACKER)

Military sites (consisting of: Military UST sites; Military Privatized sites; and Military Cleanup sites [formerly known as DoD non UST]) included in GeoTracker. GeoTracker is the Water Boards data management system for sites that impact, or have the potential to impact, water quality in California, with emphasis on groundwater.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 49

Source: State Water Resources Control Board
Telephone: 866-480-1028
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SPILLS 90: SPILLS90 data from FirstSearch

Spills 90 includes those spill and release records available exclusively from FirstSearch databases. Typically, they may include chemical, oil and/or hazardous substance spills recorded after 1990. Duplicate records that are already included in EDR incident and release records are not included in Spills 90.

Date of Government Version: 06/06/2012
Date Data Arrived at EDR: 01/03/2013
Date Made Active in Reports: 02/22/2013
Number of Days to Update: 50

Source: FirstSearch
Telephone: N/A
Last EDR Contact: 01/03/2013
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

Other Ascertainable Records

RCRA NonGen / NLR: RCRA - Non Generators / No Longer Regulated

RCRAInfo is EPA's comprehensive information system, providing access to data supporting the Resource Conservation and Recovery Act (RCRA) of 1976 and the Hazardous and Solid Waste Amendments (HSWA) of 1984. The database includes selective information on sites which generate, transport, store, treat and/or dispose of hazardous waste as defined by the Resource Conservation and Recovery Act (RCRA). Non-Generators do not presently generate hazardous waste.

Date of Government Version: 12/12/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 44

Source: Environmental Protection Agency
Telephone: (415) 495-8895
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Varies

FUDS: Formerly Used Defense Sites

The listing includes locations of Formerly Used Defense Sites properties where the US Army Corps of Engineers is actively working or will take necessary cleanup actions.

Date of Government Version: 01/31/2015
Date Data Arrived at EDR: 07/08/2015
Date Made Active in Reports: 10/13/2015
Number of Days to Update: 97

Source: U.S. Army Corps of Engineers
Telephone: 202-528-4285
Last EDR Contact: 02/24/2017
Next Scheduled EDR Contact: 06/05/2017
Data Release Frequency: Varies

DOD: Department of Defense Sites

This data set consists of federally owned or administered lands, administered by the Department of Defense, that have any area equal to or greater than 640 acres of the United States, Puerto Rico, and the U.S. Virgin Islands.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 11/10/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 62

Source: USGS
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FEDLAND: Federal and Indian Lands

Federally and Indian administrated lands of the United States. Lands included are administrated by: Army Corps of Engineers, Bureau of Reclamation, National Wild and Scenic River, National Wildlife Refuge, Public Domain Land, Wilderness, Wilderness Study Area, Wildlife Management Area, Bureau of Indian Affairs, Bureau of Land Management, Department of Justice, Forest Service, Fish and Wildlife Service, National Park Service.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 02/06/2006
Date Made Active in Reports: 01/11/2007
Number of Days to Update: 339

Source: U.S. Geological Survey
Telephone: 888-275-8747
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: N/A

SCRD DRYCLEANERS: State Coalition for Remediation of Drycleaners Listing

The State Coalition for Remediation of Drycleaners was established in 1998, with support from the U.S. EPA Office of Superfund Remediation and Technology Innovation. It is comprised of representatives of states with established drycleaner remediation programs. Currently the member states are Alabama, Connecticut, Florida, Illinois, Kansas, Minnesota, Missouri, North Carolina, Oregon, South Carolina, Tennessee, Texas, and Wisconsin.

Date of Government Version: 01/01/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 63

Source: Environmental Protection Agency
Telephone: 615-532-8599
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

US FIN ASSUR: Financial Assurance Information

All owners and operators of facilities that treat, store, or dispose of hazardous waste are required to provide proof that they will have sufficient funds to pay for the clean up, closure, and post-closure care of their facilities.

Date of Government Version: 02/13/2017
Date Data Arrived at EDR: 02/15/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 86

Source: Environmental Protection Agency
Telephone: 202-566-1917
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

EPA WATCH LIST: EPA WATCH LIST

EPA maintains a "Watch List" to facilitate dialogue between EPA, state and local environmental agencies on enforcement matters relating to facilities with alleged violations identified as either significant or high priority. Being on the Watch List does not mean that the facility has actually violated the law only that an investigation by EPA or a state or local environmental agency has led those organizations to allege that an unproven violation has in fact occurred. Being on the Watch List does not represent a higher level of concern regarding the alleged violations that were detected, but instead indicates cases requiring additional dialogue between EPA, state and local agencies - primarily because of the length of time the alleged violation has gone unaddressed or unresolved.

Date of Government Version: 08/30/2013
Date Data Arrived at EDR: 03/21/2014
Date Made Active in Reports: 06/17/2014
Number of Days to Update: 88

Source: Environmental Protection Agency
Telephone: 617-520-3000
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

2020 COR ACTION: 2020 Corrective Action Program List

The EPA has set ambitious goals for the RCRA Corrective Action program by creating the 2020 Corrective Action Universe. This RCRA cleanup baseline includes facilities expected to need corrective action. The 2020 universe contains a wide variety of sites. Some properties are heavily contaminated while others were contaminated but have since been cleaned up. Still others have not been fully investigated yet, and may require little or no remediation. Inclusion in the 2020 Universe does not necessarily imply failure on the part of a facility to meet its RCRA obligations.

Date of Government Version: 04/22/2013
Date Data Arrived at EDR: 03/03/2015
Date Made Active in Reports: 03/09/2015
Number of Days to Update: 6

Source: Environmental Protection Agency
Telephone: 703-308-4044
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TSCA: Toxic Substances Control Act

Toxic Substances Control Act. TSCA identifies manufacturers and importers of chemical substances included on the TSCA Chemical Substance Inventory list. It includes data on the production volume of these substances by plant site.

Date of Government Version: 12/31/2012
Date Data Arrived at EDR: 01/15/2015
Date Made Active in Reports: 01/29/2015
Number of Days to Update: 14

Source: EPA
Telephone: 202-260-5521
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Every 4 Years

TRIS: Toxic Chemical Release Inventory System

Toxic Release Inventory System. TRIS identifies facilities which release toxic chemicals to the air, water and land in reportable quantities under SARA Title III Section 313.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 11/24/2015
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 133

Source: EPA
Telephone: 202-566-0250
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

SSTS: Section 7 Tracking Systems

Section 7 of the Federal Insecticide, Fungicide and Rodenticide Act, as amended (92 Stat. 829) requires all registered pesticide-producing establishments to submit a report to the Environmental Protection Agency by March 1st each year. Each establishment must report the types and amounts of pesticides, active ingredients and devices being produced, and those having been produced and sold or distributed in the past year.

Date of Government Version: 12/31/2009
Date Data Arrived at EDR: 12/10/2010
Date Made Active in Reports: 02/25/2011
Number of Days to Update: 77

Source: EPA
Telephone: 202-564-4203
Last EDR Contact: 04/26/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

ROD: Records Of Decision

Record of Decision. ROD documents mandate a permanent remedy at an NPL (Superfund) site containing technical and health information to aid in the cleanup.

Date of Government Version: 11/25/2013
Date Data Arrived at EDR: 12/12/2013
Date Made Active in Reports: 02/24/2014
Number of Days to Update: 74

Source: EPA
Telephone: 703-416-0223
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

RMP: Risk Management Plans

When Congress passed the Clean Air Act Amendments of 1990, it required EPA to publish regulations and guidance for chemical accident prevention at facilities using extremely hazardous substances. The Risk Management Program Rule (RMP Rule) was written to implement Section 112(r) of these amendments. The rule, which built upon existing industry codes and standards, requires companies of all sizes that use certain flammable and toxic substances to develop a Risk Management Program, which includes a(n): Hazard assessment that details the potential effects of an accidental release, an accident history of the last five years, and an evaluation of worst-case and alternative accidental releases; Prevention program that includes safety precautions and maintenance, monitoring, and employee training measures; and Emergency response program that spells out emergency health care, employee training measures and procedures for informing the public and response agencies (e.g the fire department) should an accident occur.

Date of Government Version: 02/01/2017
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 57

Source: Environmental Protection Agency
Telephone: 202-564-8600
Last EDR Contact: 04/21/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RAATS: RCRA Administrative Action Tracking System

RCRA Administration Action Tracking System. RAATS contains records based on enforcement actions issued under RCRA pertaining to major violators and includes administrative and civil actions brought by the EPA. For administration actions after September 30, 1995, data entry in the RAATS database was discontinued. EPA will retain a copy of the database for historical records. It was necessary to terminate RAATS because a decrease in agency resources made it impossible to continue to update the information contained in the database.

Date of Government Version: 04/17/1995
Date Data Arrived at EDR: 07/03/1995
Date Made Active in Reports: 08/07/1995
Number of Days to Update: 35

Source: EPA
Telephone: 202-564-4104
Last EDR Contact: 06/02/2008
Next Scheduled EDR Contact: 09/01/2008
Data Release Frequency: No Update Planned

PRP: Potentially Responsible Parties
A listing of verified Potentially Responsible Parties

Date of Government Version: 10/25/2013
Date Data Arrived at EDR: 10/17/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 3
Source: EPA
Telephone: 202-564-6023
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PADS: PCB Activity Database System
PCB Activity Database. PADS Identifies generators, transporters, commercial storers and/or brokers and disposers of PCB's who are required to notify the EPA of such activities.

Date of Government Version: 01/20/2016
Date Data Arrived at EDR: 04/28/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 127
Source: EPA
Telephone: 202-566-0500
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICIS: Integrated Compliance Information System
The Integrated Compliance Information System (ICIS) supports the information needs of the national enforcement and compliance program as well as the unique needs of the National Pollutant Discharge Elimination System (NPDES) program.

Date of Government Version: 11/18/2016
Date Data Arrived at EDR: 11/23/2016
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 79
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

FTTS: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
FTTS tracks administrative cases and pesticide enforcement actions and compliance activities related to FIFRA, TSCA and EPCRA (Emergency Planning and Community Right-to-Know Act). To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA/Office of Prevention, Pesticides and Toxic Substances
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

FTTS INSP: FIFRA/ TSCA Tracking System - FIFRA (Federal Insecticide, Fungicide, & Rodenticide Act)/TSCA (Toxic Substances Control Act)
A listing of FIFRA/TSCA Tracking System (FTTS) inspections and enforcements.

Date of Government Version: 04/09/2009
Date Data Arrived at EDR: 04/16/2009
Date Made Active in Reports: 05/11/2009
Number of Days to Update: 25
Source: EPA
Telephone: 202-566-1667
Last EDR Contact: 05/19/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

MLTS: Material Licensing Tracking System
MLTS is maintained by the Nuclear Regulatory Commission and contains a list of approximately 8,100 sites which possess or use radioactive materials and which are subject to NRC licensing requirements. To maintain currency, EDR contacts the Agency on a quarterly basis.

Date of Government Version: 08/30/2016
Date Data Arrived at EDR: 09/08/2016
Date Made Active in Reports: 10/21/2016
Number of Days to Update: 43
Source: Nuclear Regulatory Commission
Telephone: 301-415-7169
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

COAL ASH DOE: Steam-Electric Plant Operation Data
A listing of power plants that store ash in surface ponds.

Date of Government Version: 12/31/2005
Date Data Arrived at EDR: 08/07/2009
Date Made Active in Reports: 10/22/2009
Number of Days to Update: 76
Source: Department of Energy
Telephone: 202-586-8719
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

COAL ASH EPA: Coal Combustion Residues Surface Impoundments List
A listing of coal combustion residues surface impoundments with high hazard potential ratings.

Date of Government Version: 07/01/2014
Date Data Arrived at EDR: 09/10/2014
Date Made Active in Reports: 10/20/2014
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: N/A
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

PCB TRANSFORMER: PCB Transformer Registration Database
The database of PCB transformer registrations that includes all PCB registration submittals.

Date of Government Version: 02/01/2011
Date Data Arrived at EDR: 10/19/2011
Date Made Active in Reports: 01/10/2012
Number of Days to Update: 83
Source: Environmental Protection Agency
Telephone: 202-566-0517
Last EDR Contact: 04/28/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RADINFO: Radiation Information Database
The Radiation Information Database (RADINFO) contains information about facilities that are regulated by U.S. Environmental Protection Agency (EPA) regulations for radiation and radioactivity.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 35
Source: Environmental Protection Agency
Telephone: 202-343-9775
Last EDR Contact: 04/06/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

HIST FTTS: FIFRA/TSCA Tracking System Administrative Case Listing
A complete administrative case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40
Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2007
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

HIST FTTS INSP: FIFRA/TSCA Tracking System Inspection & Enforcement Case Listing
A complete inspection and enforcement case listing from the FIFRA/TSCA Tracking System (FTTS) for all ten EPA regions. The information was obtained from the National Compliance Database (NCDB). NCDB supports the implementation of FIFRA (Federal Insecticide, Fungicide, and Rodenticide Act) and TSCA (Toxic Substances Control Act). Some EPA regions are now closing out records. Because of that, and the fact that some EPA regions are not providing EPA Headquarters with updated records, it was decided to create a HIST FTTS database. It included records that may not be included in the newer FTTS database updates. This database is no longer updated.

Date of Government Version: 10/19/2006
Date Data Arrived at EDR: 03/01/2007
Date Made Active in Reports: 04/10/2007
Number of Days to Update: 40

Source: Environmental Protection Agency
Telephone: 202-564-2501
Last EDR Contact: 12/17/2008
Next Scheduled EDR Contact: 03/17/2008
Data Release Frequency: No Update Planned

DOT OPS: Incident and Accident Data

Department of Transporation, Office of Pipeline Safety Incident and Accident data.

Date of Government Version: 07/31/2012
Date Data Arrived at EDR: 08/07/2012
Date Made Active in Reports: 09/18/2012
Number of Days to Update: 42

Source: Department of Transporation, Office of Pipeline Safety
Telephone: 202-366-4595
Last EDR Contact: 05/02/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

CONSENT: Superfund (CERCLA) Consent Decrees

Major legal settlements that establish responsibility and standards for cleanup at NPL (Superfund) sites. Released periodically by United States District Courts after settlement by parties to litigation matters.

Date of Government Version: 09/30/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 77

Source: Department of Justice, Consent Decree Library
Telephone: Varies
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

BRS: Biennial Reporting System

The Biennial Reporting System is a national system administered by the EPA that collects data on the generation and management of hazardous waste. BRS captures detailed data from two groups: Large Quantity Generators (LQG) and Treatment, Storage, and Disposal Facilities.

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 02/24/2015
Date Made Active in Reports: 09/30/2015
Number of Days to Update: 218

Source: EPA/NTIS
Telephone: 800-424-9346
Last EDR Contact: 05/26/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Biennially

INDIAN RESERV: Indian Reservations

This map layer portrays Indian administered lands of the United States that have any area equal to or greater than 640 acres.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 07/14/2015
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 546

Source: USGS
Telephone: 202-208-3710
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

FUSRAP: Formerly Utilized Sites Remedial Action Program

DOE established the Formerly Utilized Sites Remedial Action Program (FUSRAP) in 1974 to remediate sites where radioactive contamination remained from Manhattan Project and early U.S. Atomic Energy Commission (AEC) operations.

Date of Government Version: 12/23/2016
Date Data Arrived at EDR: 12/27/2016
Date Made Active in Reports: 02/17/2017
Number of Days to Update: 52

Source: Department of Energy
Telephone: 202-586-3559
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

UMTRA: Uranium Mill Tailings Sites

Uranium ore was mined by private companies for federal government use in national defense programs. When the mills shut down, large piles of the sand-like material (mill tailings) remain after uranium has been extracted from the ore. Levels of human exposure to radioactive materials from the piles are low; however, in some cases tailings were used as construction materials before the potential health hazards of the tailings were recognized.

Date of Government Version: 09/14/2010
Date Data Arrived at EDR: 10/07/2011
Date Made Active in Reports: 03/01/2012
Number of Days to Update: 146

Source: Department of Energy
Telephone: 505-845-0011
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LEAD SMELTER 1: Lead Smelter Sites

A listing of former lead smelter site locations.

Date of Government Version: 12/05/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 02/10/2017
Number of Days to Update: 36

Source: Environmental Protection Agency
Telephone: 703-603-8787
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Varies

LEAD SMELTER 2: Lead Smelter Sites

A list of several hundred sites in the U.S. where secondary lead smelting was done from 1931and 1964. These sites may pose a threat to public health through ingestion or inhalation of contaminated soil or dust

Date of Government Version: 04/05/2001
Date Data Arrived at EDR: 10/27/2010
Date Made Active in Reports: 12/02/2010
Number of Days to Update: 36

Source: American Journal of Public Health
Telephone: 703-305-6451
Last EDR Contact: 12/02/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

US AIRS (AFS): Aerometric Information Retrieval System Facility Subsystem (AFS)

The database is a sub-system of Aerometric Information Retrieval System (AIRS). AFS contains compliance data on air pollution point sources regulated by the U.S. EPA and/or state and local air regulatory agencies. This information comes from source reports by various stationary sources of air pollution, such as electric power plants, steel mills, factories, and universities, and provides information about the air pollutants they produce. Action, air program, air program pollutant, and general level plant data. It is used to track emissions and compliance data from industrial plants.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Annually

US AIRS MINOR: Air Facility System Data

A listing of minor source facilities.

Date of Government Version: 10/12/2016
Date Data Arrived at EDR: 10/26/2016
Date Made Active in Reports: 02/03/2017
Number of Days to Update: 100

Source: EPA
Telephone: 202-564-2496
Last EDR Contact: 03/07/2017
Next Scheduled EDR Contact: 04/10/2017
Data Release Frequency: Annually

US MINES: Mines Master Index File

Contains all mine identification numbers issued for mines active or opened since 1971. The data also includes violation information.

Date of Government Version: 02/08/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 38

Source: Department of Labor, Mine Safety and Health Administration
Telephone: 303-231-5959
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Semi-Annually

US MINES 2: Ferrous and Nonferrous Metal Mines Database Listing

This map layer includes ferrous (ferrous metal mines are facilities that extract ferrous metals, such as iron ore or molybdenum) and nonferrous (Nonferrous metal mines are facilities that extract nonferrous metals, such as gold, silver, copper, zinc, and lead) metal mines in the United States.

Date of Government Version: 12/05/2005
Date Data Arrived at EDR: 02/29/2008
Date Made Active in Reports: 04/18/2008
Number of Days to Update: 49

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 05/31/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

US MINES 3: Active Mines & Mineral Plants Database Listing

Active Mines and Mineral Processing Plant operations for commodities monitored by the Minerals Information Team of the USGS.

Date of Government Version: 04/14/2011
Date Data Arrived at EDR: 06/08/2011
Date Made Active in Reports: 09/13/2011
Number of Days to Update: 97

Source: USGS
Telephone: 703-648-7709
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

ABANDONED MINES: Abandoned Mines

An inventory of land and water impacted by past mining (primarily coal mining) is maintained by OSMRE to provide information needed to implement the Surface Mining Control and Reclamation Act of 1977 (SMCRA). The inventory contains information on the location, type, and extent of AML impacts, as well as, information on the cost associated with the reclamation of those problems. The inventory is based upon field surveys by State, Tribal, and OSMRE program officials. It is dynamic to the extent that it is modified as new problems are identified and existing problems are reclaimed.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 04/07/2017
Number of Days to Update: 21

Source: Department of Interior
Telephone: 202-208-2609
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

FINDS: Facility Index System/Facility Registry System

Facility Index System. FINDS contains both facility information and 'pointers' to other sources that contain more detail. EDR includes the following FINDS databases in this report: PCS (Permit Compliance System), AIRS (Aerometric Information Retrieval System), DOCKET (Enforcement Docket used to manage and track information on civil judicial enforcement cases for all environmental statutes), FURS (Federal Underground Injection Control), C-DOCKET (Criminal Docket System used to track criminal enforcement actions for all environmental statutes), FFIS (Federal Facilities Information System), STATE (State Environmental Laws and Statutes), and PADS (PCB Activity Data System).

Date of Government Version: 04/04/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 35

Source: EPA
Telephone: (415) 947-8000
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

ECHO: Enforcement & Compliance History Information

ECHO provides integrated compliance and enforcement information for about 800,000 regulated facilities nationwide.

Date of Government Version: 03/19/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 52

Source: Environmental Protection Agency
Telephone: 202-564-2280
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

UXO: Unexploded Ordnance Sites

A listing of unexploded ordnance site locations

Date of Government Version: 10/25/2015
Date Data Arrived at EDR: 01/29/2016
Date Made Active in Reports: 04/05/2016
Number of Days to Update: 67

Source: Department of Defense
Telephone: 571-373-0407
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

DOCKET HWC: Hazardous Waste Compliance Docket Listing
A complete list of the Federal Agency Hazardous Waste Compliance Docket Facilities.

Date of Government Version: 06/02/2016
Date Data Arrived at EDR: 06/03/2016
Date Made Active in Reports: 09/02/2016
Number of Days to Update: 91
Source: Environmental Protection Agency
Telephone: 202-564-0527
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

FUELS PROGRAM: EPA Fuels Program Registered Listing
This listing includes facilities that are registered under the Part 80 (Code of Federal Regulations) EPA Fuels Programs. All companies now are required to submit new and updated registrations.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 79
Source: EPA
Telephone: 800-385-6164
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

CA BOND EXP. PLAN: Bond Expenditure Plan
Department of Health Services developed a site-specific expenditure plan as the basis for an appropriation of Hazardous Substance Cleanup Bond Act funds. It is not updated.

Date of Government Version: 01/01/1989
Date Data Arrived at EDR: 07/27/1994
Date Made Active in Reports: 08/02/1994
Number of Days to Update: 6
Source: Department of Health Services
Telephone: 916-255-2118
Last EDR Contact: 05/31/1994
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

CORTESE: "Cortese" Hazardous Waste & Substances Sites List
The sites for the list are designated by the State Water Resource Control Board (LUST), the Integrated Waste Board (SWF/LS), and the Department of Toxic Substances Control (Cal-Sites).

Date of Government Version: 12/28/2016
Date Data Arrived at EDR: 12/28/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 64
Source: CAL EPA/Office of Emergency Information
Telephone: 916-323-3400
Last EDR Contact: 03/29/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

DRYCLEANERS: Cleaner Facilities
A list of drycleaner related facilities that have EPA ID numbers. These are facilities with certain SIC codes: power laundries, family and commercial; garment pressing and cleaner's agents; linen supply; coin-operated laundries and cleaning; drycleaning plants, except rugs; carpet and upholster cleaning; industrial launderers; laundry and garment services.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 42
Source: Department of Toxic Substance Control
Telephone: 916-327-4498
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Annually

EMI: Emissions Inventory Data
Toxics and criteria pollutant emissions data collected by the ARB and local air pollution agencies.

Date of Government Version: 12/31/2014
Date Data Arrived at EDR: 09/23/2016
Date Made Active in Reports: 10/24/2016
Number of Days to Update: 31
Source: California Air Resources Board
Telephone: 916-322-2990
Last EDR Contact: 03/21/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Varies

ENF: Enforcement Action Listing

A listing of Water Board Enforcement Actions. Formal is everything except Oral/Verbal Communication, Notice of Violation, Expedited Payment Letter, and Staff Enforcement Letter.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 118

Source: State Water Resoruces Control Board
Telephone: 916-445-9379
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 1: Financial Assurance Information Listing

Financial Assurance information

Date of Government Version: 04/25/2016
Date Data Arrived at EDR: 04/29/2016
Date Made Active in Reports: 06/21/2016
Number of Days to Update: 53

Source: Department of Toxic Substances Control
Telephone: 916-255-3628
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Financial Assurance 2: Financial Assurance Information Listing

A listing of financial assurance information for solid waste facilities. Financial assurance is intended to ensure that resources are available to pay for the cost of closure, post-closure care, and corrective measures if the owner or operator of a regulated facility is unable or unwilling to pay.

Date of Government Version: 02/14/2017
Date Data Arrived at EDR: 02/17/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 97

Source: California Integrated Waste Management Board
Telephone: 916-341-6066
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Varies

HAZNET: Facility and Manifest Data

Facility and Manifest Data. The data is extracted from the copies of hazardous waste manifests received each year by the DTSC. The annual volume of manifests is typically 700,000 - 1,000,000 annually, representing approximately 350,000 - 500,000 shipments. Data are from the manifests submitted without correction, and therefore many contain some invalid values for data elements such as generator ID, TSD ID, waste category, and disposal method. This database begins with calendar year 1993.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 10/12/2016
Date Made Active in Reports: 12/15/2016
Number of Days to Update: 64

Source: California Environmental Protection Agency
Telephone: 916-255-1136
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

ICE: ICE

Contains data pertaining to the Permitted Facilities with Inspections / Enforcements sites tracked in Envirostor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62

Source: Department of Toxic Subsances Control
Telephone: 877-786-9427
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HIST CORTESE: Hazardous Waste & Substance Site List

The sites for the list are designated by the State Water Resource Control Board [LUST], the Integrated Waste Board [SWF/LS], and the Department of Toxic Substances Control [CALSITES]. This listing is no longer updated by the state agency.

Date of Government Version: 04/01/2001
Date Data Arrived at EDR: 01/22/2009
Date Made Active in Reports: 04/08/2009
Number of Days to Update: 76

Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 01/22/2009
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

HWP: EnviroStor Permitted Facilities Listing
Detailed information on permitted hazardous waste facilities and corrective action ("cleanups") tracked in EnviroStor.

Date of Government Version: 11/21/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 62
Source: Department of Toxic Substances Control
Telephone: 916-323-3400
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

HWT: Registered Hazardous Waste Transporter Database
A listing of hazardous waste transporters. In California, unless specifically exempted, it is unlawful for any person to transport hazardous wastes unless the person holds a valid registration issued by DTSC. A hazardous waste transporter registration is valid for one year and is assigned a unique registration number.

Date of Government Version: 04/11/2017
Date Data Arrived at EDR: 04/13/2017
Date Made Active in Reports: 04/26/2017
Number of Days to Update: 13
Source: Department of Toxic Substances Control
Telephone: 916-440-7145
Last EDR Contact: 04/13/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Quarterly

MINES: Mines Site Location Listing
A listing of mine site locations from the Office of Mine Reclamation.

Date of Government Version: 09/12/2016
Date Data Arrived at EDR: 09/14/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 30
Source: Department of Conservation
Telephone: 916-322-1080
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

MWMP: Medical Waste Management Program Listing
The Medical Waste Management Program (MWMP) ensures the proper handling and disposal of medical waste by permitting and inspecting medical waste Offsite Treatment Facilities (PDF) and Transfer Stations (PDF) throughout the state. MWMP also oversees all Medical Waste Transporters.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86
Source: Department of Public Health
Telephone: 916-558-1784
Last EDR Contact: 06/06/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

NPDES: NPDES Permits Listing
A listing of NPDES permits, including stormwater.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/15/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 107
Source: State Water Resources Control Board
Telephone: 916-445-9379
Last EDR Contact: 05/17/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

PEST LIC: Pesticide Regulation Licenses Listing
A listing of licenses and certificates issued by the Department of Pesticide Regulation. The DPR issues licenses and/or certificates to: Persons and businesses that apply or sell pesticides; Pest control dealers and brokers; Persons who advise on agricultural pesticide applications.

Date of Government Version: 12/06/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 87
Source: Department of Pesticide Regulation
Telephone: 916-445-4038
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

PROC: Certified Processors Database
A listing of certified processors.

Date of Government Version: 03/13/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Department of Conservation
Telephone: 916-323-3836
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

NOTIFY 65: Proposition 65 Records
Listings of all Proposition 65 incidents reported to counties by the State Water Resources Control Board and the Regional Water Quality Control Board. This database is no longer updated by the reporting agency.

Date of Government Version: 12/16/2016
Date Data Arrived at EDR: 12/22/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 70

Source: State Water Resources Control Board
Telephone: 916-445-3846
Last EDR Contact: 04/03/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

UIC: UIC Listing
A listing of wells identified as underground injection wells, in the California Oil and Gas Wells database.

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 03/14/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 50

Source: Deaprtment of Conservation
Telephone: 916-445-2408
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Varies

WASTEWATER PITS: Oil Wastewater Pits Listing
Water officials discovered that oil producers have been dumping chemical-laden wastewater into hundreds of unlined pits that are operating without proper permits. Inspections completed by the Central Valley Regional Water Quality Control Board revealed the existence of previously unidentified waste sites. The water board?s review found that more than one-third of the region?s active disposal pits are operating without permission.

Date of Government Version: 04/15/2015
Date Data Arrived at EDR: 04/17/2015
Date Made Active in Reports: 06/23/2015
Number of Days to Update: 67

Source: RWQCB, Central Valley Region
Telephone: 559-445-5577
Last EDR Contact: 04/14/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Varies

WDS: Waste Discharge System
Sites which have been issued waste discharge requirements.

Date of Government Version: 06/19/2007
Date Data Arrived at EDR: 06/20/2007
Date Made Active in Reports: 06/29/2007
Number of Days to Update: 9

Source: State Water Resources Control Board
Telephone: 916-341-5227
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Quarterly

WIP: Well Investigation Program Case List
Well Investigation Program case in the San Gabriel and San Fernando Valley area.

Date of Government Version: 07/03/2009
Date Data Arrived at EDR: 07/21/2009
Date Made Active in Reports: 08/03/2009
Number of Days to Update: 13

Source: Los Angeles Water Quality Control Board
Telephone: 213-576-6726
Last EDR Contact: 03/24/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

EDR HIGH RISK HISTORICAL RECORDS

EDR Exclusive Records

EDR MGP: EDR Proprietary Manufactured Gas Plants

The EDR Proprietary Manufactured Gas Plant Database includes records of coal gas plants (manufactured gas plants) compiled by EDR's researchers. Manufactured gas sites were used in the United States from the 1800's to 1950's to produce a gas that could be distributed and used as fuel. These plants used whale oil, rosin, coal, or a mixture of coal, oil, and water that also produced a significant amount of waste. Many of the byproducts of the gas production, such as coal tar (oily waste containing volatile and non-volatile chemicals), sludges, oils and other compounds are potentially hazardous to human health and the environment. The byproduct from this process was frequently disposed of directly at the plant site and can remain or spread slowly, serving as a continuous source of soil and groundwater contamination.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: No Update Planned

EDR Hist Auto: EDR Exclusive Historic Gas Stations

EDR has searched selected national collections of business directories and has collected listings of potential gas station/filling station/service station sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include gas station/filling station/service station establishments. The categories reviewed included, but were not limited to gas, gas station, gasoline station, filling station, auto, automobile repair, auto service station, service station, etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR Hist Cleaner: EDR Exclusive Historic Dry Cleaners

EDR has searched selected national collections of business directories and has collected listings of potential dry cleaner sites that were available to EDR researchers. EDR's review was limited to those categories of sources that might, in EDR's opinion, include dry cleaning establishments. The categories reviewed included, but were not limited to dry cleaners, cleaners, laundry, laundromat, cleaning/laundry, wash & dry etc. This database falls within a category of information EDR classifies as "High Risk Historical Records", or HRHR. EDR's HRHR effort presents unique and sometimes proprietary data about past sites and operations that typically create environmental concerns, but may not show up in current government records searches.

Date of Government Version: N/A
Date Data Arrived at EDR: N/A
Date Made Active in Reports: N/A
Number of Days to Update: N/A

Source: EDR, Inc.
Telephone: N/A
Last EDR Contact: N/A
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

EDR RECOVERED GOVERNMENT ARCHIVES

Exclusive Recovered Govt. Archives

RGA LF: Recovered Government Archive Solid Waste Facilities List

The EDR Recovered Government Archive Landfill database provides a list of landfills derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the Department of Resources Recycling and Recovery in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 01/13/2014
Number of Days to Update: 196

Source: Department of Resources Recycling and Recovery
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

RGA LUST: Recovered Government Archive Leaking Underground Storage Tank

The EDR Recovered Government Archive Leaking Underground Storage Tank database provides a list of LUST incidents derived from historical databases and includes many records that no longer appear in current government lists. Compiled from Records formerly available from the State Water Resources Control Board in California.

Date of Government Version: N/A
Date Data Arrived at EDR: 07/01/2013
Date Made Active in Reports: 12/30/2013
Number of Days to Update: 182

Source: State Water Resources Control Board
Telephone: N/A
Last EDR Contact: 06/01/2012
Next Scheduled EDR Contact: N/A
Data Release Frequency: Varies

COUNTY RECORDS

ALAMEDA COUNTY:

Contaminated Sites

A listing of contaminated sites overseen by the Toxic Release Program (oil and groundwater contamination from chemical releases and spills) and the Leaking Underground Storage Tank Program (soil and ground water contamination from leaking petroleum USTs).

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 31

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

Underground Tanks

Underground storage tank sites located in Alameda county.

Date of Government Version: 04/10/2017
Date Data Arrived at EDR: 04/11/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 21

Source: Alameda County Environmental Health Services
Telephone: 510-567-6700
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 04/24/2047
Data Release Frequency: Semi-Annually

AMADOR COUNTY:

CUPA Facility List

Cupa Facility List

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/08/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 37

Source: Amador County Environmental Health
Telephone: 209-223-6439
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Varies

BUTTE COUNTY:

CUPA Facility Listing

Cupa facility list.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 94

Source: Public Health Department
Telephone: 530-538-7149
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: No Update Planned

CALVERAS COUNTY:

CUPA Facility Listing
Cupa Facility Listing

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Calveras County Environmental Health
Telephone: 209-754-6399
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

COLUSA COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 02/23/2017
Date Data Arrived at EDR: 02/24/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 77

Source: Health & Human Services
Telephone: 530-458-0396
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

CONTRA COSTA COUNTY:

Site List
List includes sites from the underground tank, hazardous waste generator and business plan/2185 programs.

Date of Government Version: 11/17/2016
Date Data Arrived at EDR: 11/22/2016
Date Made Active in Reports: 01/26/2017
Number of Days to Update: 65

Source: Contra Costa Health Services Department
Telephone: 925-646-2286
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Semi-Annually

DEL NORTE COUNTY:

CUPA Facility List
Cupa Facility list

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 04/14/2017
Number of Days to Update: 70

Source: Del Norte County Environmental Health Division
Telephone: 707-465-0426
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

EL DORADO COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/24/2017
Date Data Arrived at EDR: 02/28/2017
Date Made Active in Reports: 05/12/2017
Number of Days to Update: 73

Source: El Dorado County Environmental Management Department
Telephone: 530-621-6623
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

FRESNO COUNTY:

CUPA Resources List

Certified Unified Program Agency. CUPA's are responsible for implementing a unified hazardous materials and hazardous waste management regulatory program. The agency provides oversight of businesses that deal with hazardous materials, operate underground storage tanks or aboveground storage tanks.

Date of Government Version: 04/06/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 40

Source: Dept. of Community Health
Telephone: 559-445-3271
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

GLENN COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Glenn County Air Pollution Control District
Telephone: 830-934-6500
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

HUMBOLDT COUNTY:

CUPA Facility List

CUPA facility list.

Date of Government Version: 03/20/2017
Date Data Arrived at EDR: 03/21/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 57

Source: Humboldt County Environmental Health
Telephone: N/A
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

IMPERIAL COUNTY:

CUPA Facility List

Cupa facility list.

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 36

Source: San Diego Border Field Office
Telephone: 760-339-2777
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

INYO COUNTY:

CUPA Facility List
Cupa facility list.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 77

Source: Inyo County Environmental Health Services
Telephone: 760-878-0238
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

KERN COUNTY:

Underground Storage Tank Sites & Tank Listing
Kern County Sites and Tanks Listing.

Date of Government Version: 02/07/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 81

Source: Kern County Environment Health Services Department
Telephone: 661-862-8700
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

KINGS COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/06/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Kings County Department of Public Health
Telephone: 559-584-1411
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

LAKE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/18/2017
Date Data Arrived at EDR: 01/20/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 41

Source: Lake County Environmental Health
Telephone: 707-263-1164
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

LASSEN COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Lassen County Environmental Health
Telephone: 530-251-8528
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

LOS ANGELES COUNTY:

San Gabriel Valley Areas of Concern
San Gabriel Valley areas where VOC contamination is at or above the MCL as designated by region 9 EPA office.

Date of Government Version: 03/30/2009
Date Data Arrived at EDR: 03/31/2009
Date Made Active in Reports: 10/23/2009
Number of Days to Update: 206
Source: EPA Region 9
Telephone: 415-972-3178
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: No Update Planned

HMS: Street Number List
Industrial Waste and Underground Storage Tank Sites.

Date of Government Version: 11/14/2016
Date Data Arrived at EDR: 11/18/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 66
Source: Department of Public Works
Telephone: 626-458-3517
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

List of Solid Waste Facilities
Solid Waste Facilities in Los Angeles County.

Date of Government Version: 04/17/2017
Date Data Arrived at EDR: 04/18/2017
Date Made Active in Reports: 05/02/2017
Number of Days to Update: 14
Source: La County Department of Public Works
Telephone: 818-458-5185
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

City of Los Angeles Landfills
Landfills owned and maintained by the City of Los Angeles.

Date of Government Version: 01/01/2016
Date Data Arrived at EDR: 01/26/2016
Date Made Active in Reports: 03/22/2016
Number of Days to Update: 56
Source: Engineering & Construction Division
Telephone: 213-473-7869
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

Site Mitigation List
Industrial sites that have had some sort of spill or complaint.

Date of Government Version: 03/29/2016
Date Data Arrived at EDR: 04/06/2016
Date Made Active in Reports: 06/13/2016
Number of Days to Update: 68
Source: Community Health Services
Telephone: 323-890-7806
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

City of El Segundo Underground Storage Tank
Underground storage tank sites located in El Segundo city.

Date of Government Version: 01/17/2017
Date Data Arrived at EDR: 01/18/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 112
Source: City of El Segundo Fire Department
Telephone: 310-524-2236
Last EDR Contact: 04/17/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Semi-Annually

City of Long Beach Underground Storage Tank
Underground storage tank sites located in the city of Long Beach.

Date of Government Version: 03/09/2017
Date Data Arrived at EDR: 03/10/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 54
Source: City of Long Beach Fire Department
Telephone: 562-570-2563
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Annually

City of Torrance Underground Storage Tank
Underground storage tank sites located in the city of Torrance.

Date of Government Version: 01/10/2017
Date Data Arrived at EDR: 01/13/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 110

Source: City of Torrance Fire Department
Telephone: 310-618-2973
Last EDR Contact: 04/10/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Semi-Annually

MADERA COUNTY:

CUPA Facility List
A listing of sites included in the county's Certified Unified Program Agency database. California's Secretary for Environmental Protection established the unified hazardous materials and hazardous waste regulatory program as required by chapter 6.11 of the California Health and Safety Code. The Unified Program consolidates the administration, permits, inspections, and enforcement activities.

Date of Government Version: 03/03/2017
Date Data Arrived at EDR: 03/07/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 71

Source: Madera County Environmental Health
Telephone: 559-675-7823
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MARIN COUNTY:

Underground Storage Tank Sites
Currently permitted USTs in Marin County.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Public Works Department Waste Management
Telephone: 415-473-6647
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Semi-Annually

MERCED COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 83

Source: Merced County Environmental Health
Telephone: 209-381-1094
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

MONO COUNTY:

CUPA Facility List
CUPA Facility List

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 76

Source: Mono County Health Department
Telephone: 760-932-5580
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Varies

MONTEREY COUNTY:

CUPA Facility Listing
CUPA Program listing from the Environmental Health Division.

Date of Government Version: 06/24/2016
Date Data Arrived at EDR: 06/27/2016
Date Made Active in Reports: 08/09/2016
Number of Days to Update: 43

Source: Monterey County Health Department
Telephone: 831-796-1297
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

NAPA COUNTY:

Sites With Reported Contamination
A listing of leaking underground storage tank sites located in Napa county.

Date of Government Version: 01/09/2017
Date Data Arrived at EDR: 01/11/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 50

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

Closed and Operating Underground Storage Tank Sites
Underground storage tank sites located in Napa county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/16/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 54

Source: Napa County Department of Environmental Management
Telephone: 707-253-4269
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: No Update Planned

NEVADA COUNTY:

CUPA Facility List
CUPA facility list.

Date of Government Version: 02/09/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/17/2017
Number of Days to Update: 96

Source: Community Development Agency
Telephone: 530-265-1467
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

ORANGE COUNTY:

List of Industrial Site Cleanups
Petroleum and non-petroleum spills.

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 70

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

List of Underground Storage Tank Cleanups
Orange County Underground Storage Tank Cleanups (LUST).

Date of Government Version: 11/04/2016
Date Data Arrived at EDR: 11/11/2016
Date Made Active in Reports: 01/23/2017
Number of Days to Update: 73

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

List of Underground Storage Tank Facilities
Orange County Underground Storage Tank Facilities (UST).

Date of Government Version: 02/06/2017
Date Data Arrived at EDR: 02/07/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 85

Source: Health Care Agency
Telephone: 714-834-3446
Last EDR Contact: 05/09/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

PLACER COUNTY:

Master List of Facilities
List includes aboveground tanks, underground tanks and cleanup sites.

Date of Government Version: 09/02/2016
Date Data Arrived at EDR: 09/06/2016
Date Made Active in Reports: 10/14/2016
Number of Days to Update: 38

Source: Placer County Health and Human Services
Telephone: 530-745-2363
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

PLUMAS COUNTY:

CUPA Facility List
Plumas County CUPA Program facilities.

Date of Government Version: 01/31/2017
Date Data Arrived at EDR: 02/03/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 111

Source: Plumas County Environmental Health
Telephone: 530-283-6355
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

RIVERSIDE COUNTY:

Listing of Underground Tank Cleanup Sites
Riverside County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 04/18/2017
Date Data Arrived at EDR: 04/20/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 1

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

Underground Storage Tank Tank List
Underground storage tank sites located in Riverside county.

Date of Government Version: 01/19/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 98

Source: Department of Environmental Health
Telephone: 951-358-5055
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Quarterly

SACRAMENTO COUNTY:

Toxic Site Clean-Up List
List of sites where unauthorized releases of potentially hazardous materials have occurred.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

Master Hazardous Materials Facility List

Any business that has hazardous materials on site - hazardous material storage sites, underground storage tanks, waste generators.

Date of Government Version: 11/08/2016
Date Data Arrived at EDR: 01/05/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 56

Source: Sacramento County Environmental Management
Telephone: 916-875-8406
Last EDR Contact: 04/04/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Quarterly

SAN BENITO COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 11/30/2016
Date Data Arrived at EDR: 02/09/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 105

Source: San Benito County Environmental Health
Telephone: N/A
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

SAN BERNARDINO COUNTY:

Hazardous Material Permits

This listing includes underground storage tanks, medical waste handlers/generators, hazardous materials handlers, hazardous waste generators, and waste oil generators/handlers.

Date of Government Version: 12/09/2016
Date Data Arrived at EDR: 12/13/2016
Date Made Active in Reports: 03/03/2017
Number of Days to Update: 80

Source: San Bernardino County Fire Department Hazardous Materials Division
Telephone: 909-387-3041
Last EDR Contact: 05/08/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN DIEGO COUNTY:

Hazardous Materials Management Division Database

The database includes: HE58 - This report contains the business name, site address, business phone number, establishment 'H' permit number, type of permit, and the business status. HE17 - In addition to providing the same information provided in the HE58 listing, HE17 provides inspection dates, violations received by the establishment, hazardous waste generated, the quantity, method of storage, treatment/disposal of waste and the hauler, and information on underground storage tanks. Unauthorized Release List - Includes a summary of environmental contamination cases in San Diego County (underground tank cases, non-tank cases, groundwater contamination, and soil contamination are included.)

Date of Government Version: 10/05/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 86

Source: Hazardous Materials Management Division
Telephone: 619-338-2268
Last EDR Contact: 06/07/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Quarterly

Solid Waste Facilities
San Diego County Solid Waste Facilities.

Date of Government Version: 10/31/2015
Date Data Arrived at EDR: 11/07/2015
Date Made Active in Reports: 01/04/2016
Number of Days to Update: 58
Source: Department of Health Services
Telephone: 619-338-2209
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

Environmental Case Listing
The listing contains all underground tank release cases and projects pertaining to properties contaminated with hazardous substances that are actively under review by the Site Assessment and Mitigation Program.

Date of Government Version: 03/23/2010
Date Data Arrived at EDR: 06/15/2010
Date Made Active in Reports: 07/09/2010
Number of Days to Update: 24
Source: San Diego County Department of Environmental Health
Telephone: 619-338-2371
Last EDR Contact: 06/05/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: No Update Planned

SAN FRANCISCO COUNTY:

Local Oversite Facilities
A listing of leaking underground storage tank sites located in San Francisco county.

Date of Government Version: 09/19/2008
Date Data Arrived at EDR: 09/19/2008
Date Made Active in Reports: 09/29/2008
Number of Days to Update: 10
Source: Department Of Public Health San Francisco County
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

Underground Storage Tank Information
Underground storage tank sites located in San Francisco county.

Date of Government Version: 02/28/2017
Date Data Arrived at EDR: 03/02/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 62
Source: Department of Public Health
Telephone: 415-252-3920
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Quarterly

SAN JOAQUIN COUNTY:

San Joaquin Co. UST
A listing of underground storage tank locations in San Joaquin county.

Date of Government Version: 03/21/2017
Date Data Arrived at EDR: 03/23/2017
Date Made Active in Reports: 05/09/2017
Number of Days to Update: 47
Source: Environmental Health Department
Telephone: N/A
Last EDR Contact: 03/20/2017
Next Scheduled EDR Contact: 07/03/2017
Data Release Frequency: Semi-Annually

SAN LUIS OBISPO COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 02/21/2017
Date Data Arrived at EDR: 02/21/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 91
Source: San Luis Obispo County Public Health Department
Telephone: 805-781-5596
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SAN MATEO COUNTY:

Business Inventory
List includes Hazardous Materials Business Plan, hazardous waste generators, and underground storage tanks.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 33
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Fuel Leak List
A listing of leaking underground storage tank sites located in San Mateo county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 04/07/2017
Date Made Active in Reports: 04/21/2017
Number of Days to Update: 14
Source: San Mateo County Environmental Health Services Division
Telephone: 650-363-1921
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Semi-Annually

SANTA BARBARA COUNTY:

CUPA Facility Listing
CUPA Program Listing from the Environmental Health Services division.

Date of Government Version: 09/08/2011
Date Data Arrived at EDR: 09/09/2011
Date Made Active in Reports: 10/07/2011
Number of Days to Update: 28
Source: Santa Barbara County Public Health Department
Telephone: 805-686-8167
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SANTA CLARA COUNTY:

Cupa Facility List
Cupa facility list

Date of Government Version: 02/22/2017
Date Data Arrived at EDR: 02/23/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 89
Source: Department of Environmental Health
Telephone: 408-918-1973
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

HIST LUST - Fuel Leak Site Activity Report
A listing of open and closed leaking underground storage tanks. This listing is no longer updated by the county. Leaking underground storage tanks are now handled by the Department of Environmental Health.

Date of Government Version: 03/29/2005
Date Data Arrived at EDR: 03/30/2005
Date Made Active in Reports: 04/21/2005
Number of Days to Update: 22
Source: Santa Clara Valley Water District
Telephone: 408-265-2600
Last EDR Contact: 03/23/2009
Next Scheduled EDR Contact: 06/22/2009
Data Release Frequency: No Update Planned

LOP Listing
A listing of leaking underground storage tanks located in Santa Clara county.

Date of Government Version: 03/03/2014
Date Data Arrived at EDR: 03/05/2014
Date Made Active in Reports: 03/18/2014
Number of Days to Update: 13
Source: Department of Environmental Health
Telephone: 408-918-3417
Last EDR Contact: 05/24/2017
Next Scheduled EDR Contact: 09/11/2017
Data Release Frequency: Annually

Hazardous Material Facilities
Hazardous material facilities, including underground storage tank sites.

Date of Government Version: 11/07/2016
Date Data Arrived at EDR: 11/10/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 75

Source: City of San Jose Fire Department
Telephone: 408-535-7694
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Annually

SANTA CRUZ COUNTY:

CUPA Facility List
CUPA facility listing.

Date of Government Version: 01/21/2017
Date Data Arrived at EDR: 02/22/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 90

Source: Santa Cruz County Environmental Health
Telephone: 831-464-2761
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SHASTA COUNTY:

CUPA Facility List
Cupa Facility List.

Date of Government Version: 03/14/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 67

Source: Shasta County Department of Resource Management
Telephone: 530-225-5789
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Varies

SOLANO COUNTY:

Leaking Underground Storage Tanks
A listing of leaking underground storage tank sites located in Solano county.

Date of Government Version: 11/29/2016
Date Data Arrived at EDR: 12/21/2016
Date Made Active in Reports: 12/22/2016
Number of Days to Update: 1

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

Underground Storage Tanks
Underground storage tank sites located in Solano county.

Date of Government Version: 03/15/2017
Date Data Arrived at EDR: 03/17/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 47

Source: Solano County Department of Environmental Management
Telephone: 707-784-6770
Last EDR Contact: 06/09/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

SONOMA COUNTY:

Cupa Facility List
Cupa Facility list

Date of Government Version: 03/01/2017
Date Data Arrived at EDR: 03/30/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 54

Source: County of Sonoma Fire & Emergency Services Department
Telephone: 707-565-1174
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Varies

Leaking Underground Storage Tank Sites

A listing of leaking underground storage tank sites located in Sonoma county.

Date of Government Version: 01/04/2017
Date Data Arrived at EDR: 01/06/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 55

Source: Department of Health Services
Telephone: 707-565-6565
Last EDR Contact: 03/27/2017
Next Scheduled EDR Contact: 07/10/2017
Data Release Frequency: Quarterly

STANISLAUS COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/20/2017
Date Data Arrived at EDR: 01/24/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 114

Source: Stanislaus County Department of Ennvironmental Protection
Telephone: 209-525-6751
Last EDR Contact: 11/30/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Varies

SUTTER COUNTY:

Underground Storage Tanks

Underground storage tank sites located in Sutter county.

Date of Government Version: 12/02/2016
Date Data Arrived at EDR: 12/06/2016
Date Made Active in Reports: 01/10/2017
Number of Days to Update: 35

Source: Sutter County Department of Agriculture
Telephone: 530-822-7500
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 09/18/2017
Data Release Frequency: Semi-Annually

TEHAMA COUNTY:

CUPA Facility List

Cupa facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tehama County Department of Environmental Health
Telephone: 530-527-8020
Last EDR Contact: 05/05/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TRINITY COUNTY:

CUPA Facility List

Cupa facility list

Date of Government Version: 01/23/2017
Date Data Arrived at EDR: 01/25/2017
Date Made Active in Reports: 05/18/2017
Number of Days to Update: 113

Source: Department of Toxic Substances Control
Telephone: 760-352-0381
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

TULARE COUNTY:

CUPA Facility List
Cupa program facilities

Date of Government Version: 01/05/2017
Date Data Arrived at EDR: 02/10/2017
Date Made Active in Reports: 05/25/2017
Number of Days to Update: 104

Source: Tulare County Environmental Health Services Division
Telephone: 559-624-7400
Last EDR Contact: 06/02/2017
Next Scheduled EDR Contact: 08/21/2017
Data Release Frequency: Varies

TUOLUMNE COUNTY:

CUPA Facility List
Cupa facility list

Date of Government Version: 01/25/2017
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 03/02/2017
Number of Days to Update: 34

Source: Divison of Environmental Health
Telephone: 209-533-5633
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Varies

VENTURA COUNTY:

Business Plan, Hazardous Waste Producers, and Operating Underground Tanks
The BWT list indicates by site address whether the Environmental Health Division has Business Plan (B), Waste Producer (W), and/or Underground Tank (T) information.

Date of Government Version: 12/27/2016
Date Data Arrived at EDR: 01/27/2017
Date Made Active in Reports: 05/10/2017
Number of Days to Update: 103

Source: Ventura County Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Inventory of Illegal Abandoned and Inactive Sites
Ventura County Inventory of Closed, Illegal Abandoned, and Inactive Sites.

Date of Government Version: 12/01/2011
Date Data Arrived at EDR: 12/01/2011
Date Made Active in Reports: 01/19/2012
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

Listing of Underground Tank Cleanup Sites
Ventura County Underground Storage Tank Cleanup Sites (LUST).

Date of Government Version: 05/29/2008
Date Data Arrived at EDR: 06/24/2008
Date Made Active in Reports: 07/31/2008
Number of Days to Update: 37

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: Quarterly

Medical Waste Program List
To protect public health and safety and the environment from potential exposure to disease causing agents, the Environmental Health Division Medical Waste Program regulates the generation, handling, storage, treatment and disposal of medical waste throughout the County.

Date of Government Version: 09/26/2016
Date Data Arrived at EDR: 10/27/2016
Date Made Active in Reports: 01/24/2017
Number of Days to Update: 89

Source: Ventura County Resource Management Agency
Telephone: 805-654-2813
Last EDR Contact: 04/24/2017
Next Scheduled EDR Contact: 08/07/2017
Data Release Frequency: Quarterly

Underground Tank Closed Sites List
Ventura County Operating Underground Storage Tank Sites (UST)/Underground Tank Closed Sites List.

Date of Government Version: 02/27/2017
Date Data Arrived at EDR: 03/15/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 49

Source: Environmental Health Division
Telephone: 805-654-2813
Last EDR Contact: 06/14/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Quarterly

YOLO COUNTY:

Underground Storage Tank Comprehensive Facility Report
Underground storage tank sites located in Yolo county.

Date of Government Version: 03/31/2017
Date Data Arrived at EDR: 04/06/2017
Date Made Active in Reports: 05/03/2017
Number of Days to Update: 27

Source: Yolo County Department of Health
Telephone: 530-666-8646
Last EDR Contact: 03/31/2017
Next Scheduled EDR Contact: 07/17/2017
Data Release Frequency: Annually

YUBA COUNTY:

CUPA Facility List
CUPA facility listing for Yuba County.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 01/31/2017
Date Made Active in Reports: 05/23/2017
Number of Days to Update: 112

Source: Yuba County Environmental Health Department
Telephone: 530-749-7523
Last EDR Contact: 05/01/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Varies

OTHER DATABASE(S)

Depending on the geographic area covered by this report, the data provided in these specialty databases may or may not be complete. For example, the existence of wetlands information data in a specific report does not mean that all wetlands in the area covered by the report are included. Moreover, the absence of any reported wetlands information does not necessarily mean that wetlands do not exist in the area covered by the report.

CT MANIFEST: Hazardous Waste Manifest Data
Facility and manifest data. Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a tsd facility.

Date of Government Version: 07/30/2013
Date Data Arrived at EDR: 08/19/2013
Date Made Active in Reports: 10/03/2013
Number of Days to Update: 45

Source: Department of Energy & Environmental Protection
Telephone: 860-424-3375
Last EDR Contact: 05/15/2017
Next Scheduled EDR Contact: 08/28/2017
Data Release Frequency: No Update Planned

NJ MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 09/29/2016
Date Made Active in Reports: 01/03/2017
Number of Days to Update: 96

Source: Department of Environmental Protection
Telephone: N/A
Last EDR Contact: 04/11/2017
Next Scheduled EDR Contact: 07/24/2017
Data Release Frequency: Annually

NY MANIFEST: Facility and Manifest Data
Manifest is a document that lists and tracks hazardous waste from the generator through transporters to a TSD facility.

Date of Government Version: 01/30/2017
Date Data Arrived at EDR: 02/01/2017
Date Made Active in Reports: 02/13/2017
Number of Days to Update: 12

Source: Department of Environmental Conservation
Telephone: 518-402-8651
Last EDR Contact: 05/03/2017
Next Scheduled EDR Contact: 08/14/2017
Data Release Frequency: Annually

PA MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 07/22/2016
Date Made Active in Reports: 11/22/2016
Number of Days to Update: 123

Source: Department of Environmental Protection
Telephone: 717-783-8990
Last EDR Contact: 04/18/2017
Next Scheduled EDR Contact: 07/31/2017
Data Release Frequency: Annually

RI MANIFEST: Manifest information
Hazardous waste manifest information

Date of Government Version: 12/31/2013
Date Data Arrived at EDR: 06/19/2015
Date Made Active in Reports: 07/15/2015
Number of Days to Update: 26

Source: Department of Environmental Management
Telephone: 401-222-2797
Last EDR Contact: 05/22/2017
Next Scheduled EDR Contact: 09/04/2017
Data Release Frequency: Annually

WI MANIFEST: Manifest Information
Hazardous waste manifest information.

Date of Government Version: 12/31/2015
Date Data Arrived at EDR: 04/14/2016
Date Made Active in Reports: 06/03/2016
Number of Days to Update: 50

Source: Department of Natural Resources
Telephone: N/A
Last EDR Contact: 06/12/2017
Next Scheduled EDR Contact: 09/25/2017
Data Release Frequency: Annually

Oil/Gas Pipelines
Source: PennWell Corporation
Petroleum Bundle (Crude Oil, Refined Products, Petrochemicals, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)) N = Natural Gas Bundle (Natural Gas, Gas Liquids (LPG/NGL), and Specialty Gases (Miscellaneous)). This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Electric Power Transmission Line Data
Source: PennWell Corporation
This map includes information copyrighted by PennWell Corporation. This information is provided on a best effort basis and PennWell Corporation does not guarantee its accuracy nor warrant its fitness for any particular purpose. Such information has been reprinted with the permission of PennWell.

Sensitive Receptors: There are individuals deemed sensitive receptors due to their fragile immune systems and special sensitivity to environmental discharges. These sensitive receptors typically include the elderly, the sick, and children. While the location of all sensitive receptors cannot be determined, EDR indicates those buildings and facilities - schools, daycares, hospitals, medical centers, and nursing homes - where individuals who are sensitive receptors are likely to be located.

AHA Hospitals:
Source: American Hospital Association, Inc.
Telephone: 312-280-5991
The database includes a listing of hospitals based on the American Hospital Association's annual survey of hospitals.

Medical Centers: Provider of Services Listing
Source: Centers for Medicare & Medicaid Services
Telephone: 410-786-3000
A listing of hospitals with Medicare provider number, produced by Centers of Medicare & Medicaid Services, a federal agency within the U.S. Department of Health and Human Services.

GOVERNMENT RECORDS SEARCHED / DATA CURRENCY TRACKING

Nursing Homes
Source: National Institutes of Health
Telephone: 301-594-6248
Information on Medicare and Medicaid certified nursing homes in the United States.
Public Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on elementary and secondary public education in the United States. It is a comprehensive, annual, national statistical database of all public elementary and secondary schools and school districts, which contains data that are comparable across all states.
Private Schools
Source: National Center for Education Statistics
Telephone: 202-502-7300
The National Center for Education Statistics' primary database on private school locations in the United States.
Daycare Centers: Licensed Facilities
Source: Department of Social Services
Telephone: 916-657-4041

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

GEOCHECK ®- PHYSICAL SETTING SOURCE ADDENDUM

TARGET PROPERTY ADDRESS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CA 91335

TARGET PROPERTY COORDINATES

Latitude (North):	34.188711 - 34° 11' 19.36''
Longitude (West):	118.529365 - 118° 31' 45.71''
Universal Tranverse Mercator:	Zone 11
UTM X (Meters):	359070.1
UTM Y (Meters):	3783942.2
Elevation:	729 ft. above sea level

USGS TOPOGRAPHIC MAP

Target Property Map:	5630737 CANOGA PARK, CA
Version Date:	2012

EDR's GeoCheck Physical Setting Source Addendum is provided to assist the environmental professional in forming an opinion about the impact of potential contaminant migration.

Assessment of the impact of contaminant migration generally has two principal investigative components:

1. Groundwater flow direction, and
2. Groundwater flow velocity.

Groundwater flow direction may be impacted by surface topography, hydrology, hydrogeology, characteristics of the soil, and nearby wells. Groundwater flow velocity is generally impacted by the nature of the geologic strata.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW DIRECTION INFORMATION

Groundwater flow direction for a particular site is best determined by a qualified environmental professional using site-specific well data. If such data is not reasonably ascertainable, it may be necessary to rely on other sources of information, such as surface topographic information, hydrologic information, hydrogeologic data collected on nearby properties, and regional groundwater flow information (from deep aquifers).

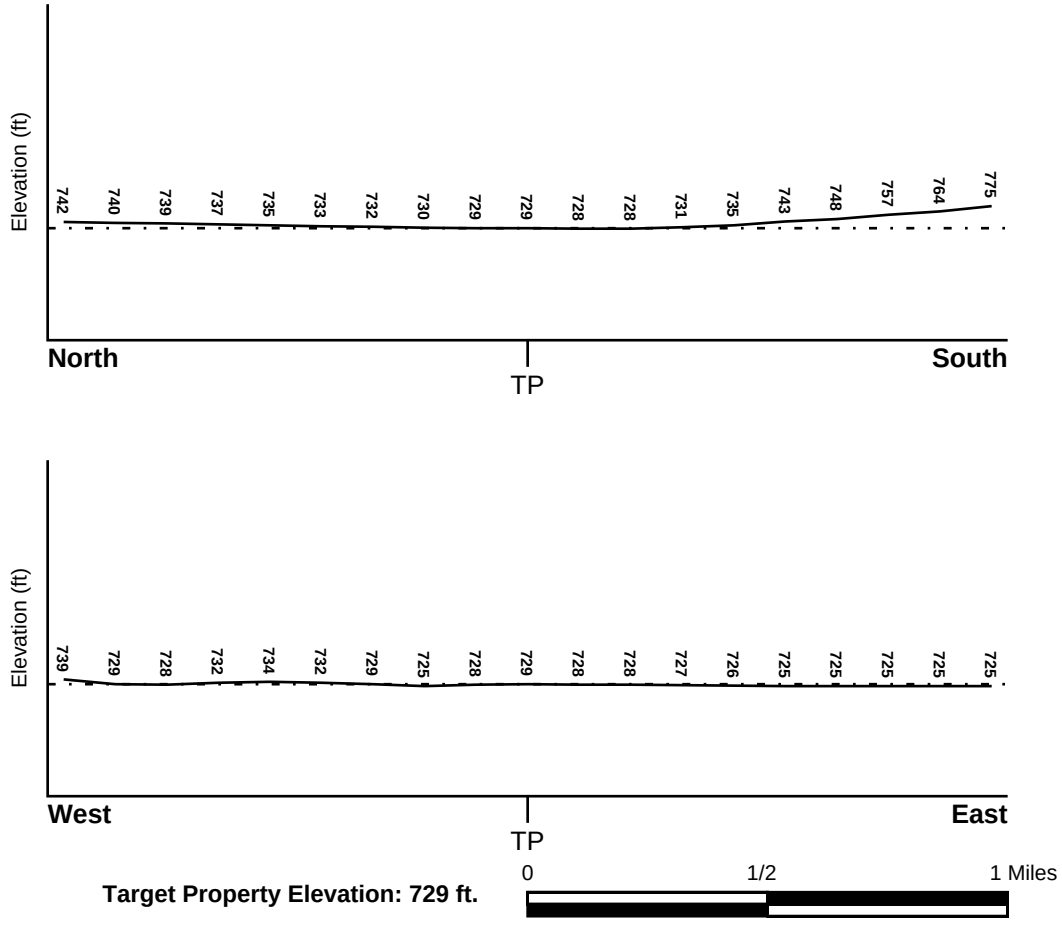
TOPOGRAPHIC INFORMATION

Surface topography may be indicative of the direction of surficial groundwater flow. This information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

TARGET PROPERTY TOPOGRAPHY

General Topographic Gradient: General SSW

SURROUNDING TOPOGRAPHY: ELEVATION PROFILES



Source: Topography has been determined from the USGS 7.5' Digital Elevation Model and should be evaluated on a relative (not an absolute) basis. Relative elevation information between sites of close proximity should be field verified.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

HYDROLOGIC INFORMATION

Surface water can act as a hydrologic barrier to groundwater flow. Such hydrologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Refer to the Physical Setting Source Map following this summary for hydrologic information (major waterways and bodies of water).

FEMA FLOOD ZONE

Flood Plain Panel at Target Property	FEMA Source Type
06037C1285F	FEMA FIRM Flood data

Additional Panels in search area:	FEMA Source Type
06037C1295F	FEMA FIRM Flood data

NATIONAL WETLAND INVENTORY

NWI Quad at Target Property	NWI Electronic Data Coverage
CANOGA PARK	YES - refer to the Overview Map and Detail Map

HYDROGEOLOGIC INFORMATION

Hydrogeologic information obtained by installation of wells on a specific site can often be an indicator of groundwater flow direction in the immediate area. Such hydrogeologic information can be used to assist the environmental professional in forming an opinion about the impact of nearby contaminated properties or, should contamination exist on the target property, what downgradient sites might be impacted.

Site-Specific Hydrogeological Data*:

Search Radius:	1.25 miles
Status:	Not found

AQUIFLOW®

Search Radius: 1.000 Mile.

EDR has developed the AQUIFLOW Information System to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted by environmental professionals to regulatory authorities at select sites and has extracted the date of the report, groundwater flow direction as determined hydrogeologically, and the depth to water table.

MAP ID	LOCATION FROM TP	GENERAL DIRECTION GROUNDWATER FLOW
Not Reported		

* ©1996 Site−specific hydrogeological data gathered by CERCLIS Alerts, Inc., Bainbridge Island, WA. All rights reserved. All of the information and opinions presented are those of the cited EPA report(s), which were completed under a Comprehensive Environmental Response Compensation and Liability Information System (CERCLIS) investigation.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

GROUNDWATER FLOW VELOCITY INFORMATION

Groundwater flow velocity information for a particular site is best determined by a qualified environmental professional using site specific geologic and soil strata data. If such data are not reasonably ascertainable, it may be necessary to rely on other sources of information, including geologic age identification, rock stratigraphic unit and soil characteristics data collected on nearby properties and regional soil information. In general, contaminant plumes move more quickly through sandy-gravelly types of soils than silty-clayey types of soils.

GEOLOGIC INFORMATION IN GENERAL AREA OF TARGET PROPERTY

Geologic information can be used by the environmental professional in forming an opinion about the relative speed at which contaminant migration may be occurring.

ROCK STRATIGRAPHIC UNIT

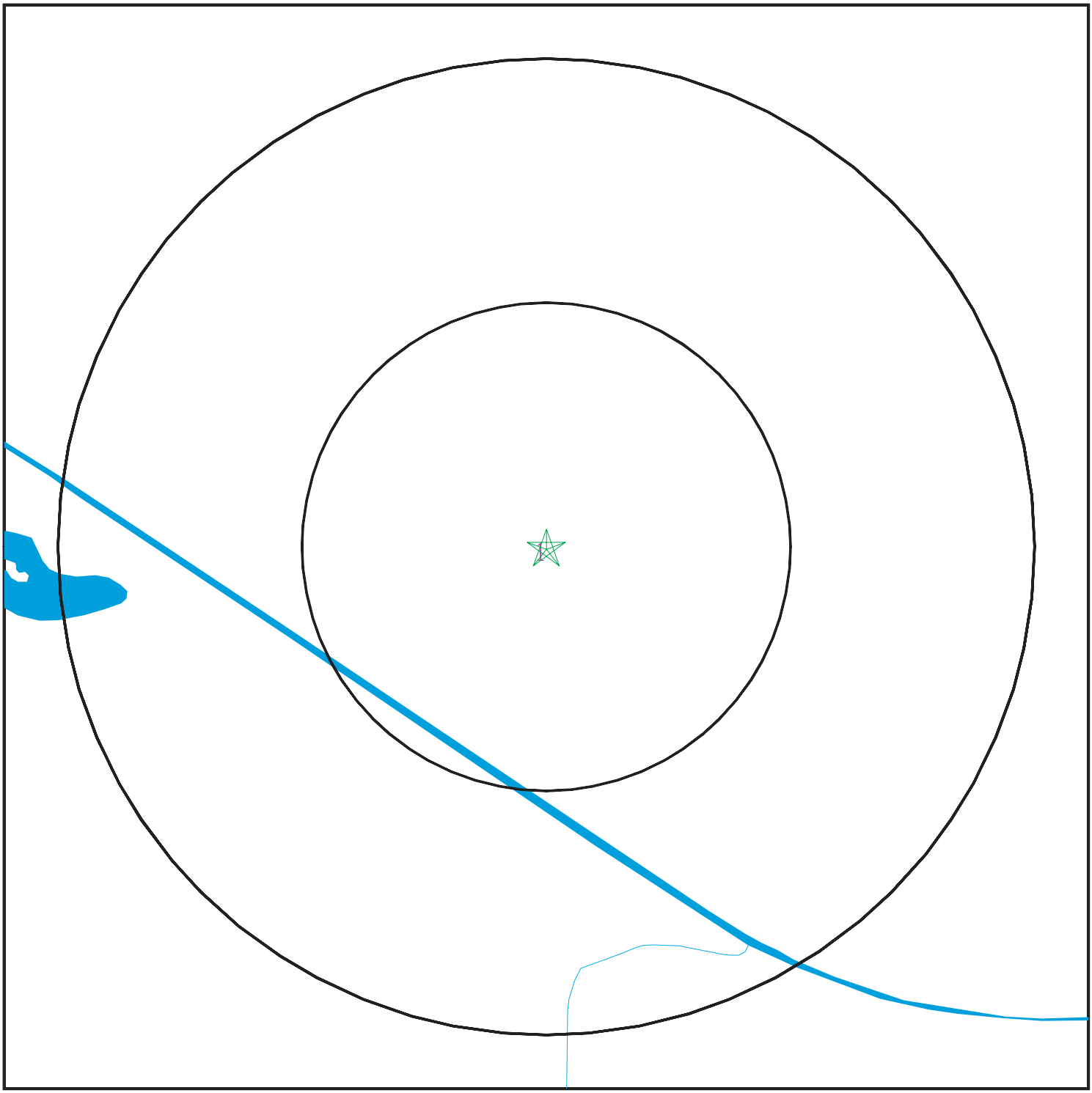
Era:	Cenozoic
System:	Quaternary
Series:	Quaternary
Code:	Q *(decoded above as Era, System & Series)*

GEOLOGIC AGE IDENTIFICATION

Category: Stratifed Sequence

Geologic Age and Rock Stratigraphic Unit Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - a digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

SSURGO SOIL MAP - 4971046.2s



SITE NAME:	Reseda High School	CLIENT:	Ninyo & Moore
ADDRESS:	18230 Kittridge Street Reseda CA 91335	CONTACT:	Manasi Chavan
LAT/LONG:	34.188711 / 118.529365	INQUIRY #:	4971046.2s
		DATE:	June 20, 2017 3:35 pm

Copyright © 2017 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

DOMINANT SOIL COMPOSITION IN GENERAL AREA OF TARGET PROPERTY

The U.S. Department of Agriculture's (USDA) Soil Conservation Service (SCS) leads the National Cooperative Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. The following information is based on Soil Conservation Service SSURGO data.

Soil Map ID: 1

Soil Component Name: Mocho

Soil Surface Texture: loam

Hydrologic Group: Not reported

Soil Drainage Class:
Hydric Status: Partially hydric

Corrosion Potential - Uncoated Steel: High

Depth to Bedrock Min: > 0 inches

Depth to Watertable Min: > 0 inches

Soil Layer Information							
	Boundary			Classification		Saturated hydraulic conductivity micro m/sec	Soil Reaction (pH)
Layer	Upper	Lower	Soil Texture Class	AASHTO Group	Unified Soil		
1	0 inches	16 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9
2	16 inches	75 inches	loam	Silt-Clay Materials (more than 35 pct. passing No. 200), Silty Soils.	FINE-GRAINED SOILS, Silts and Clays (liquid limit less than 50%), Lean Clay	Max: 14 Min: 4	Max: 8.4 Min: 7.9

LOCAL / REGIONAL WATER AGENCY RECORDS

EDR Local/Regional Water Agency records provide water well information to assist the environmental professional in assessing sources that may impact ground water flow direction, and in forming an opinion about the impact of contaminant migration on nearby drinking water wells.

GEOCHECK® - PHYSICAL SETTING SOURCE SUMMARY

WELL SEARCH DISTANCE INFORMATION

DATABASE	SEARCH DISTANCE (miles)
Federal USGS	1.000
Federal FRDS PWS	Nearest PWS within 1 mile
State Database	1.000

FEDERAL USGS WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No Wells Found		

FEDERAL FRDS PUBLIC WATER SUPPLY SYSTEM INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
No PWS System Found		

Note: PWS System location is not always the same as well location.

STATE DATABASE WELL INFORMATION

MAP ID	WELL ID	LOCATION FROM TP
1	650	1/2 - 1 Mile NNW

PHYSICAL SETTING SOURCE MAP - 4971046.2s

- County Boundary
- Major Roads
- Contour Lines
- Earthquake Fault Lines
- Earthquake epicenter, Richter 5 or greater
- Water Wells
- Public Water Supply Wells
- Cluster of Multiple Icons

- Groundwater Flow Direction
- GI Indeterminate Groundwater Flow at Location
- GV Groundwater Flow Varies at Location
- HD Closest Hydrogeological Data
- Oil, gas or related wells

SITE NAME:	Reseda High School	CLIENT:	Ninyo & Moore
ADDRESS:	18230 Kittridge Street Reseda CA 91335	CONTACT:	Manasi Chavan
LAT/LONG:	34.188711 / 118.529365	INQUIRY #:	4971046.2s
		DATE:	June 20, 2017 3:35 pm

Copyright © 2017 EDR, Inc. © 2015 TomTom Rel. 2015.

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS

Map ID
Direction
Distance
Elevation

	Database	EDR ID Number
1 **NNW** **1/2 - 1 Mile** **Higher**	**CA WELLS**	**650**

Water System Information:

Prime Station Code:	01N/16W-03G04 S	User ID:	MET
FRDS Number:	1910067117	County:	Los Angeles
District Number:	15	Station Type:	WELL/AMBNT/MUN/INTAKE/SUPPLY
Water Type:	Well/Groundwater	Well Status:	Inactive Raw
Source Lat/Long:	341200.0 1183200.0	Precision:	Undefined
Source Name:	RESEDA WELL 10 - INACTIVE		
System Number:	1910067		
System Name:	LOS ANGELES-CITY, DEPT. OF WATER & POWER		
Organization That Operates System:			
	P.O. BOX 51111, ROOM 1420 LOS ANGELES, CA 90051		
Pop Served:	3700000	Connections:	657422
Area Served:	LOS ANGELES		

GEOCHECK® - PHYSICAL SETTING SOURCE MAP FINDINGS
RADON

AREA RADON INFORMATION

State Database: CA Radon

Radon Test Results

Zipcode	Num Tests	> 4 pCi/L
91335	138	24

Federal EPA Radon Zone for LOS ANGELES County: 2

Note: Zone 1 indoor average level > 4 pCi/L.
: Zone 2 indoor average level >= 2 pCi/L and <= 4 pCi/L.
: Zone 3 indoor average level < 2 pCi/L.

Federal Area Radon Information for LOS ANGELES COUNTY, CA

Number of sites tested: 63

Area	Average Activity	% <4 pCi/L	% 4-20 pCi/L	% >20 pCi/L
Living Area - 1st Floor	0.711 pCi/L	98%	2%	0%
Living Area - 2nd Floor	Not Reported	Not Reported	Not Reported	Not Reported
Basement	0.933 pCi/L	100%	0%	0%

PHYSICAL SETTING SOURCE RECORDS SEARCHED

TOPOGRAPHIC INFORMATION

USGS 7.5' Digital Elevation Model (DEM)
Source: United States Geologic Survey
EDR acquired the USGS 7.5' Digital Elevation Model in 2002 and updated it in 2006. The 7.5 minute DEM corresponds to the USGS 1:24,000- and 1:25,000-scale topographic quadrangle maps. The DEM provides elevation data with consistent elevation units and projection.

Current USGS 7.5 Minute Topographic Map
Source: U.S. Geological Survey

HYDROLOGIC INFORMATION

Flood Zone Data: This data was obtained from the Federal Emergency Management Agency (FEMA). It depicts 100-year and 500-year flood zones as defined by FEMA. It includes the National Flood Hazard Layer (NFHL) which incorporates Flood Insurance Rate Map (FIRM) data and Q3 data from FEMA in areas not covered by NFHL.
Source: FEMA
Telephone: 877-336-2627
Date of Government Version: 2003, 2015

NWI: National Wetlands Inventory. This data, available in select counties across the country, was obtained by EDR in 2002, 2005 and 2010 from the U.S. Fish and Wildlife Service.

State Wetlands Data: Wetland Inventory
Source: Department of Fish & Game
Telephone: 916-445-0411

HYDROGEOLOGIC INFORMATION

AQUIFLOW^{R} Information System
Source: EDR proprietary database of groundwater flow information
EDR has developed the AQUIFLOW Information System (AIS) to provide data on the general direction of groundwater flow at specific points. EDR has reviewed reports submitted to regulatory authorities at select sites and has extracted the date of the report, hydrogeologically determined groundwater flow direction and depth to water table information.

GEOLOGIC INFORMATION

Geologic Age and Rock Stratigraphic Unit
Source: P.G. Schruben, R.E. Arndt and W.J. Bawiec, Geology of the Conterminous U.S. at 1:2,500,000 Scale - A digital representation of the 1974 P.B. King and H.M. Beikman Map, USGS Digital Data Series DDS - 11 (1994).

STATSGO: State Soil Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
The U.S. Department of Agriculture's (USDA) Natural Resources Conservation Service (NRCS) leads the national Conservation Soil Survey (NCSS) and is responsible for collecting, storing, maintaining and distributing soil survey information for privately owned lands in the United States. A soil map in a soil survey is a representation of soil patterns in a landscape. Soil maps for STATSGO are compiled by generalizing more detailed (SSURGO) soil survey maps.

SSURGO: Soil Survey Geographic Database
Source: Department of Agriculture, Natural Resources Conservation Service (NRCS)
Telephone: 800-672-5559
SSURGO is the most detailed level of mapping done by the Natural Resources Conservation Service, mapping scales generally range from 1:12,000 to 1:63,360. Field mapping methods using national standards are used to construct the soil maps in the Soil Survey Geographic (SSURGO) database. SSURGO digitizing duplicates the original soil survey maps. This level of mapping is designed for use by landowners, townships and county natural resource planning and management.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

LOCAL / REGIONAL WATER AGENCY RECORDS

FEDERAL WATER WELLS

PWS: Public Water Systems
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Public Water System data from the Federal Reporting Data System. A PWS is any water system which provides water to at least 25 people for at least 60 days annually. PWSs provide water from wells, rivers and other sources.

PWS ENF: Public Water Systems Violation and Enforcement Data
Source: EPA/Office of Drinking Water
Telephone: 202-564-3750
Violation and Enforcement data for Public Water Systems from the Safe Drinking Water Information System (SDWIS) after August 1995. Prior to August 1995, the data came from the Federal Reporting Data System (FRDS).

USGS Water Wells: USGS National Water Inventory System (NWIS)
This database contains descriptive information on sites where the USGS collects or has collected data on surface water and/or groundwater. The groundwater data includes information on wells, springs, and other sources of groundwater.

STATE RECORDS

Water Well Database
Source: Department of Water Resources
Telephone: 916-651-9648

California Drinking Water Quality Database
Source: Department of Public Health
Telephone: 916-324-2319
The database includes all drinking water compliance and special studies monitoring for the state of California since 1984. It consists of over 3,200,000 individual analyses along with well and water system information.

OTHER STATE DATABASE INFORMATION

California Oil and Gas Well Locations
Source: Department of Conservation
Telephone: 916-323-1779
Oil and Gas well locations in the state.

RADON

State Database: CA Radon
Source: Department of Health Services
Telephone: 916-324-2208
Radon Database for California

Area Radon Information
Source: USGS
Telephone: 703-356-4020
The National Radon Database has been developed by the U.S. Environmental Protection Agency (USEPA) and is a compilation of the EPA/State Residential Radon Survey and the National Residential Radon Survey. The study covers the years 1986 - 1992. Where necessary data has been supplemented by information collected at private sources such as universities and research institutions.

EPA Radon Zones
Source: EPA
Telephone: 703-356-4020
Sections 307 & 309 of IRAA directed EPA to list and identify areas of U.S. with the potential for elevated indoor radon levels.

PHYSICAL SETTING SOURCE RECORDS SEARCHED

OTHER

Airport Landing Facilities: Private and public use landing facilities
Source: Federal Aviation Administration, 800-457-6656

Epicenters: World earthquake epicenters, Richter 5 or greater
Source: Department of Commerce, National Oceanic and Atmospheric Administration

California Earthquake Fault Lines: The fault lines displayed on EDR's Topographic map are digitized quaternary fault lines, prepared in 1975 by the United State Geological Survey. Additional information (also from 1975) regarding activity at specific fault lines comes from California's Preliminary Fault Activity Map prepared by the California Division of Mines and Geology.

STREET AND ADDRESS INFORMATION

© 2015 TomTom North America, Inc. All rights reserved. This material is proprietary and the subject of copyright protection and other intellectual property rights owned by or licensed to Tele Atlas North America, Inc. The use of this material is subject to the terms of a license agreement. You will be held liable for any unauthorized copying or disclosure of this material.

APPENDIX C

Regulatory Documentation
(Provided on CD)

76P235M—5/63

434 South San Pedro Street AIR POLLUTION CONTROL DISTRICT Los Angeles 13, California

PERMIT TO OPERATE

P 2559

A/14-2

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times In accordance with Rule 10(c), this Permit to Operate must be posted or accessible.

Appl. No. G-838

LEGAL OWNER OR OPERATOR: L. A. CITY SCHOOL DISTRICTS
RESEDA HIGH SCHOOL

EQUIPMENT LOCATED AT: 18230 KITTRIDGE
RESEDA, CALIFORNIA 91335

EQUIPMENT DESCRIPTION AND CONDITIONS: SPRAY BOOTH, BIMES FLOOR TYPE, MODEL FB-6-8-T, 6'-0" W. X 8'-0" H. X 6'-8" D., WITH A 3/4 H.P. FAN.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION

This permit does not authorize the emission of air contaminents in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies.

* GOVERNMENT APPLICATION - NO FEE REQUIRED *

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Keith Malin
Keith Malin, Permit Processing

DATE April 23, 1964

76P235M—5/63

434 South San Pedro Street AIR POLLUTION CONTROL DISTRICT Los Angeles 13, California

PERMIT TO OPERATE

P 2561

A/14-2

Operation under this permit must be conducted in compliance with all data and specifications included with the application under which this permit is issued. The equipment must be properly maintained and kept in good operating condition at all times. In accordance with Rule 10(c), this Permit to Operate must be posted or accessible.

Appl. No. G-840

LEGAL OWNER OR OPERATOR: L. A. CITY SCHOOL DISTRICTS
RESEDA HIGH SCHOOL

EQUIPMENT LOCATED AT: 18230 KITTRIDGE
RESEDA, CALIFORNIA

EQUIPMENT DESCRIPTION AND CONDITIONS: SPRAY BOOTH, BINKS BENCH TYPE, MODEL DB-4-T, 4'-0"W. X 4'-4" H. X 5'-0" D., WITH A 3/4 H.P. FAN.

THIS PERMIT BECOMES VOID UPON ANY CHANGE OF OWNERSHIP OR ADDRESS, OR ANY ALTERATION

This permit does not authorize the emission of air contaminents in excess of those allowed by Division 20, Chapter 2, Article 3, of the Health and Safety Code of the State of California or the Rules and Regulations of the Air Pollution Control District. This permit cannot be considered as permission to violate existing laws, ordinances, regulation or statutes of other governmental agencies.

* GOVERNMENT APPLICATION - NO FEE REQUIRED *

VOID UNLESS VALIDATED

AIR POLLUTION CONTROL OFFICER

BY Beth Malin

Beth Malin, Permit Processing

DATE April 23, 1964

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
CITGO NO 2 DIESEL FUEL, LOW SULF					
DIESEL	b	55			b
-		0	0		
-					
GASOLINE					
GASOLINE	b	165			b
-		0	0		
-					
-		0	0		
A B DICK MIMEOGRAPH CORRECTION FLUID(In-active)	a	4	12		
Inactivated on: 12/31/1991					

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
ACETIC ACID (GLACIAL)(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
ACETONE(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BELT CLEANER(In-active) Inactivated on: 12/31/1991	a	16	64		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BLEACH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BLOCK PRINT INK(In-active) Inactivated on: 12/31/1991	a	98	110		
-		0	0		
BORANO AND LURON(In-active) Inactivated on: 12/31/1991	a	45	68		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAX HAND SOAP(In-active) Inactivated on: 12/31/1991	a	20	30		
-		0	0		
BRAKE FLUID(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
CB-40(In-active) Inactivated on: 12/31/1991	a	48	80		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
CLEANSER(In-active) Inactivated on: 12/31/1991	a	34	51		
-		0	0		
COMMERCIAL FERTILIZER(In-active) Inactivated on: 12/31/1991	a	90			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
COW PON(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
DDC(In-active) Inactivated on: 12/31/1991	a	38	57		
-		0	0		
DISPERSANT(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DRYING SOLUTION FOR NEGATIVES(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	35	57		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	40	60		
-		0	0		
DYE FOR PLASTIC LAMINATING(In-active) Inactivated on: 12/31/1991	a	116	174		
-		0	0		
ELMER'S SCHOOL GLUE(In-active) Inactivated on: 12/31/1991	a	3			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
GLAZE(In-active) Inactivated on: 12/31/1991	a	1			
-		0	0		
GLEEM STAINLESS STEEL CLEANER & POLISH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 12/31/1991	a	35	53		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	75	150		
-		0	0		
HYDRAULIC OIL TANKS(In-active) Inactivated on: 12/31/1991	a	40	120		
-		0	0		
KLEEN QUAT(In-active) Inactivated on: 12/31/1991	a	3	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
KWIK STRIP(In-active) Inactivated on: 12/31/1991	a	11	16		
-		0	0		
LAC MOTOR OIL(In-active) Inactivated on: 12/31/1991	a	48	72		
-		0	0		
LACQUER THINNER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
LACQUER, SEMI-GLOSS(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	12	18		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	31	46		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
MIMEOGRAPH STENCIL CEMENT(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MISTOLEN(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MONTAR(In-active) Inactivated on: 12/31/1991	a	5	8		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
O-SO KLEEN DISHWASHING LIQUID(In-active) Inactivated on: 12/31/1991	a	6	9		
-		0	0		
PLATE CONDITIONER/CLEANER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
POLISH/BUFF COMPOUND FOR PLASTICS(In-active) Inactivated on: 12/31/1991	a	16	24		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
POSTER PAINT(In-active) Inactivated on: 12/31/1991	a	230	260		
-		0	0		
PRINTER'S INK(In-active) Inactivated on: 12/31/1991	a	112	168		
-		0	0		
QUICK ACTION TYPE/PLATE CLEANER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
REPEAT-O-TYPE STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	30	45		
-		0	0		
ROUND-UP(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	12	20		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	81	108		
-		0	0		
SEWING MACHINE OIL(In-active) Inactivated on: 12/31/1991	a	12	20		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
SHELLAC SOLVENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
SPIRIT PROCESS(In-active) Inactivated on: 12/31/1991	a	19	39		
-		0	0		
STAIN FOR WOOD(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	9	13		
-		0	0		
THINNER RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
THINNER-TYPE OR CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TIMSEN SANITIZING SOLUTION(In-active) Inactivated on: 12/31/1991	a	8	12		
-		0	0		
TONER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
TURPENTINE(In-active) Inactivated on: 12/31/1991	a	1	1		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	10	15		
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	28	42		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
VANOASOLV(In-active) Inactivated on: 12/31/1991	a	18	27		
-		0	0		
WATER COLOR(In-active) Inactivated on: 12/31/1991	a	450	480		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	32	48		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
WEED WRANGLER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
WOOD FILLER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
WOOD GLUE (ELMER'S)(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
CITGO NO 2 DIESEL FUEL, LOW SULF					
DIESEL	b	55			b
-		0	0		
-					
GASOLINE					
GASOLINE	b	165			b
-		0	0		
-					
-		0	0		
A B DICK MIMEOGRAPH CORRECTION FLUID(In-active)	a	4	12		
Inactivated on: 12/31/1991					

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
ACETIC ACID (GLACIAL)(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
ACETONE(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BELT CLEANER(In-active) Inactivated on: 12/31/1991	a	16	64		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BLEACH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BLOCK PRINT INK(In-active) Inactivated on: 12/31/1991	a	98	110		
-		0	0		
BORANO AND LURON(In-active) Inactivated on: 12/31/1991	a	45	68		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAX HAND SOAP(In-active) Inactivated on: 12/31/1991	a	20	30		
-		0	0		
BRAKE FLUID(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
CB-40(In-active) Inactivated on: 12/31/1991	a	48	80		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
CLEANSER(In-active) Inactivated on: 12/31/1991	a	34	51		
-		0	0		
COMMERCIAL FERTILIZER(In-active) Inactivated on: 12/31/1991	a	90			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
COW PON(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
DDC(In-active) Inactivated on: 12/31/1991	a	38	57		
-		0	0		
DISPERSANT(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DRYING SOLUTION FOR NEGATIVES(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	35	57		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	40	60		
-		0	0		
DYE FOR PLASTIC LAMINATING(In-active) Inactivated on: 12/31/1991	a	116	174		
-		0	0		
ELMER'S SCHOOL GLUE(In-active) Inactivated on: 12/31/1991	a	3			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
GLAZE(In-active) Inactivated on: 12/31/1991	a	1			
-		0	0		
GLEEM STAINLESS STEEL CLEANER & POLISH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 12/31/1991	a	35	53		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	75	150		
-		0	0		
HYDRAULIC OIL TANKS(In-active) Inactivated on: 12/31/1991	a	40	120		
-		0	0		
KLEEN QUAT(In-active) Inactivated on: 12/31/1991	a	3	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
KWIK STRIP(In-active) Inactivated on: 12/31/1991	a	11	16		
-		0	0		
LAC MOTOR OIL(In-active) Inactivated on: 12/31/1991	a	48	72		
-		0	0		
LACQUER THINNER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
LACQUER, SEMI-GLOSS(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	12	18		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	31	46		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
MIMEOGRAPH STENCIL CEMENT(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MISTOLEN(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MONTAR(In-active) Inactivated on: 12/31/1991	a	5	8		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
O-SO KLEEN DISHWASHING LIQUID(In-active) Inactivated on: 12/31/1991	a	6	9		
-		0	0		
PLATE CONDITIONER/CLEANER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
POLISH/BUFF COMPOUND FOR PLASTICS(In-active) Inactivated on: 12/31/1991	a	16	24		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
POSTER PAINT(In-active) Inactivated on: 12/31/1991	a	230	260		
-		0	0		
PRINTER'S INK(In-active) Inactivated on: 12/31/1991	a	112	168		
-		0	0		
QUICK ACTION TYPE/PLATE CLEANER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
REPEAT-O-TYPE STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	30	45		
-		0	0		
ROUND-UP(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	12	20		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	81	108		
-		0	0		
SEWING MACHINE OIL(In-active) Inactivated on: 12/31/1991	a	12	20		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
SHELLAC SOLVENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
SPIRIT PROCESS(In-active) Inactivated on: 12/31/1991	a	19	39		
-		0	0		
STAIN FOR WOOD(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	9	13		
-		0	0		
THINNER RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
THINNER-TYPE OR CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TIMSEN SANITIZING SOLUTION(In-active) Inactivated on: 12/31/1991	a	8	12		
-		0	0		
TONER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
TURPENTINE(In-active) Inactivated on: 12/31/1991	a	1	1		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	10	15		
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	28	42		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
VANOASOLV(In-active) Inactivated on: 12/31/1991	a	18	27		
-		0	0		
WATER COLOR(In-active) Inactivated on: 12/31/1991	a	450	480		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	32	48		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date:
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
WEED WRANGLER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
WOOD FILLER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
WOOD GLUE (ELMER'S)(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
CITGO NO 2 DIESEL FUEL, LOW SULF					
DIESEL	b	55			b
-		0	0		
-					
GASOLINE					
GASOLINE	b	165			b
-		0	0		
-					
-		0	0		
A B DICK MIMEOGRAPH CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	4	12		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
ACETIC ACID (GLACIAL)(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
ACETONE(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BELT CLEANER(In-active) Inactivated on: 12/31/1991	a	16	64		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BLEACH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BLOCK PRINT INK(In-active) Inactivated on: 12/31/1991	a	98	110		
-		0	0		
BORANO AND LURON(In-active) Inactivated on: 12/31/1991	a	45	68		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAX HAND SOAP(In-active) Inactivated on: 12/31/1991	a	20	30		
-		0	0		
BRAKE FLUID(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
CB-40(In-active) Inactivated on: 12/31/1991	a	48	80		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
CLEANSER(In-active) Inactivated on: 12/31/1991	a	34	51		
-		0	0		
COMMERCIAL FERTILIZER(In-active) Inactivated on: 12/31/1991	a	90			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
COW PON(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
DDC(In-active) Inactivated on: 12/31/1991	a	38	57		
-		0	0		
DISPERSANT(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DRYING SOLUTION FOR NEGATIVES(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	35	57		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	40	60		
-		0	0		
DYE FOR PLASTIC LAMINATING(In-active) Inactivated on: 12/31/1991	a	116	174		
-		0	0		
ELMER'S SCHOOL GLUE(In-active) Inactivated on: 12/31/1991	a	3			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
GLAZE(In-active) Inactivated on: 12/31/1991	a	1			
-		0	0		
GLEEM STAINLESS STEEL CLEANER & POLISH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 12/31/1991	a	35	53		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	75	150		
-		0	0		
HYDRAULIC OIL TANKS(In-active) Inactivated on: 12/31/1991	a	40	120		
-		0	0		
KLEEN QUAT(In-active) Inactivated on: 12/31/1991	a	3	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
KWIK STRIP(In-active) Inactivated on: 12/31/1991	a	11	16		
-		0	0		
LAC MOTOR OIL(In-active) Inactivated on: 12/31/1991	a	48	72		
-		0	0		
LACQUER THINNER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
LACQUER, SEMI-GLOSS(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	12	18		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	31	46		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
MIMEOGRAPH STENCIL CEMENT(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MISTOLEN(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MONTAR(In-active) Inactivated on: 12/31/1991	a	5	8		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
O-SO KLEEN DISHWASHING LIQUID(In-active) Inactivated on: 12/31/1991	a	6	9		
-		0	0		
PLATE CONDITIONER/CLEANER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
POLISH/BUFF COMPOUND FOR PLASTICS(In-active) Inactivated on: 12/31/1991	a	16	24		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
POSTER PAINT(In-active) Inactivated on: 12/31/1991	a	230	260		
-		0	0		
PRINTER'S INK(In-active) Inactivated on: 12/31/1991	a	112	168		
-		0	0		
QUICK ACTION TYPE/PLATE CLEANER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
REPEAT-O-TYPE STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	30	45		
-		0	0		
ROUND-UP(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	12	20		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	81	108		
-		0	0		
SEWING MACHINE OIL(In-active) Inactivated on: 12/31/1991	a	12	20		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
SHELLAC SOLVENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
SPIRIT PROCESS(In-active) Inactivated on: 12/31/1991	a	19	39		
-		0	0		
STAIN FOR WOOD(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	9	13		
-		0	0		
THINNER RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
THINNER-TYPE OR CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TIMSEN SANITIZING SOLUTION(In-active) Inactivated on: 12/31/1991	a	8	12		
-		0	0		
TONER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
TURPENTINE(In-active) Inactivated on: 12/31/1991	a	1	1		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	10	15		
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	28	42		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
VANOASOLV(In-active) Inactivated on: 12/31/1991	a	18	27		
-		0	0		
WATER COLOR(In-active) Inactivated on: 12/31/1991	a	450	480		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	32	48		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2013
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
WEED WRANGLER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
WOOD FILLER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
WOOD GLUE (ELMER'S)(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
CITGO NO 2 DIESEL FUEL, LOW SULF					
DIESEL	b	55			b
-		0	0		
-					
GASOLINE					
GASOLINE	b	165			b
-		0	0		
-					
-		0	0		
A B DICK MIMEOGRAPH CORRECTION FLUID(In-active)	a	4	12		
Inactivated on: 12/31/1991					

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
ACETIC ACID (GLACIAL)(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
ACETONE(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BELT CLEANER(In-active) Inactivated on: 12/31/1991	a	16	64		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BLEACH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
BLOCK PRINT INK(In-active) Inactivated on: 12/31/1991	a	98	110		
-		0	0		
BORANO AND LURON(In-active) Inactivated on: 12/31/1991	a	45	68		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
BORAX HAND SOAP(In-active) Inactivated on: 12/31/1991	a	20	30		
-		0	0		
BRAKE FLUID(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
CB-40(In-active) Inactivated on: 12/31/1991	a	48	80		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
CLEANER-AUTO PARTS(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
CLEANSER(In-active) Inactivated on: 12/31/1991	a	34	51		
-		0	0		
COMMERCIAL FERTILIZER(In-active) Inactivated on: 12/31/1991	a	90			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
COW PON(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
DDC(In-active) Inactivated on: 12/31/1991	a	38	57		
-		0	0		
DISPERSANT(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DRYING SOLUTION FOR NEGATIVES(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	35	57		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
DUPLICATING FLUID(In-active) Inactivated on: 12/31/1991	a	40	60		
-		0	0		
DYE FOR PLASTIC LAMINATING(In-active) Inactivated on: 12/31/1991	a	116	174		
-		0	0		
ELMER'S SCHOOL GLUE(In-active) Inactivated on: 12/31/1991	a	3			

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
GLAZE(In-active) Inactivated on: 12/31/1991	a	1			
-		0	0		
GLEEM STAINLESS STEEL CLEANER & POLISH(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
GREASE, MULTI PURPOSE(In-active) Inactivated on: 12/31/1991	a	35	53		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
HAND SOAP(In-active) Inactivated on: 12/31/1991	a	75	150		
-		0	0		
HYDRAULIC OIL TANKS(In-active) Inactivated on: 12/31/1991	a	40	120		
-		0	0		
KLEEN QUAT(In-active) Inactivated on: 12/31/1991	a	3	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
KWIK STRIP(In-active) Inactivated on: 12/31/1991	a	11	16		
-		0	0		
LAC MOTOR OIL(In-active) Inactivated on: 12/31/1991	a	48	72		
-		0	0		
LACQUER THINNER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
LACQUER, SEMI-GLOSS(In-active) Inactivated on: 12/31/1991	a	3	5		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	12	18		
-		0	0		
LIQUID PAPER(In-active) Inactivated on: 12/31/1991	a	31	46		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
MIMEOGRAPH STENCIL CEMENT(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MISTOLEN(In-active) Inactivated on: 12/31/1991	a	5	8		
-		0	0		
MONTAR(In-active) Inactivated on: 12/31/1991	a	5	8		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
O-SO KLEEN DISHWASHING LIQUID(In-active) Inactivated on: 12/31/1991	a	6	9		
-		0	0		
PLATE CONDITIONER/CLEANER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
POLISH/BUFF COMPOUND FOR PLASTICS(In-active) Inactivated on: 12/31/1991	a	16	24		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
POSTER PAINT(In-active) Inactivated on: 12/31/1991	a	230	260		
-		0	0		
PRINTER'S INK(In-active) Inactivated on: 12/31/1991	a	112	168		
-		0	0		
QUICK ACTION TYPE/PLATE CLEANER(In-active) Inactivated on: 12/31/1991	a	2	3		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
REPEAT-O-TYPE STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	30	45		
-		0	0		
ROUND-UP(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	12	20		
-		0	0		
RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	81	108		
-		0	0		
SEWING MACHINE OIL(In-active) Inactivated on: 12/31/1991	a	12	20		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
SHELLAC SOLVENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
SPIRIT PROCESS(In-active) Inactivated on: 12/31/1991	a	19	39		
-		0	0		
STAIN FOR WOOD(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
STENCIL CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	9	13		
-		0	0		
THINNER RUBBER CEMENT(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
THINNER-TYPE OR CORRECTION FLUID(In-active) Inactivated on: 12/31/1991	a	1	2		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TIMSEN SANITIZING SOLUTION(In-active) Inactivated on: 12/31/1991	a	8	12		
-		0	0		
TONER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
TURPENTINE(In-active) Inactivated on: 12/31/1991	a	1	1		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	4	6		
-		0	0		
TYPEWRITER CLEANER(In-active) Inactivated on: 12/31/1991	a	10	15		
-		0	0		
UNI-KLEEN(In-active) Inactivated on: 12/31/1991	a	28	42		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
VANOASOLV(In-active) Inactivated on: 12/31/1991	a	18	27		
-		0	0		
WATER COLOR(In-active) Inactivated on: 12/31/1991	a	450	480		
-		0	0		
WD-40(In-active) Inactivated on: 12/31/1991	a	32	48		

City of LOS ANGELES
CALIFORNIA

LOS ANGELES FIRE DEPARTMENT
200 NORTH MAIN STREET
LOS ANGELES, CA 90012
(213) 978-3680

Business No.: FA0013514
Business Name: LAUSD - RESEDA HIGH SCHOOL
Business Mailing Address: 333 S BEAUDRY AVE 28TH FL
LOS ANGELES, CA 90017
Storage Address: 18230 W KITTRIDGE ST

Date:
Last Inspection Date: 12/10/2013
Permit Date: 07/01/2016
RFI Request No:
RFI Requestor Name:

Chemical & Ingredients	Haz. Mat. Type	Max. Qnt on hand:	Yearly Qnt	Product Storage Type	Physical State
-		0	0		
WEED WRANGLER(In-active) Inactivated on: 12/31/1991	a	1	2		
-		0	0		
WOOD FILLER(In-active) Inactivated on: 12/31/1991	a	2	3		
-		0	0		
WOOD GLUE (ELMER'S)(In-active) Inactivated on: 12/31/1991	a	1	2		

APPENDIX D

Historical Research Documentation
(Provided on CD)

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.12
June 20, 2017

The EDR Aerial Photo Decade Package

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

06/20/17

Site Name:

Reseda High School
18230 Kittridge Street
Reseda, CA 91335
EDR Inquiry # 4971046.12

Client Name:

Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Manasi Chavan

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

Search Results:

Year	Scale	Details	Source
2012	1"=500'	Flight Year: 2012	USDA/NAIP
2010	1"=500'	Flight Year: 2010	USDA/NAIP
2009	1"=500'	Flight Year: 2009	USDA/NAIP
2005	1"=500'	Flight Year: 2005	USDA/NAIP
2002	1"=500'	Flight Date: June 10, 2002	USDA
1995	1"=500'	Acquisition Date: October 03, 1995	USGS/DOQQ
1989	1"=500'	Flight Date: August 22, 1989	USDA
1983	1"=500'	Flight Date: November 19, 1983	EDR Proprietary Brewster Pacific
1977	1"=500'	Flight Date: April 25, 1977	EDR Proprietary Brewster Pacific
1972	1"=500'	Flight Date: November 09, 1972	EDR Proprietary Brewster Pacific
1970	1"=500'	Flight Date: February 08, 1970	EDR Proprietary Brewster Pacific
1967	1"=500'	Flight Date: August 13, 1967	USGS
1964	1"=500'	Flight Date: July 28, 1964	USGS
1952	1"=500'	Flight Date: July 09, 1952	USGS
1947	1"=500'	Flight Date: August 15, 1947	USGS
1938	1"=500'	Flight Date: May 13, 1938	USDA
1928	1"=500'	Flight Date: January 01, 1928	FAIR

When delivered electronically by EDR, the aerial photo images included with this report are for ONE TIME USE ONLY. Further reproduction of these aerial photo images is prohibited without permission from EDR. For more information contact your EDR Account Executive.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

INQUIRY #: 4971046.12
YEAR: 2012
= 500'
N
EDR

INQUIRY #: 4971046.12
YEAR: 2010
= 500'
N
EDR

INQUIRY #: 4971046.12
YEAR: 2009
= 500'
N
EDR

INQUIRY #: 4971046.12
YEAR: 2005
= 500'
N
EDR

INQUIRY #: 4971046.12
YEAR: 2002
= 500'
N
EDR

INQUIRY #: 4971046.12

YEAR: 1995

= 500'

N

EDR

INQUIRY #: 4971046.12
YEAR: 1989
= 500'
N
EDR

INQUIRY #: 4971046.12

YEAR: 1983

= 500'

N

EDR

INQUIRY #: 4971046.12
YEAR: 1977
= 500'
N
EDR

INQUIRY #: 4971046.12

YEAR: 1972

= 500'

N

EDR

INQUIRY #: 4971046.12

YEAR: 1970

= 500'

N

EDR

INQUIRY #: 4971046.12
YEAR: 1967
= 500'
N
EDR

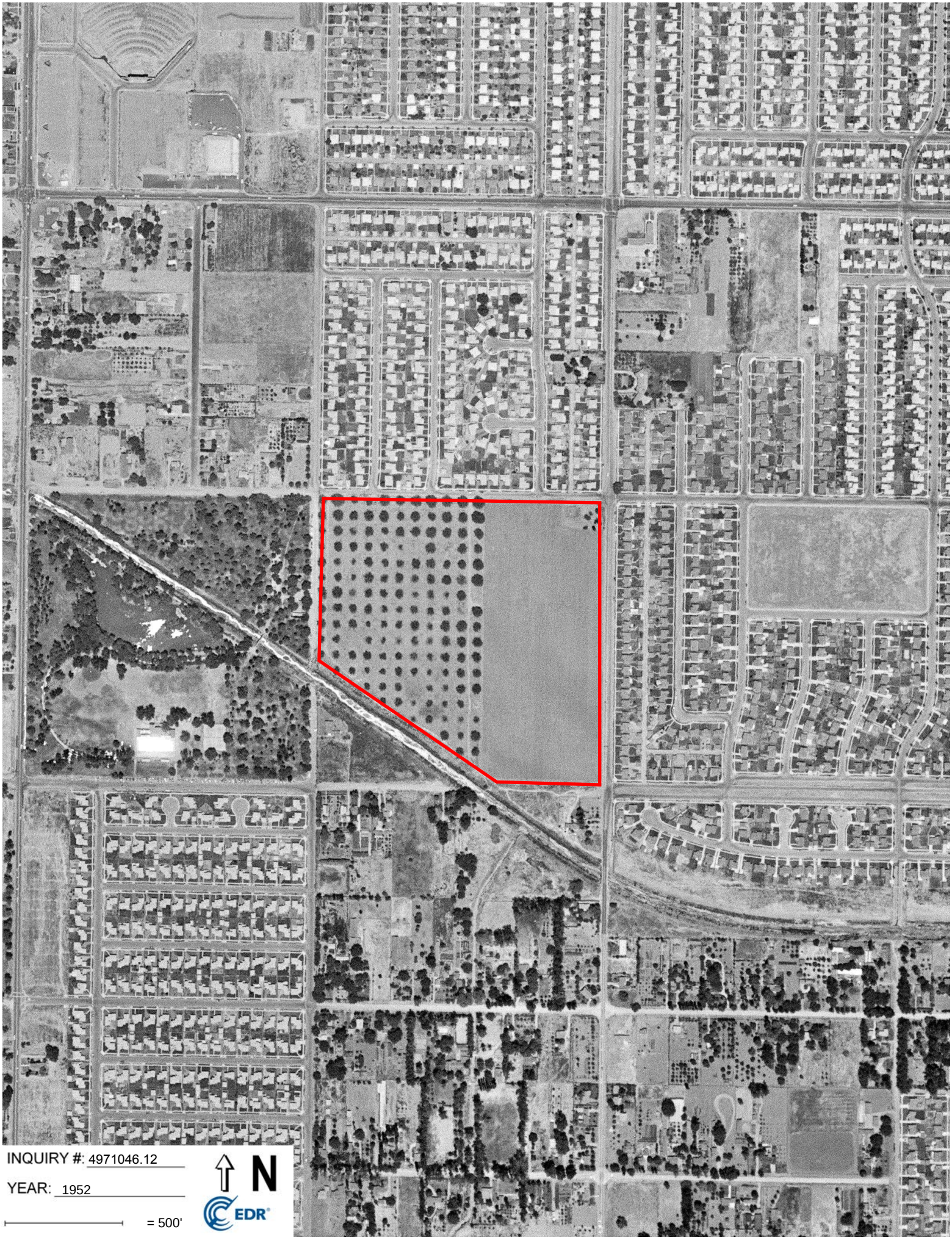
INQUIRY #: 4971046.12

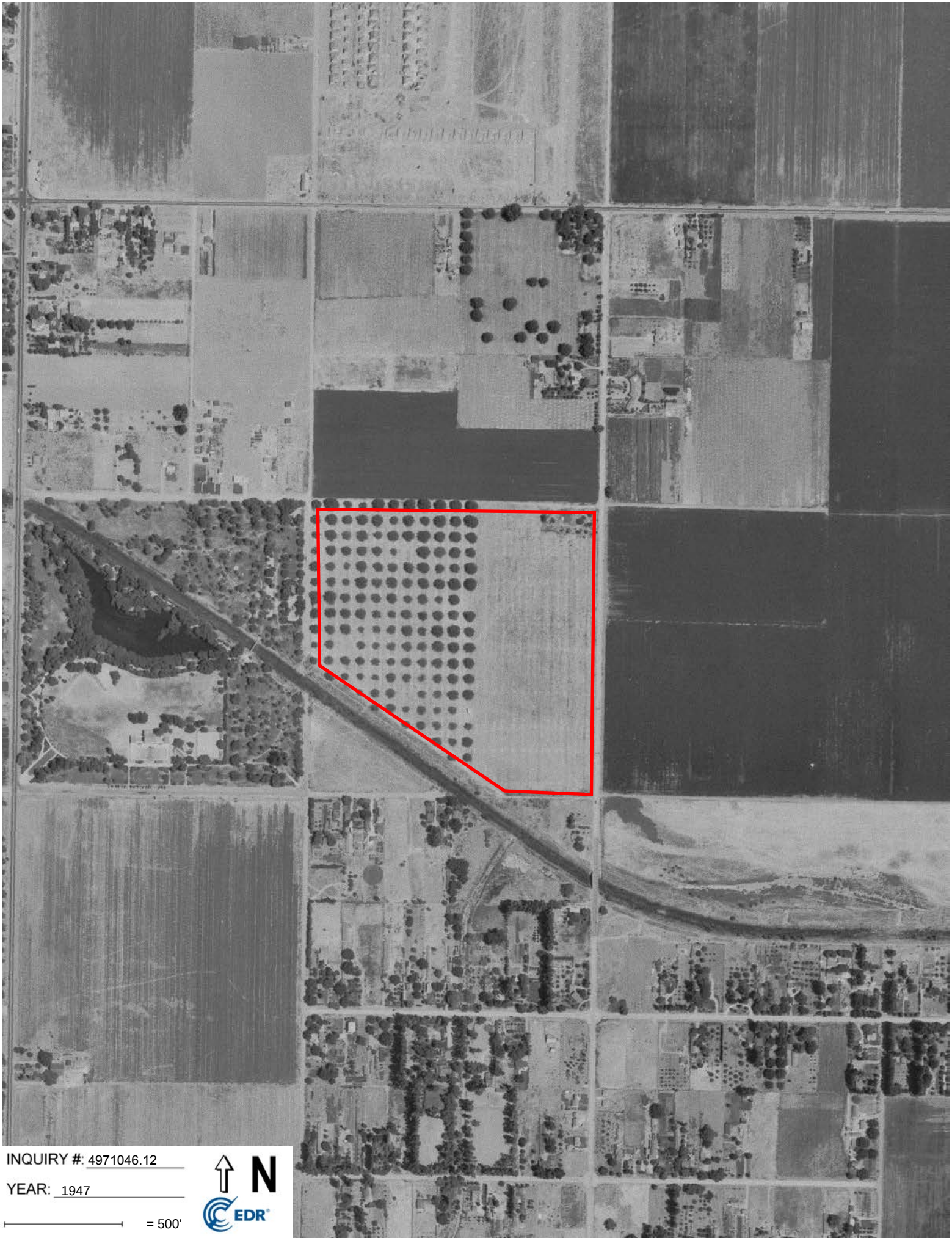
YEAR: 1964

= 500'

N

EDR


INQUIRY #: 4971046.12
YEAR: 1952
= 500'
N
EDR



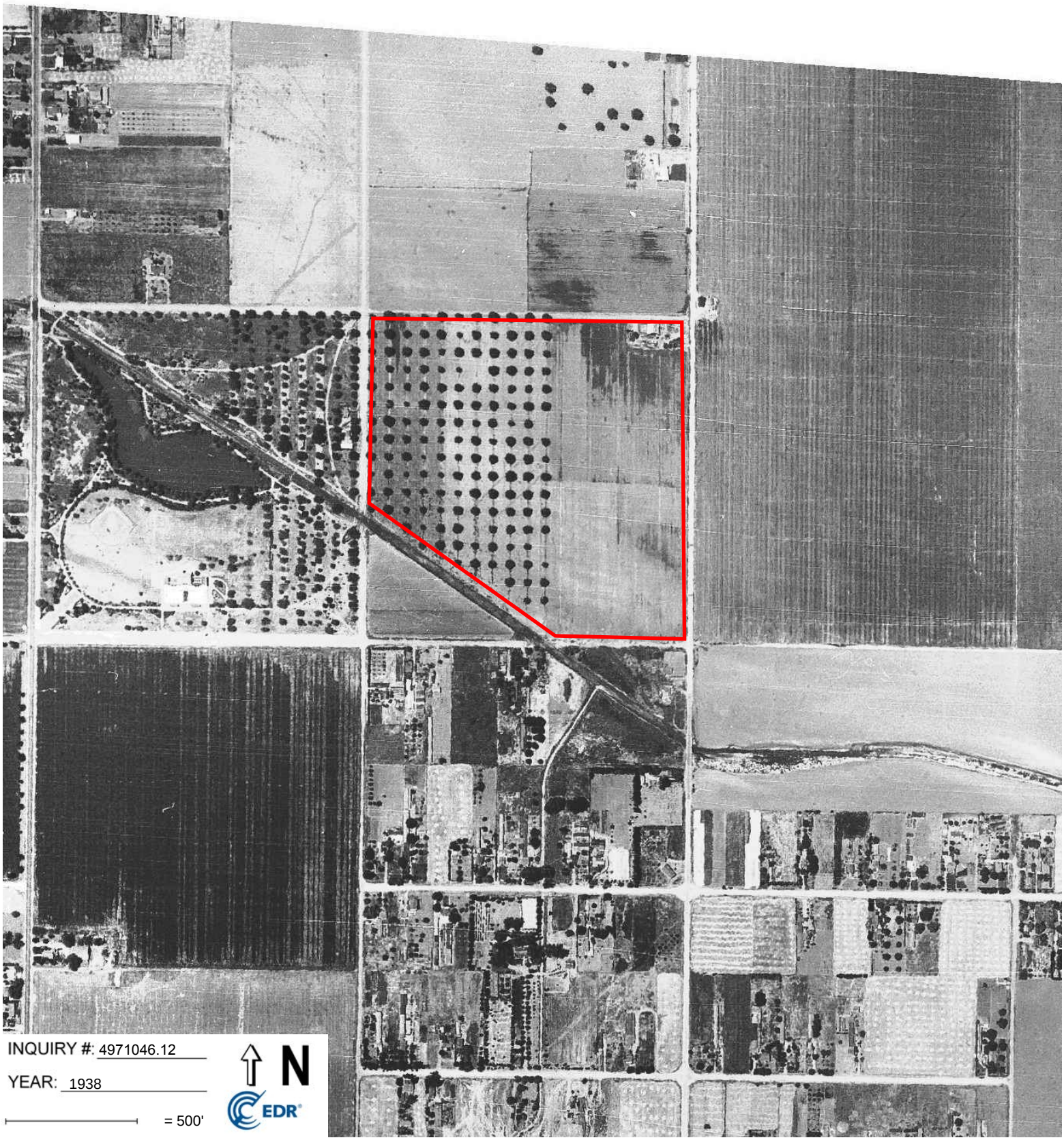
INQUIRY #: 4971046.12

YEAR: 1947

= 500'

N

EDR


INQUIRY #: 4971046.12
YEAR: 1938
= 500'
N
EDR

INQUIRY #: 4971046.12
YEAR: 1928
= 500'
N
EDR

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.4
June 19, 2017

EDR Historical Topo Map Report

with QuadMatch™

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Historical Topo Map Report

06/19/17

Site Name:	Client Name:
Reseda High School	Ninyo & Moore
18230 Kittridge Street	475 Goddard
Reseda, CA 91335	Irvine, CA 92618
EDR Inquiry # 4971046.4	Contact: Manasi Chavan

EDR Topographic Map Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. EDR's Historical Topo Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topo Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the late 1800s.

Search Results:		*Coordinates:*	
P.O.#	210095004	**Latitude:**	34.188711 34° 11' 19" North
Project:	210095004	**Longitude:**	-118.529365 -118° 31' 46" West
		UTM Zone:	Zone 11 North
		UTM X Meters:	359073.32
		UTM Y Meters:	3784137.23
		Elevation:	728.79' above sea level

Maps Provided:

2012
1967
1952
1947
1944
1928
1903

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

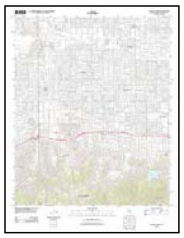
Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Topo Sheet Key

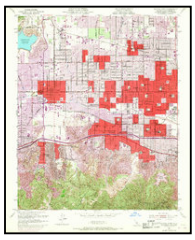
This EDR Topo Map Report is based upon the following USGS topographic map sheets.

2012 Source Sheets



Canoga Park
2012
7.5-minute, 24000

1967 Source Sheets

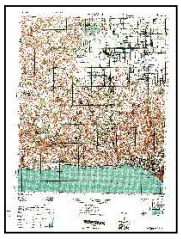


Canoga Park
1967
7.5-minute, 24000
Aerial Photo Revised 1967

1952 Source Sheets

Canoga Park
1952
7.5-minute, 24000
Aerial Photo Revised 1947

1947 Source Sheets



CALABASAS
1947
15-minute, 50000

Topo Sheet Key

This EDR Topo Map Report is based upon the following USGS topographic map sheets.

1944 Source Sheets

Calabasas
1944
15-minute, 62500
Aerial Photo Revised 1938

1928 Source Sheets

Zelzah
1928
7.5-minute, 24000

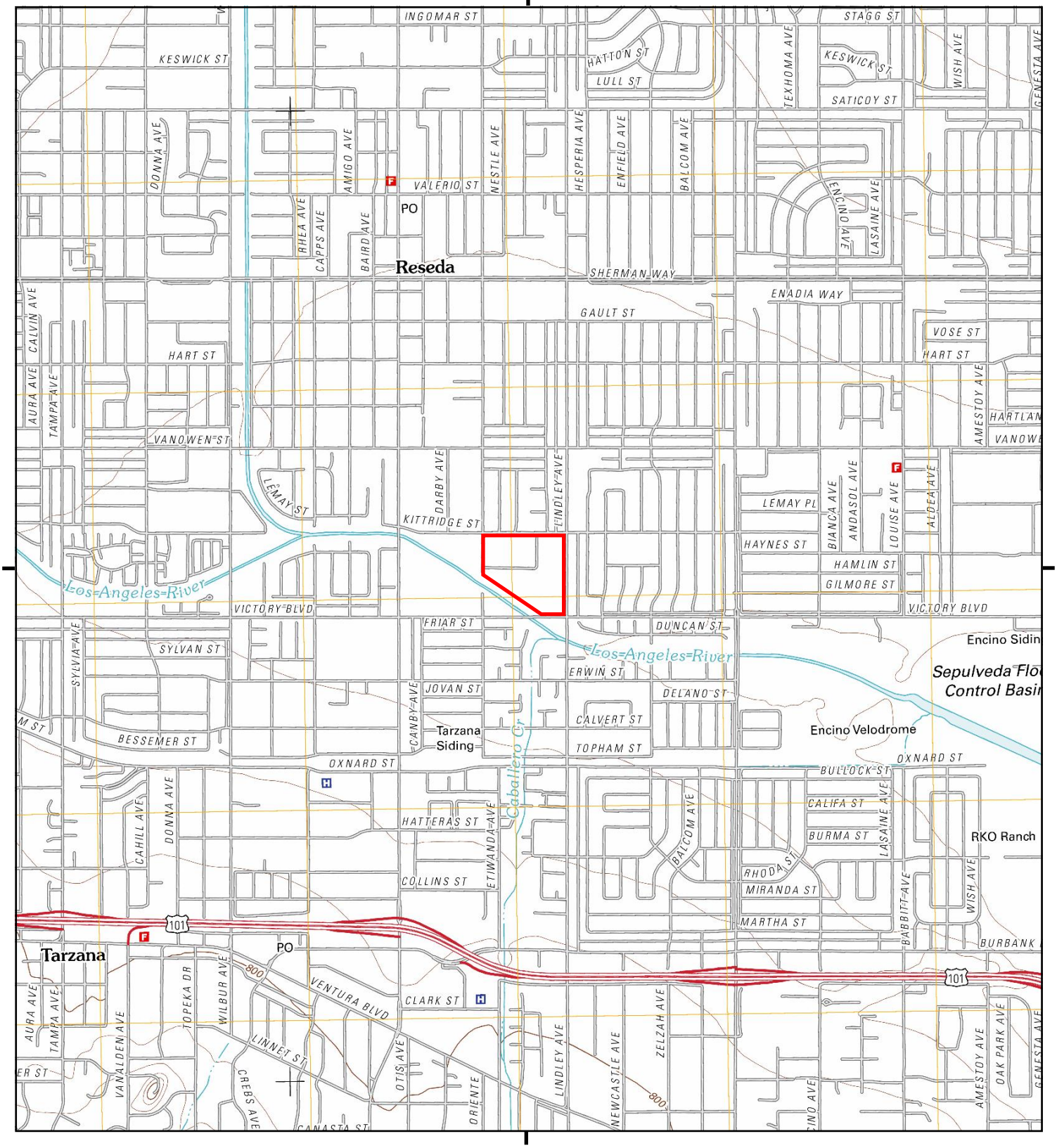
Reseda
1928
7.5-minute, 24000

1903 Source Sheets

Calabasas
1903
15-minute, 62500

Historical Topo Map

2012



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

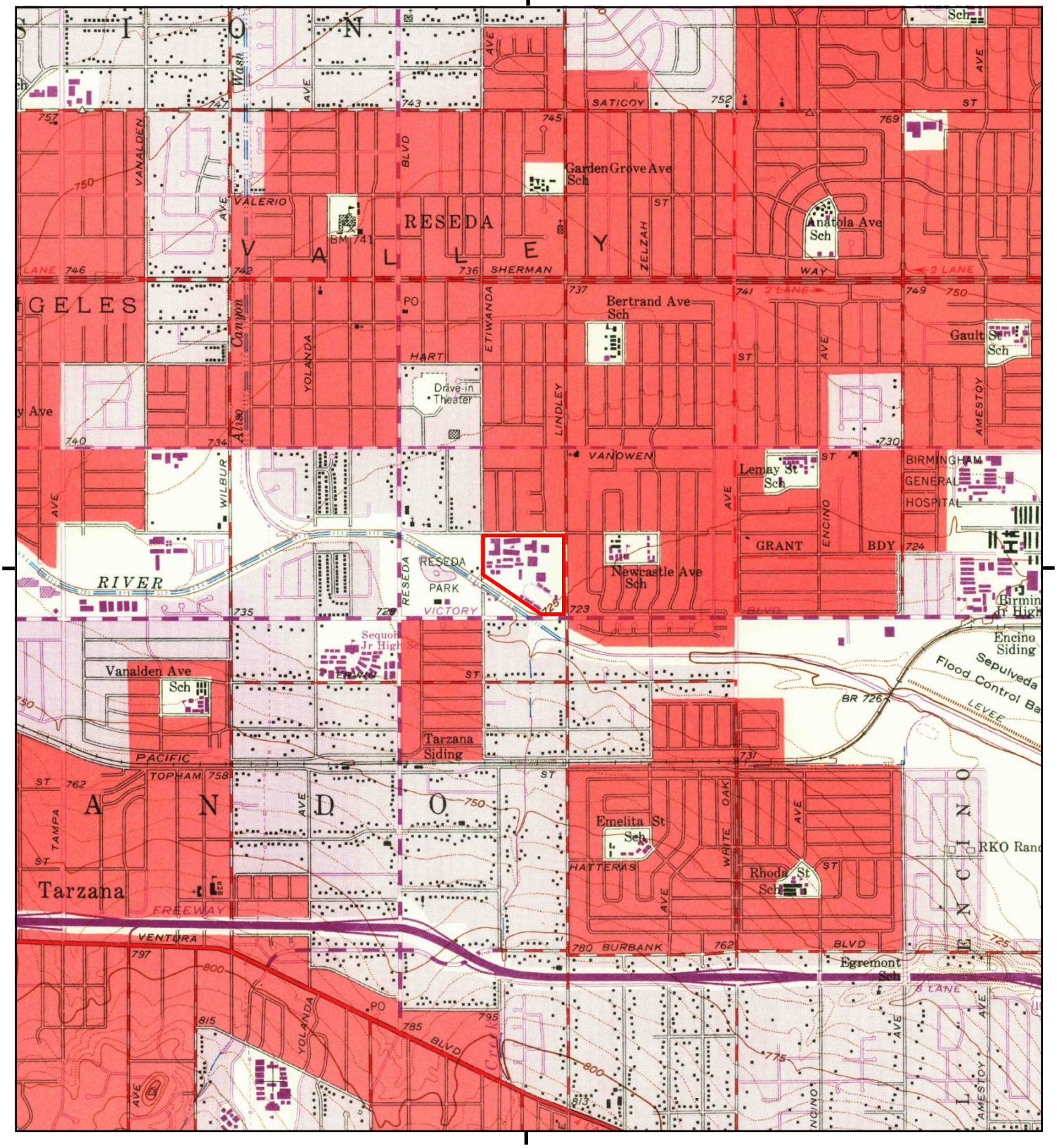
TP, Canoga Park, 2012, 7.5-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N

Historical Topo Map

1967



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

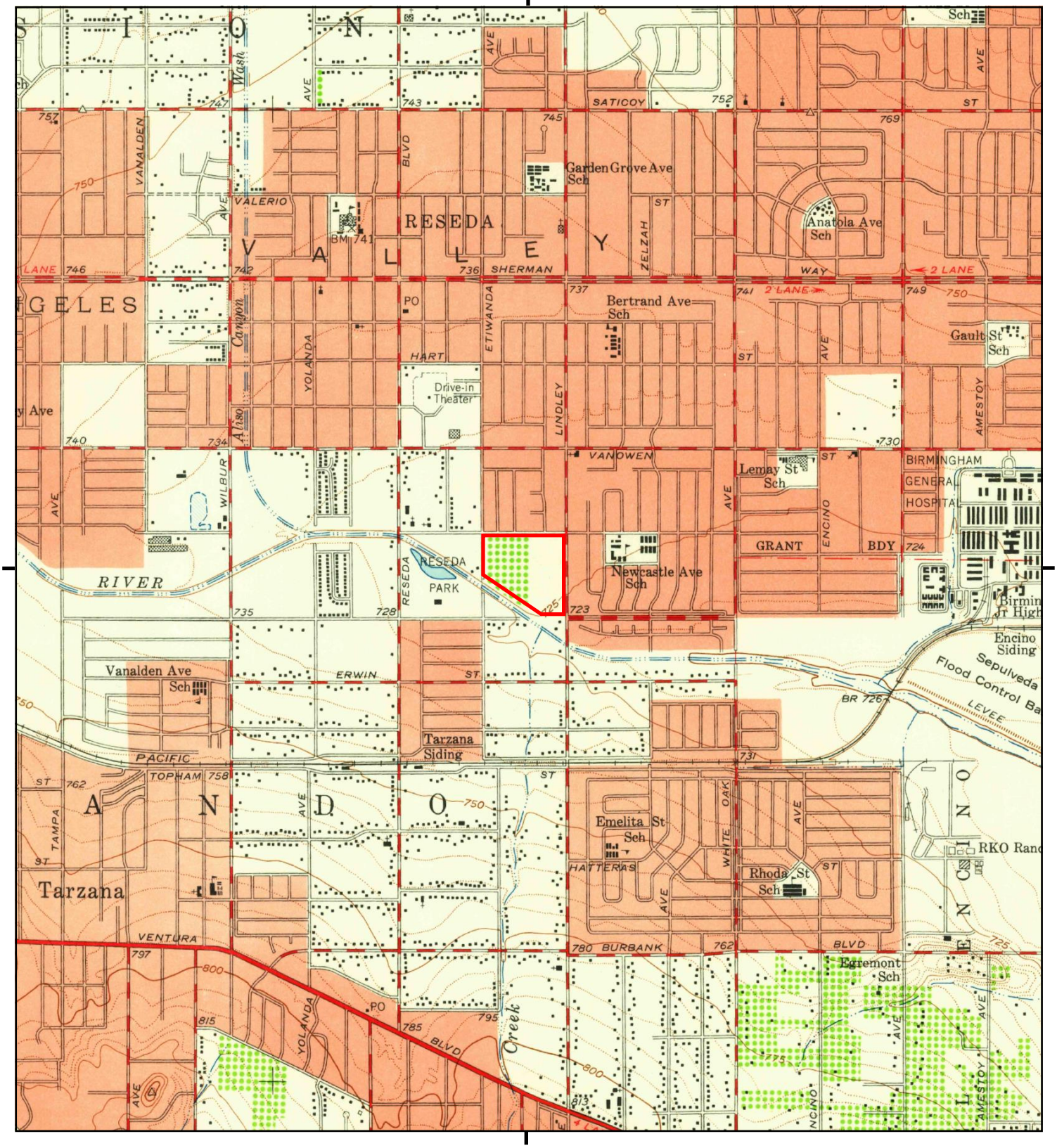
TP, Canoga Park, 1967, 7.5-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N

Historical Topo Map

1952



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

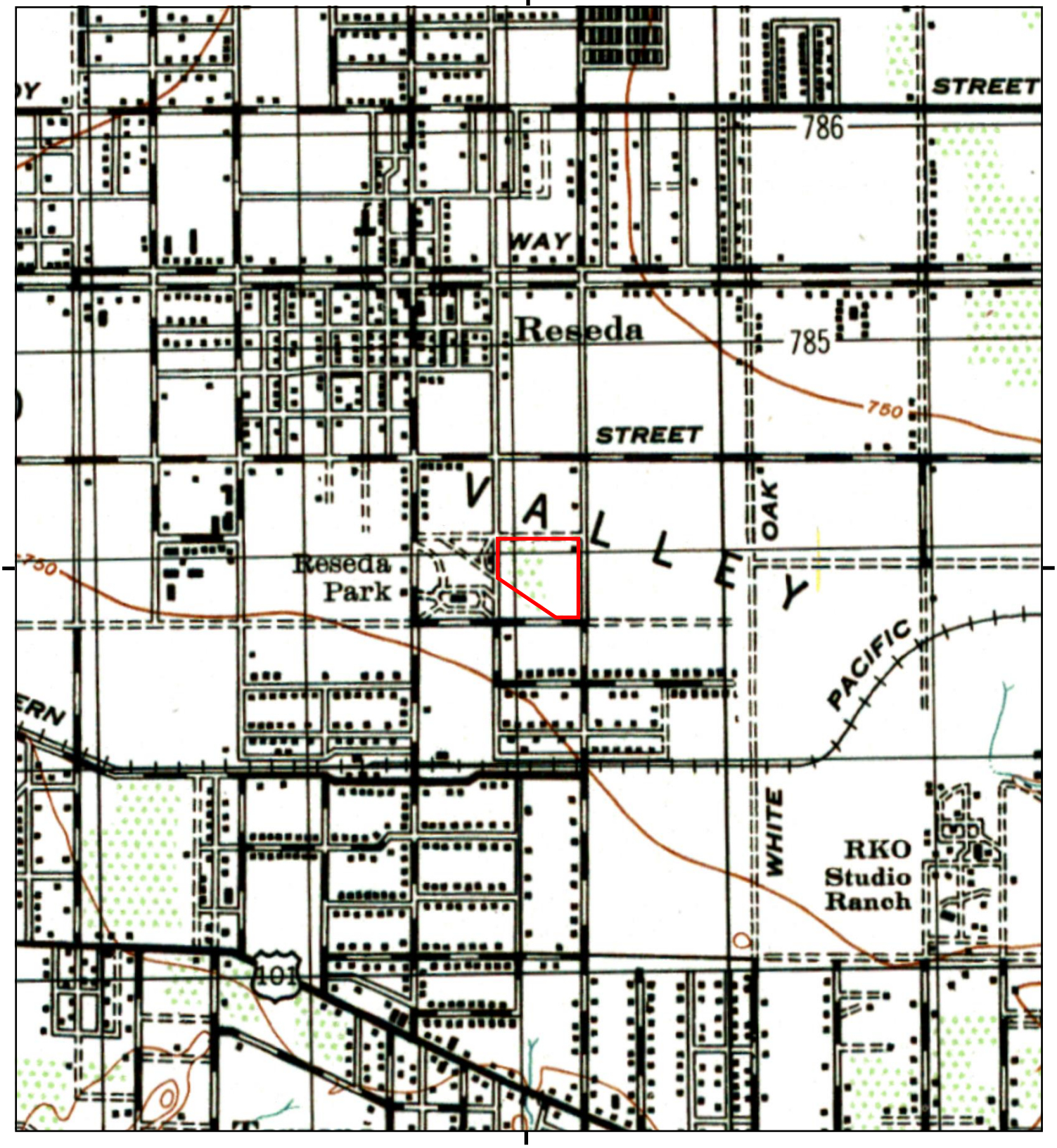
TP, Canoga Park, 1952, 7.5-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N

Historical Topo Map

1947



This report includes information from the following map sheet(s).

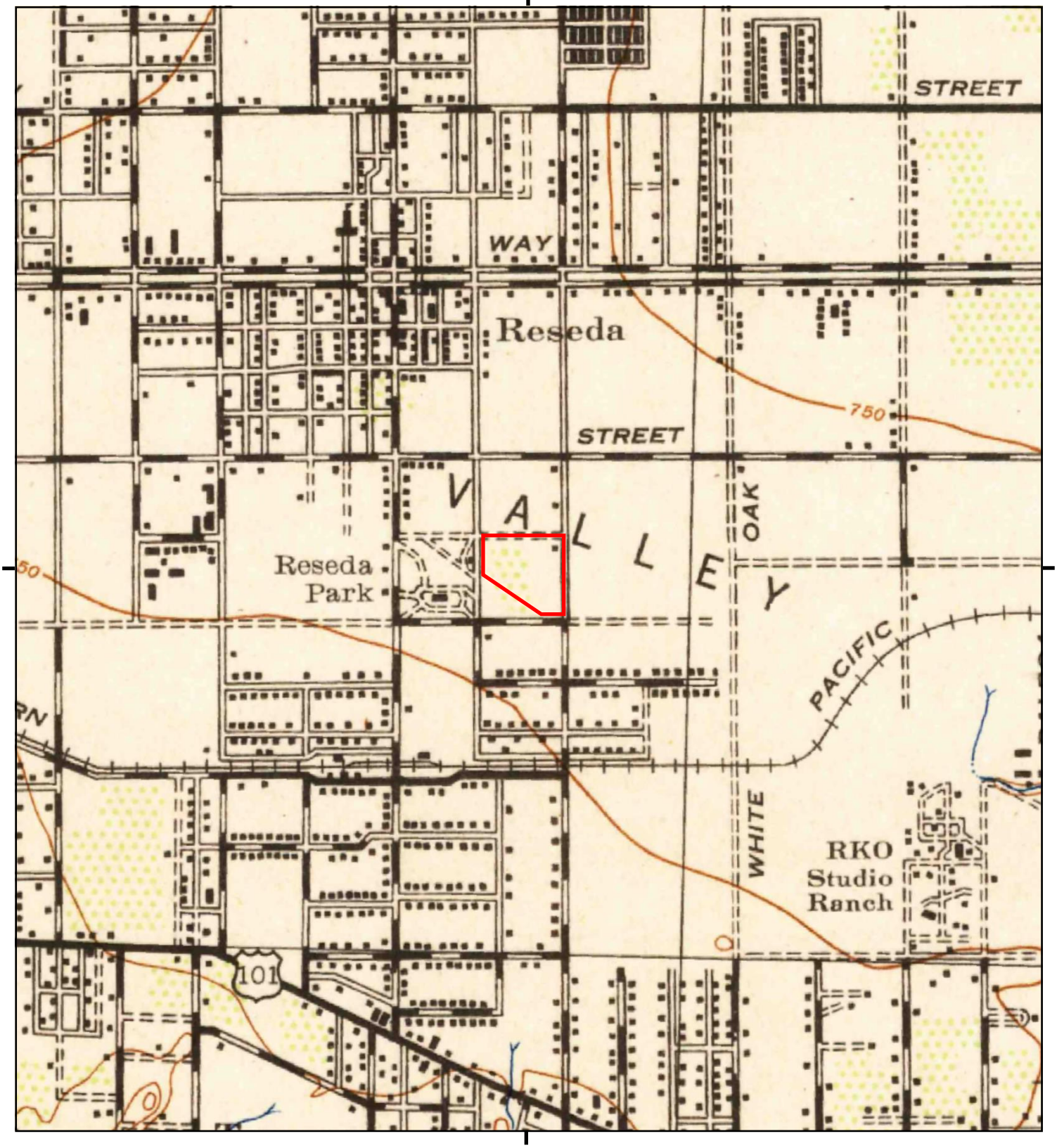
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, CALABASAS, 1947, 15-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

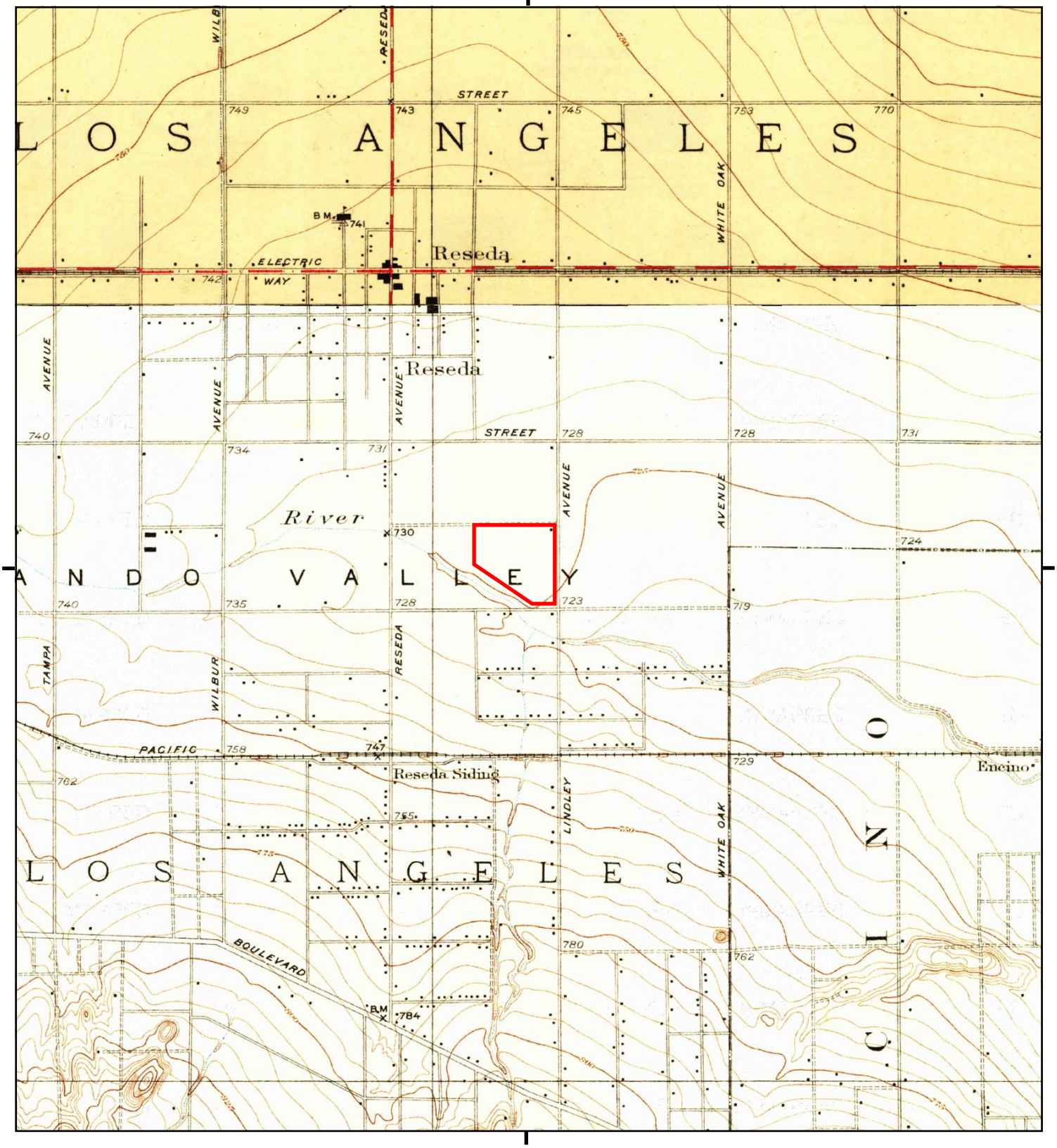
TP, Calabasas, 1944, 15-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N

Historical Topo Map

1928



This report includes information from the following map sheet(s).

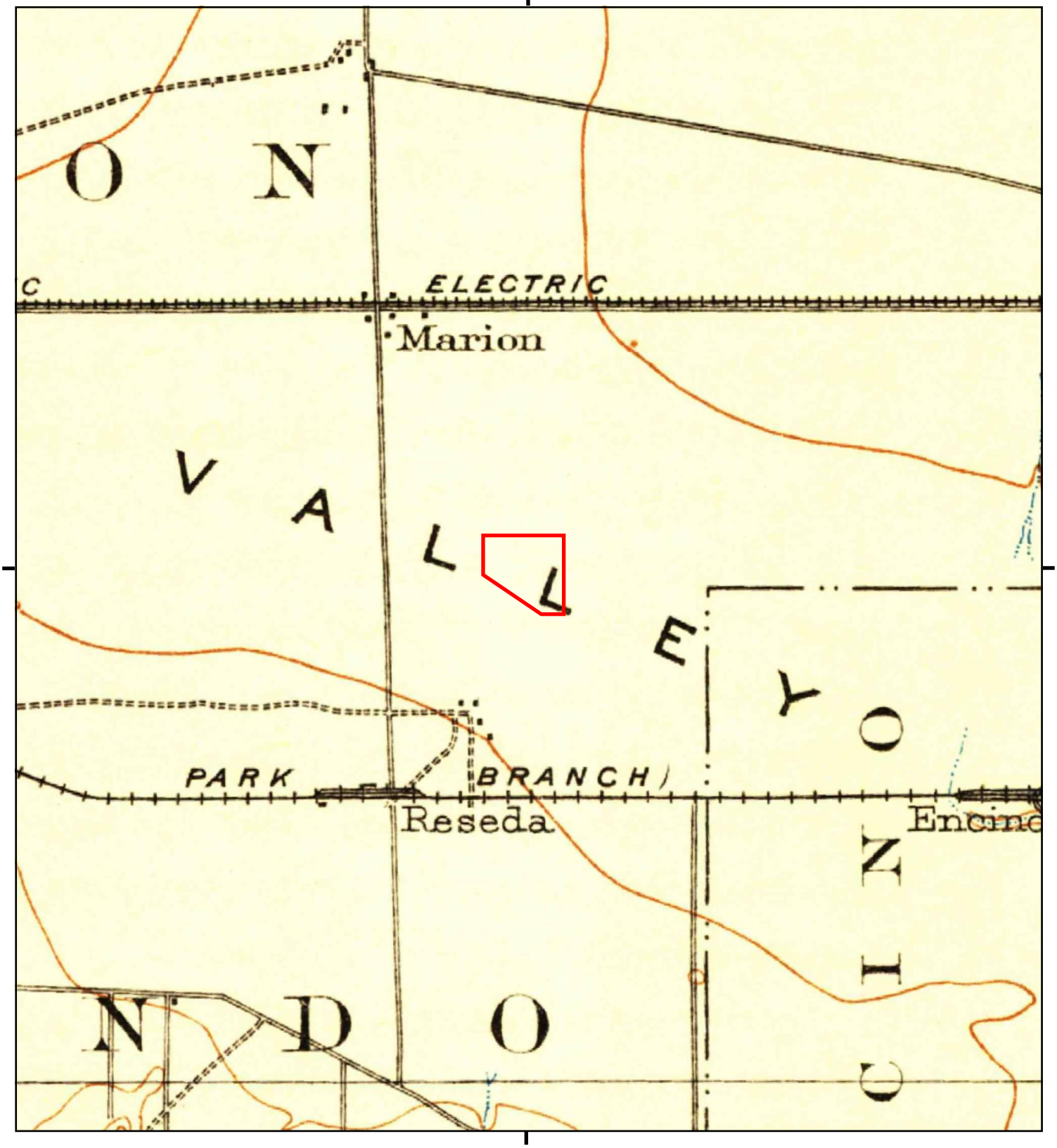
0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Reseda, 1928, 7.5-minute
N, Zelzah, 1928, 7.5-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N



This report includes information from the following map sheet(s).

0 Miles 0.25 0.5 1 1.5

NW N NE
W E
SW S SE

TP, Calabasas, 1903, 15-minute

SITE NAME: Reseda High School
ADDRESS: 18230 Kittridge Street
Reseda, CA 91335
CLIENT: Ninyo & Moore

N

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.3
June 19, 2017

Certified Sanborn® Map Report

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

06/19/17

Site Name:

Reseda High School
18230 Kittridge Street
Reseda, CA 91335
EDR Inquiry # 4971046.3

Client Name:

Ninyo & Moore
475 Goddard
Irvine, CA 92618
Contact: Manasi Chavan

The Sanborn Library has been searched by EDR and maps covering the target property location as provided by Ninyo & Moore were identified for the years listed below. The Sanborn Library is the largest, most complete collection of fire insurance maps. The collection includes maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow, and others. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by the Sanborn Library LLC, the copyright holder for the collection. Results can be authenticated by visiting www.edrnet.com/sanborn.

The Sanborn Library is continually enhanced with newly identified map archives. This report accesses all maps in the collection as of the day this report was generated.

Certified Sanborn Results:

Certification # 6329-4D24-AE6D

PO # 210095004

Project 210095004

UNMAPPED PROPERTY

This report certifies that the complete holdings of the Sanborn Library, LLC collection have been searched based on client supplied target property information, and fire insurance maps covering the target property were not found.

Sanborn® Library search results

Certification #: 6329-4D24-AE6D

The Sanborn Library includes more than 1.2 million fire insurance maps from Sanborn, Bromley, Perris & Browne, Hopkins, Barlow and others which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ☑ Library of Congress
- ☑ University Publications of America
- ☑ EDR Private Collection

The Sanborn Library LLC Since 1866™

Limited Permission To Make Copies

Ninyo & Moore (the client) is permitted to make up to FIVE photocopies of this Sanborn Map transmittal and each fire insurance map accompanying this report solely for the limited use of its customer. No one other than the client is authorized to make copies. Upon request made directly to an EDR Account Executive, the client may be permitted to make a limited number of additional photocopies. This permission is conditioned upon compliance by the client, its customer and their agents with EDR's copyright policy; a copy of which is available upon request.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OF DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT. Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction or forecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.5
June 21, 2017

The EDR-City Directory Abstract

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

Executive Summary

Findings

City Directory Images

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EXECUTIVE SUMMARY

DESCRIPTION

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1920 through 2014. This report compiles information gathered in this review by geocoding the latitude and longitude of properties identified and gathering information about properties within 660 feet of the target property.

A summary of the information obtained is provided in the text of this report.

RECORD SOURCES

EDR's Digital Archive combines historical directory listings from sources such as Cole Information and Dun & Bradstreet. These standard sources of property information complement and enhance each other to provide a more comprehensive report.

EDR is licensed to reproduce certain City Directory works by the copyright holders of those works. The purchaser of this EDR City Directory Report may include it in report(s) delivered to a customer. Reproduction of City Directories without permission of the publisher or licensed vendor may be a violation of copyright.

Data by infoUSA®

Copyright©2008
All Rights Reserved

RESEARCH SUMMARY

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Year	Source	TP	Adjoining	Text Abstract	Source Image
2014	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2010	EDR Digital Archive	-	X	X	-
	EDR Digital Archive	X	X	X	-
2006	Haines Company	-	-	-	-
2004	Haines Company	X	X	X	-
2003	Haines & Company	-	-	-	-
2001	Haines Company, Inc.	-	-	-	-
2000	Haines	-	-	-	-
1999	Haines Company	-	-	-	-
1996	GTE	-	-	-	-
1995	Pacific Bell	X	X	X	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1992	PACIFIC BELL WHITE PAGES	-	-	-	-
1991	Pacific Bell	X	X	X	-
1990	PACIFIC BELL WHITE PAGES	-	-	-	-
1986	Pacific Bell	-	-	-	-
1985	Pacific Bell	X	X	X	-
1981	Pacific Telephone	-	-	-	-
1980	Pacific Telephone	X	X	X	-
1976	R.L. Polk & Co Publishers	-	-	-	-
1975	GTE	X	X	X	-
	Pacific Telephone	X	X	X	-
1972	R. L. Polk & Co.	-	-	-	-
1971	R. L. Polk & Co.	-	-	-	-
1970	Pacific Telephone	X	X	X	-
1969	Pacific Telephone	-	-	-	-
1967	R. L. Polk & Co.	-	-	-	-
1966	Pacific Telephone	-	-	-	-
1965	Pacific Telephone	X	X	X	-
1964	Pacific Telephone	-	-	-	-
1963	Pacific Telephone	-	-	-	-
1962	Pacific Telephone	X	X	X	-
1961	R. L. Polk & Co.	-	-	-	-
1960	Pacific Telephone	-	-	-	-
1958	Pacific Telephone	-	-	-	-
1957	Pacific Telephone	-	-	-	-
1956	Pacific Telephone	X	X	X	-
1955	R. L. Polk & Co.	-	-	-	-
1954	R. L. Polk & Co.	-	-	-	-
1952	Los Angeles Directory Co.	-	-	-	-
1951	Los Angeles Directory Co.	-	-	-	-
1950	Pacific Telephone	-	X	X	-
1949	Los Angeles Directory Co.	-	-	-	-
1948	Associated Telephone Company, Ltd.	-	-	-	-
1947	Pacific Directory Co.	-	-	-	-
1946	Southern California Telephone Co	-	-	-	-
1945	R. L. Polk & Co.	-	-	-	-
1944	R. L. Polk & Co.	-	-	-	-
1942	Los Angeles Directory Co.	-	-	-	-
1940	Los Angeles Directory Co.	-	-	-	-
1939	Los Angeles Directory Co.	-	-	-	-
1938	Los Angeles Directory Company Publishers	-	-	-	-
1937	Los Angeles Directory Co.	-	-	-	-
1936	Los Angeles Directory Co.	-	-	-	-

EXECUTIVE SUMMARY

Year	Source	TP	Adjoining	Text Abstract	Source Image
1935	Los Angeles Directory Co.	-	-	-	-
1934	Los Angeles Directory Co.	-	-	-	-
1933	Los Angeles Directory Co.	-	-	-	-
1932	Los Angeles Directory Co.	-	-	-	-
1931	TRIBUNE-NEWS PUBLISHING CO.	-	-	-	-
1930	Los Angeles Directory Co.	-	-	-	-
1929	Los Angeles Directory Co.	-	-	-	-
1928	Los Angeles Directory Co.	-	-	-	-
1927	Los Angeles Directory Co.	-	-	-	-
1926	Los Angeles Directory Co.	-	-	-	-
1925	Los Angeles Directory Co.	-	-	-	-
1924	Los Angeles Directory Co.	-	-	-	-
1923	Los Angeles Directory Co.	-	-	-	-
1921	Los Angeles Directory Co.	-	-	-	-
1920	Los Angeles Directory Co.	-	-	-	-

FINDINGS

TARGET PROPERTY INFORMATION

ADDRESS

18230 Kittridge Street
Reseda, CA 91335

FINDINGS DETAIL

Target Property research detail.

Kittridge St

18230 Kittridge St

Year	Uses	Source
2014	LOS ANGELES UNIFIED SCHOOL DST	EDR Digital Archive
	MAGNOLIA SCIENCE ACADEMY	EDR Digital Archive
	RESEDA NJROTC	EDR Digital Archive
2010	LOS ANGELES UNIFIED SCHL DIST	EDR Digital Archive
	RESEDA NJROTC	EDR Digital Archive

KITTRIDGE ST

18230 KITTRIDGE ST

Year	Uses	Source
2004	NJROTC	Haines Company
	RESEDA HIGH SCHOOL	Haines Company
	STUDHT GOVT	Haines Company
1995	Community Adult School	Pacific Bell
	Day School	Pacific Bell
	Reseda High	Pacific Bell
	Reseda High School Student Government	Pacific Bell
1991	Communiy Adult School	Pacific Bell
	Day School	Pacific Bell
	Reseda High School Student Government	Pacific Bell
1985	Community Adult School	Pacific Bell
	Day School	Pacific Bell
	Reseda High School Student Government	Pacific Bell
1980	RESEDA HIGH	Pacific Telephone
	RESEDA HIGH SCHOOL STUDENT GOVERNMENT	Pacific Telephone
1975	Community Adult School	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Day School	Pacific Telephone
1970	RESEDA ADULT SCHOOL	Pacific Telephone
	RESEDA HIGH SCHOOL	Pacific Telephone
1965	BRESEDA HIGH SCHOOL	Pacific Telephone
	KEDZ1ERSKI	Pacific Telephone
1962	RESEDA HIGH SCHOOL	Pacific Telephone
	RESEDA HIGH SCHOOL ADULT EVENING SCHOOL	Pacific Telephone
1956	RESEDA HIGH SCHL ADULT EVENING SCHL	Pacific Telephone
	RESEDA SENIOR HIGH SCHOOL	Pacific Telephone

FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CHIMINEAS AVE

6600 CHIMINEAS AVE

Year	Uses	Source
2004	HERNANDEZMenam C	Haines Company
1970	REEVES DARRYL L	Pacific Telephone
	REEVES DARRYL L	Pacific Telephone
1962	ROBERTSON RICHARD	Pacific Telephone
1956	TAYLOR CLYDE W	Pacific Telephone

6601 CHIMINEAS AVE

Year	Uses	Source
2004	PICOLOMINIPaulo A	Haines Company
	PICOLOMINI A Nelson	Haines Company
1995	Pallares Plumbing	Pacific Bell
	Pallares Fernando	Pacific Bell
1991	Pallares Fernando & Valerie	Pacific Bell
1985	Zeider Cleon L	Pacific Bell
1980	ZEIDER CLEON L	Pacific Telephone
1975	Zeider Cleon L	Pacific Telephone
1970	ZEIDER CLEON L	Pacific Telephone
	ZEIDER CLEON L	Pacific Telephone
1965	ZE1OER CLEO0	Pacific Telephone
1962	ZEIDER CLEON L	Pacific Telephone
1956	GUTIERE CHRIS SURVYR	Pacific Telephone

6606 CHIMINEAS AVE

Year	Uses	Source
2004	CAMPOS Salvador	Haines Company
1965	BOYER BER	Pacific Telephone

6609 CHIMINEAS AVE

Year	Uses	Source
2004	CARLSON David	Haines Company
1991	Romeiss Erwin	Pacific Bell
1985	Romeiss Erwin	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Romen Bl	Pacific Bell
	Romeo Bl	Pacific Bell
1980	ROMEISS ERWIN	Pacific Telephone
1970	ROMEISS ERWIN	Pacific Telephone
	ROMEISS ERWIN	Pacific Telephone
1965	ROMEISS E	Pacific Telephone
1962	ROMEISS ERWIN	Pacific Telephone
1956	ROMEISS ERWIN R	Pacific Telephone

6612 CHIMINEAS AVE

Year	Uses	Source
2004	OMORANCarlos	Haines Company
1991	Grant Richard O	Pacific Bell
	Grant Robert 8	Pacific Bell
1985	Grant Richard O	Pacific Bell
1980	GRANT RICHARD O	Pacific Telephone
1975	Grant Richard O	Pacific Telephone
1970	GRANT RICHARD O	Pacific Telephone
	GRANT RICHARD O	Pacific Telephone
1965	GRANT R	Pacific Telephone
1962	COUNTRYMAN F KIRK	Pacific Telephone
1956	SCHMIDT FREDERICK F JR	Pacific Telephone

Chimineas Ave

6615 Chimineas Ave

Year	Uses	Source
2010	SAV TOURS & CHARTERS	EDR Digital Archive

CHIMINEAS AVE

6615 CHIMINEAS AVE

Year	Uses	Source
2004	CHARTERS	Haines Company
	VALENZUELAG	Haines Company
	ALFAROSergio	Haines Company
	SAV TOURS	Haines Company
1995	Wolf Jos A & Marian L	Pacific Bell
1991	Woleaf Jos A & Marian L	Pacific Bell
1985	Wolf Jos A & Marian L	Pacific Bell

FINDINGS

Year	Uses	Source
1980	WOLF JOS A & MARIAN L	Pacific Telephone
	WOLF DEBBIE	Pacific Telephone
1975	Wolf Jos A	Pacific Telephone
1970	WOLF JOS A	Pacific Telephone
	WOLF JOS A	Pacific Telephone
1965	AOLF JOS	Pacific Telephone
1962	WOLF JOS A	Pacific Telephone
1956	MORENO DONALD V R	Pacific Telephone

6618 CHIMINEAS AVE

Year	Uses	Source
2004	STREINENJohn	Haines Company
1980	WARNER GLADYS B	Pacific Telephone
1975	Warner Gladys B	Pacific Telephone
1962	WARNER WOODROW WILSON	Pacific Telephone
1956	WARNER WOODROW WILSON R	Pacific Telephone

6621 CHIMINEAS AVE

Year	Uses	Source
2004	LOPEZSheila	Haines Company
1995	Elbaum Irina	Pacific Bell
1991	Henderson Garth	Pacific Bell
1985	Henderson Garth	Pacific Bell
1980	CARRENO V	Pacific Telephone
1970	SUTHERLAND LESLIE D	Pacific Telephone
	SUTHERLAND LESLIE D	Pacific Telephone
1965	G LADBERG J	Pacific Telephone
1962	GOLDBERG JAY	Pacific Telephone
1956	GOLDBERG JULIUS R	Pacific Telephone

6624 CHIMINEAS AVE

Year	Uses	Source
2004	SANCHEZ Eslher	Haines Company
1995	Sanchez Angel	Pacific Bell
1991	Sanchez Angel	Pacific Bell
1980	COX TIMOTHY J	Pacific Telephone
1970	WAYCHOFF LOLA	Pacific Telephone
	WAYCHOFF LOLA	Pacific Telephone
	GLENDENNING WM E	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	GLENDENNING WM E	Pacific Telephone
1965	BLENOENNING WM	Pacific Telephone
1962	WAYCHOFF LOLA	Pacific Telephone
	GLENDENNING WM E	Pacific Telephone
1956	SCHROEDER ANNIE	Pacific Telephone

6630 CHIMINEAS AVE

Year	Uses	Source
2004	MANLULU William	Haines Company
1985	Buron Jay	Pacific Bell
1975	Strock D C	Pacific Telephone
1970	STROCK L J	Pacific Telephone
	STROCK L J	Pacific Telephone
1962	KELLY L E	Pacific Telephone
1956	WARLING BRUCE V R	Pacific Telephone

6633 CHIMINEAS AVE

Year	Uses	Source
2004	CHAVEZ Jose	Haines Company
1991	Tabberrah Roy W	Pacific Bell
1985	Long E D	Pacific Bell
1980	LONG E D	Pacific Telephone
1975	Long E D	Pacific Telephone
1970	LONG JOE	Pacific Telephone
	LONG JOE	Pacific Telephone
1965	LONG JUE	Pacific Telephone
1962	LONG JOE	Pacific Telephone

6636 CHIMINEAS AVE

Year	Uses	Source
2004	no info	Haines Company
1995	Duran Ascencion	Pacific Bell
1991	Smoley Michael	Pacific Bell
1985	Smoley Michael	Pacific Bell
1980	SMOLEY MICHAEL	Pacific Telephone
1975	Smoley Michael	Pacific Telephone
1970	SMOLEY MICHAEL	Pacific Telephone
	SMOLEY MICHAEL	Pacific Telephone
1965	SMOLEY ICHAEL	Pacific Telephone

Year	Uses	Source
1962	SMOLEY MICHAEL	Pacific Telephone
1956	O NEIL MARIAN E	Pacific Telephone

6639 CHIMINEAS AVE

Year	Uses	Source
2004	NOORZAY Mohammad N	Haines Company
1995	Noorzay Mohammad Nasim	Pacific Bell
1991	Noorzay Mohammad Nasim	Pacific Bell
1985	Noorzay Mohammad Nasim	Pacific Bell
1980	NOORZAY MOHAMMAD NASIM	Pacific Telephone
1965	HENDOERS3N CHAS	Pacific Telephone
1962	HENDERSON CHAS H	Pacific Telephone
1956	HENDERSON CHAS H	Pacific Telephone

6654 CHIMINEAS AVE

Year	Uses	Source
1970	MEANS JOS D RESEDA	Pacific Telephone
	MEANS JOS D RESEDA	Pacific Telephone

ETIWANDA AVE

6501 ETIWANDA AVE

Year	Uses	Source
2004	no info	Haines Company
1980	LOS ANGELES CITY OF RECREATION & PARKS DEPT ADMINISTRATIVE OFFICES EAST VAL	Pacific Telephone

6503 ETIWANDA AVE

Year	Uses	Source
2004	no info	Haines Company
1980	LOS ANGELES CITY OF RECREATION & PARKS DEPT CENTRAL AREA	Pacific Telephone
1975	West Valley	Pacific Telephone
1970	LOS ANGELES CITY OF RECREATION & PARKS DEPT DISTRICT OFFICES VALLEY AREA	Pacific Telephone
	LOS ANGELES CITY OF RECREATION & PARKS DEPT DISTRICT OFFICES VALLEY AREA	Pacific Telephone
1965	L A CITY RECREATION PARK	Pacific Telephone
1962	LOS ANGELES CITY OF RECREATION & PARKS DEPT BRAND PARK	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	LOS ANGELES CITY OF RECREATION & PARKS DEPT VAN NUYS PLAYGROUND	Pacific Telephone
1956	LOS ANGELES CITY OF RECREATION & PARKS DEPT	Pacific Telephone

6510 ETIWANDA AVE

Year	Uses	Source
1995	Zane Grey High School	Pacific Bell
1991	Zane Grey High School	Pacific Bell
1985	Zane Grey High School	Pacific Bell
1980	ZANE GREY HIGH SCHOOL	Pacific Telephone
1975	Grey High School	Pacific Telephone

6555 ETIWANDA AVE

Year	Uses	Source
1970	FINK BESS D	Pacific Telephone
	FINK BESS D	Pacific Telephone

6600 ETIWANDA AVE

Year	Uses	Source
2004	DINGLER Ladora	Haines Company
1995	Dingier Mack	Pacific Bell
1991	Dingier Mack	Pacific Bell
1985	Dingier Mack	Pacific Bell
1980	DINGLER MACK P	Pacific Telephone
1975	Dingler Mack P	Pacific Telephone
1962	BELKIN EDW J	Pacific Telephone

6606 ETIWANDA AVE

Year	Uses	Source
2004	ARIAS Oscar	Haines Company
1980	ALEXANDER FRED	Pacific Telephone
1975	Coyne Jos T Jr	Pacific Telephone
1970	LEVIN DAVE	Pacific Telephone
	LEVIN BERTINA R	Pacific Telephone
	LEVIN BERTINA R	Pacific Telephone
	LEVIN DAVE	Pacific Telephone
	LEVIN BERTINA R	Pacific Telephone
	LEVIN BERTINA R	Pacific Telephone
1965	LEVIN O AVE	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	LIGGINS ROBT E	Pacific Telephone
1956	HOFFMAN ROSE	Pacific Telephone
	HOFFMAN ALEX	Pacific Telephone

6612 ETIWANDA AVE

Year	Uses	Source
2004	MCCAINJohn	Haines Company

6618 ETIWANDA AVE

Year	Uses	Source
2004	SRODRIGUEZ Reynaldo	Haines Company
1995	Scheer Danny	Pacific Bell
1980	STEWARD WARREN C	Pacific Telephone
1975	Steward Warren C	Pacific Telephone
1970	STEWARD WARREN C	Pacific Telephone
	STEWARD WARREN C	Pacific Telephone
1965	STF8ARD W C	Pacific Telephone
1962	OGDEN RICHARD L	Pacific Telephone

6624 ETIWANDA AVE

Year	Uses	Source
2004	KOSMANHyman	Haines Company
1980	KARP SIMON	Pacific Telephone
1975	Karp Simon	Pacific Telephone
1970	KARP SIMON	Pacific Telephone
	KARP SIMON	Pacific Telephone
1965	KARP 5IMON	Pacific Telephone
1962	KARP SIMON	Pacific Telephone

6628 ETIWANDA AVE

Year	Uses	Source
2004	SGUARDADOCarlos	Haines Company
1985	Mirpuri Lachman	Pacific Bell
	Mirpuri Lachman	Pacific Bell
	Rock R M	Pacific Bell
1980	ROCK R M	Pacific Telephone
1970	MURPHY ARTHUR L	Pacific Telephone
	MURPHY ARTHUR L	Pacific Telephone
1965	MURPHY ARTHUR	Pacific Telephone
1962	MURPHY ARTHUR L	Pacific Telephone

FINDINGS

Year	Uses	Source
1956	HOLLAND T B	Pacific Telephone

6634 ETIWANDA AVE

Year	Uses	Source
2004	RIVAS Oscar	Haines Company
1995	Graphic Typesetting	Pacific Bell
	Carrillo Fidel	Pacific Bell
	Agheshtikian Krikor	Pacific Bell
1991	Mahserejian Hovhannes	Pacific Bell
	Graphic Typesetting	Pacific Bell
1985	Findlay Fred	Pacific Bell
1980	FINDLAY FRED	Pacific Telephone
1975	Findlay Fred	Pacific Telephone
1970	FINDLAY FRED	Pacific Telephone
	FINDLAY FRED	Pacific Telephone
1965	FINDLAY FRED	Pacific Telephone
1962	FINDLAY FRED	Pacific Telephone

6635 ETIWANDA AVE

Year	Uses	Source
2004	APARTMENTS	Haines Company
	AMIRHoshiar	Haines Company
	AWADMagdi	Haines Company
	CABALLEROJose	Haines Company
	DANSBYM e	Haines Company
	DANSBYMia	Haines Company
	FERILEY Betty	Haines Company
	GUTIERREZM Ortega	Haines Company
	JONES Cheryl	Haines Company
	LOPEZ Felicito	Haines Company
	MORAN Francisco I	Haines Company
	SABHAZiad M	Haines Company
	VIDAL Flora	Haines Company
	VIDALSandra	Haines Company
1995	Castro Jose Luis	Pacific Bell
	Cortez Rosa Haydee	Pacific Bell
	Martinez Soto Manuel	Pacific Bell
	Romero Miguel Antonio	Pacific Bell
1991	Duarte Maria	Pacific Bell

FINDINGS

Year	*Uses*	*Source*
1991	Alsabagh Ali	Pacific Bell
	Al Sabaqi Tariq.244.4550	Pacific Bell
	Enriquez Amalia G	Pacific Bell
	Flores Moises	Pacific Bell
	Granata Wm F	Pacific Bell
	Martinez Soto Manuel	Pacific Bell
	Mendez Ricardo	Pacific Bell
1985	Boruski Steven	Pacific Bell
	Bradshaw M S	Pacific Bell
	Brown S	Pacific Bell
	Granata Wm F	Pacific Bell
	Faul R T	Pacific Bell
	Kramer Tim	Pacific Bell
1980	BRADSHAW M S	Pacific Telephone
	BROWN S	Pacific Telephone
	CONNER C	Pacific Telephone
	DEROSIER M	Pacific Telephone
	DRAIN JEAN	Pacific Telephone
	FAUL R T	Pacific Telephone
	GARCIA DAN	Pacific Telephone
	GRANATA WM F	Pacific Telephone
	KIM SOON SUP	Pacific Telephone
	TACHIN N	Pacific Telephone
1975	Bradshaw M S	Pacific Telephone
	Brown S	Pacific Telephone
	Cropper C W	Pacific Telephone
	Diaz Richard	Pacific Telephone
	Dodt P	Pacific Telephone
	Gordon Geo E	Pacific Telephone
	Granata Wm F	Pacific Telephone
	Kirbach K A	Pacific Telephone
	Watson Jackie	Pacific Telephone
1970	BROWN S	Pacific Telephone
	DAGENALS TED B	Pacific Telephone
	FARINAS ABELARDO MONTERO	Pacific Telephone
	FREEDMAN IRVING	Pacific Telephone
	GARCIA MARIO	Pacific Telephone
	GORDON GEO E	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	GRANATA WM F	Pacific Telephone
	BROWN S	Pacific Telephone
	DAGENALS TED B	Pacific Telephone
	FARINAS ABELARDO MONTERO	Pacific Telephone
	FREEDMAN IRVING	Pacific Telephone
	GARCIA MARIO	Pacific Telephone
	GORDON GEO E	Pacific Telephone
	GRANATA WM F	Pacific Telephone
	HOULBERG ERIC	Pacific Telephone
	INGHAM THOS D	Pacific Telephone
	MINKLEY	Pacific Telephone
	PALMER JUNGJA	Pacific Telephone
	SAWAYA E	Pacific Telephone
	SPENCER WM	Pacific Telephone
	HOULBERG ERIC	Pacific Telephone
	INGHAM THOS D	Pacific Telephone
	MINKLEY	Pacific Telephone
	PALMER JUNGJA	Pacific Telephone
	SAWAYA E	Pacific Telephone
	SPENCER WM	Pacific Telephone
1965	GUTLZAN EDH	Pacific Telephone
	GRANATA 0 M	Pacific Telephone
1962	BYRNE ROBT M	Pacific Telephone
	COZART JEAN	Pacific Telephone
	GALPER BURTON	Pacific Telephone
	GOLDENSON MARVIN	Pacific Telephone
	GRANATA WM F	Pacific Telephone
	LIVINGSTON JACK R	Pacific Telephone
	LOCATELL CHAS	Pacific Telephone
	MANN LOGAN	Pacific Telephone
	MCDERMOTT PATRICIA	Pacific Telephone
	OSWALD DONALD	Pacific Telephone
	PAINE ARTHUR	Pacific Telephone
	RABINOVITCH CARAL	Pacific Telephone
	RICHARDSON CAROLYN	Pacific Telephone
	RICHARDSON WAYNE E	Pacific Telephone
	WOLTERS SANDRA	Pacific Telephone

FINDINGS

6640 ETIWANDA AVE

Year	Uses	Source
2004	SMESTEMAKERJeffrey	Haines Company
1975	Seidenburg Donald G	Pacific Telephone
1970	SEIDENBURG DONALD G	Pacific Telephone
	SEIDENBURG DONALD G	Pacific Telephone
1965	DCOSTELLO JACK	Pacific Telephone
1962	BARKER JAS I	Pacific Telephone
1956	BARKER JAS I	Pacific Telephone

6641 ETIWANDA AVE

Year	Uses	Source
2004	APARTMENTS	Haines Company
	MONROY Rodrigo	Haines Company
	NOVENARIO Carlo	Haines Company
	RAMOS Adalberto	Haines Company
	ROCHAJorge L	Haines Company
	SINGSON Marlyn	Haines Company
1995	Alvarado Mario	Pacific Bell
	Henderson Martin	Pacific Bell
	Lopez Silvlano	Pacific Bell
	i Lopez Simon	Pacific Bell
	Ramirez R	Pacific Bell
	Rivas Manual	Pacific Bell
1991	Alcaraz Olivia M	Pacific Bell
	Alvarado Mario	Pacific Bell
	Henderson Martin & Donna	Pacific Bell
	Henderson Megan Sun	Pacific Bell
	Hemandez Maria Estella	Pacific Bell
	Martinez Rafael Antonio	Pacific Bell
	Martinez Rafael Ortiz	Pacific Bell
	Partida Jose Luis	Pacific Bell
	Partida L Tuj	Pacific Bell
	Vargas Ricardo	Pacific Bell
1985	Henderson Martin & Donna	Pacific Bell
	Henderson Marvin	Pacific Bell
	Henderson Michelle	Pacific Bell
	Henderson N S	Pacific Bell
	Villegas Juan	Pacific Bell
	Alcaraz Olivia M	Pacific Bell

FINDINGS

Year	Uses	Source
1985	Chavez Affonzo	Pacific Bell
	Del Aguila Ana	Pacific Bell
	Garcia Guillermo	Pacific Bell
	Lopez Isabel	Pacific Bell
	Lopez Israel	Pacific Bell
	Lopez J	Pacific Bell
	Lopez J	Pacific Bell
	Lopez J	Pacific Bell
	Lopez J	Pacific Bell
	Martinez Salvador	Pacific Bell
	Menjivar Guillermo	Pacific Bell
	Men ivar Isabel	Pacific Bell
	Morales Nicolas R	Pacific Bell
	Ordonec A	Pacific Bell
	Romero Ramon	Pacific Bell
1980	HELSTIEN BETH	Pacific Telephone
	HENDERSON MARTIN	Pacific Telephone
	LOVELACE B	Pacific Telephone
	NUNEZ ROGELIO	Pacific Telephone
	ROBLES FRANCISCO ESTRADA	Pacific Telephone
	SALDARRIEGA JULIO	Pacific Telephone
	SERANO ANTONIA	Pacific Telephone
	ALCARAZ OLIVIA M	Pacific Telephone
	CHAVEZ AHFONZO	Pacific Telephone
	GALVAN MAURO	Pacific Telephone
	GARCIA GUILLERMO	Pacific Telephone
1975	Alvarez Irene Saldana	Pacific Telephone
	Fernandez Abner	Pacific Telephone
	Fiola T M	Pacific Telephone
	Gonzalez Pascual	Pacific Telephone
	Grimes Craig L	Pacific Telephone
	Helstien Donna	Pacific Telephone
	Hickman David W	Pacific Telephone
	Koller Kathy G	Pacific Telephone
	Matson David	Pacific Telephone
	Murrell Wm T	Pacific Telephone
	Pippin Herman	Pacific Telephone
	Rios Edgar	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Taylor Brian	Pacific Telephone
1970	BARRETT IDABEL M	Pacific Telephone
	GUINN TERRY R	Pacific Telephone
	GUTOWSKI VINCENT P	Pacific Telephone
	HEISE E I	Pacific Telephone
	HELSTIEN DONNA MRS	Pacific Telephone
	MCKENZIE ALLEN R	Pacific Telephone
	OSTROW EDITH	Pacific Telephone
	SHAW P A	Pacific Telephone
	VAN SICKLE J	Pacific Telephone
	BARRETT IDABEL M	Pacific Telephone
	GUINN TERRY R	Pacific Telephone
	GUTOWSKI VINCENT P	Pacific Telephone
	HEISE E I	Pacific Telephone
	HELSTIEN DONNA MRS	Pacific Telephone
	MCKENZIE ALLEN R	Pacific Telephone
	OSTROW EDITH	Pacific Telephone
	SHAW P A	Pacific Telephone
	VAN SICKLE J	Pacific Telephone
1965	ELLINGSON WILCOR	Pacific Telephone
	DOEMPSTER HARRY	Pacific Telephone
	HELSTIEN DON	Pacific Telephone
	JANCICH GARY	Pacific Telephone
1956	HART ALBION W	Pacific Telephone

6645 ETIWANDA AVE

Year	Uses	Source
2004	APARTMENTS	Haines Company
	GONZALEZB enho	Haines Company
	GONZALEZElena L	Haines Company
	PINEDA Salvador E	Haines Company
	A RAMIREZ Maria	Haines Company
	RIVAS Keila a	Haines Company
	RODRIGUEZ Maria M	Haines Company
	VEGACarlos	Haines Company
1995	Hernandez Gertrudis M	Pacific Bell
1991	Alberto Sandra	Pacific Bell
	Grossman Milton	Pacific Bell
	Grossman Minnie	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Ortegaoose Luis	Pacific Bell
	Quevedo Carlos	Pacific Bell
	Venegas Elias	Pacific Bell
1985	Banda R	Pacific Bell
	Gomes Robt	Pacific Bell
	Guzman Gonzalo	Pacific Bell
	Small Wm T	Pacific Bell
1980	PACHECO ESTELA RESEDA	Pacific Telephone
	BLOCK SCORTT L	Pacific Telephone
	BROWN HARRY	Pacific Telephone
	BRUCE J	Pacific Telephone
	DE BLANCO M	Pacific Telephone
	DOWLING B	Pacific Telephone
	FORDE M	Pacific Telephone
	HORNER LUCILE	Pacific Telephone
	MOELLER PAUL W	Pacific Telephone
	SCHAFER ZELLA	Pacific Telephone
	STEWART TANYA	Pacific Telephone
1975	Castro Florentino	Pacific Telephone
	Crandall C	Pacific Telephone
	Levy Wm W	Pacific Telephone
	Robles L	Pacific Telephone
	Ruderman E	Pacific Telephone
	Saldiber Raul	Pacific Telephone
	Sorkin Gwen	Pacific Telephone
	Vasquez Guillermo Zuniga	Pacific Telephone
1970	ARNOLD SUSAN	Pacific Telephone
	BARKER LORREN L	Pacific Telephone
	CASTRO GEO H	Pacific Telephone
	CHIU JACK C	Pacific Telephone
	GARCIA JAS A	Pacific Telephone
	HEATH DAPHNE MRS	Pacific Telephone
	LEVY WM W	Pacific Telephone
	MORIMANDO BLAIZE	Pacific Telephone
	SCHREIBER M	Pacific Telephone
	TOMMINELLO DANNY	Pacific Telephone
	ARNOLD SUSAN	Pacific Telephone
	BARKER LORREN L	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	CASTRO GEO H	Pacific Telephone
	CHIU JACK C	Pacific Telephone
	GARCIA JAS A	Pacific Telephone
	HEATH DAPHNE MRS	Pacific Telephone
	LEVY WM W	Pacific Telephone
	MORIMANDO BLAIZE	Pacific Telephone
	SCHREIBER M	Pacific Telephone
	TOMMINELLO DANNY	Pacific Telephone
1962	SCROGHAM ALBERT A	Pacific Telephone
1956	SCROGHAM ALBERT A	Pacific Telephone

6646 ETIWANDA AVE

Year	Uses	Source
2004	no info	Haines Company
1985	Grieve Brad & Marilyn	Pacific Bell
	Grieve Drywall Construction	Pacific Bell
	Grieve L Sep	Pacific Bell
	Grieve Lesli	Pacific Bell
1975	Tompkins Thos E	Pacific Telephone
1970	REICHARD DIXIE	Pacific Telephone
	REICHARD DALE	Pacific Telephone
	REICHARD DIXIE	Pacific Telephone
	REICHARD DALE	Pacific Telephone
1965	SMITH ERNE ST	Pacific Telephone
1962	SMITH ERNEST MRS	Pacific Telephone
1956	SMITH ERNEST	Pacific Telephone

6651 ETIWANDA AVE

Year	Uses	Source
2004	RUIZJos	Haines Company
	APARTMENTS	Haines Company
	AGUIRREAna	Haines Company
	AGUIRREElvia	Haines Company
	LOPEZ Linda	Haines Company
	PEREZMiguel Angel	Haines Company
1995	Ardon Hector F	Pacific Bell
	Bronakowski Mieczyslaw	Pacific Bell
	Ruiz Jos	Pacific Bell
1991	Lokar Guy	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Lokay J	Pacific Bell
	Loke E	Pacific Bell
	Lokey O Kit	Pacific Bell
	Mercado Rudy	Pacific Bell
	Mercado S PCty	Pacific Bell
	Mercado S R	Pacific Bell
	Mercado Salvador	Pacific Bell
	Mokh Siya	Pacific Bell
	Ross Robb	Pacific Bell
	Ruin Jos	Pacific Bell
1985	Garcia Dan I	Pacific Bell
	Maimone Chris	Pacific Bell
1980	J R STEEL RESEDA	Pacific Telephone
	SMITH SANDRA A RESEDA	Pacific Telephone
	YI KUNYONG RESEDA	Pacific Telephone
	BELTRAN OSCAR R RESEDA	Pacific Telephone
	BAILEY PHILIP	Pacific Telephone
	BARBERA J E	Pacific Telephone
	DARST CHAS F	Pacific Telephone
	EARLE GARTH	Pacific Telephone
	HAAKE RONALD W	Pacific Telephone
	HARRINGTON WALTER	Pacific Telephone
	HAUGEN JEFF	Pacific Telephone
	OSSAI JOS	Pacific Telephone
	SAGHBINI CHAS G	Pacific Telephone
	THOMAS KAREN L	Pacific Telephone

6652 ETIWANDA AVE

Year	Uses	Source
2004	CARDENASNarcedalla	Haines Company
1995	Staples John	Pacific Bell
	Staples John	Pacific Bell
1991	Staples Marvin A	Pacific Bell
	Staples John	Pacific Bell
1985	Lindeman D	Pacific Bell
1980	DONAHUE WALTER L	Pacific Telephone
1965	PATTERSON EDW	Pacific Telephone
1962	PATTERSON EDW S	Pacific Telephone
1956	PATTERSON EDW	Pacific Telephone

FINDINGS

6655 ETIWANDA AVE

Year	*Uses*	*Source*
2004	APARTMENTS	Haines Company
	BUITRON Benito	Haines Company
	CAMARENA Maria G	Haines Company
	CAMARENA Maria G	Haines Company
	CARDENAS Rafael	Haines Company
	CHAVARRIA Dora Elsa	Haines Company
	GABRIELACoronado	Haines Company
	GARCIAJosefina	Haines Company
	GUTIERREZCRUZ Maria	Haines Company
	REYES Torres Jaime	Haines Company
	RUBIOSandra L	Haines Company
	SALVADOR Gilberto	Haines Company
1995	Campos Angel	Pacific Bell
	Cardosa Juan A	Pacific Bell
	Cardoza Paula	Pacific Bell
	Gonzalez Maria Petrona	Pacific Bell
	Pineda Maria Teresa	Pacific Bell
1991	Barrios Adolfo	Pacific Bell
	Dubrin Ted	Pacific Bell
	Figueroa Candida	Pacific Bell
	Flores Consuelo	Pacific Bell
	Rosas Ayala Jose Luis	Pacific Bell
	Rosasco John	Pacific Bell
1985	Baill Harry	Pacific Bell
	Bubrin Ted	Pacific Bell
	Bucalo Christopher	Pacific Bell
	Devoucoux Marc	Pacific Bell
	Stasiefski Bernard J	Pacific Bell
	Wolsic Bl K	Pacific Bell
1980	CLARKE N M	Pacific Telephone
	HOWARD ROBT S	Pacific Telephone
	HURTIG ERIC	Pacific Telephone
	MARKEY LEE	Pacific Telephone
	NENZEL F	Pacific Telephone
	STASIEFSKI BERNARD J	Pacific Telephone
	WELLS M G	Pacific Telephone
	WOLSIC B K	Pacific Telephone

FINDINGS

Year	Uses	Source
1975	Clarke N M	Pacific Telephone
	Glover G V	Pacific Telephone
	Howard Robt S	Pacific Telephone
	Hurtig Eric	Pacific Telephone
	Michael Chas R	Pacific Telephone
	Romsa Jerry	Pacific Telephone
	Stasiefski Bernard J	Pacific Telephone
	Wells M G	Pacific Telephone
	Wolsic Bl K	Pacific Telephone
	Mc Guire A E	GTE
1970	REES GARY W	Pacific Telephone
	ROMSA JERRY	Pacific Telephone
	SANTARELLI FRANCIS O	Pacific Telephone
	ARLT HELMUT	Pacific Telephone
	BRAUNSTEIN ROSE R	Pacific Telephone
	ARLT HELMUT	Pacific Telephone
	BRAUNSTEIN ROSE R	Pacific Telephone
	ELLIOTT LAWRENCE	Pacific Telephone
	HURTIG ERIC	Pacific Telephone
	PARTIS EDW A	Pacific Telephone
	REES GARY W	Pacific Telephone
	ROMSA JERRY	Pacific Telephone
	SANTARELLI FRANCIS O	Pacific Telephone
	ELLIOTT LAWRENCE	Pacific Telephone
	HURTIG ERIC	Pacific Telephone
	PARTIS EDW A	Pacific Telephone
1965	CUSICK DANL	Pacific Telephone
	HORENTI1 DOROTHY	Pacific Telephone
	MYERS WH	Pacific Telephone
1962	DONALSON BEN	Pacific Telephone
1956	DONALSON BEN	Pacific Telephone

6656 ETIWANDA AVE

Year	Uses	Source
2004	SBAVIERARose	Haines Company
1985	Baviera Chas	Pacific Bell
1980	BAVIERA CHAS	Pacific Telephone
1975	Baviera Chas	Pacific Telephone
1970	BAVIERA CHAS	Pacific Telephone

Year	Uses	Source
1970	BAVIERA CHAS	Pacific Telephone
1965	BAVIERA C	Pacific Telephone
1962	BAVIERA CHAS	Pacific Telephone
1956	BAVIERA CHAS R	Pacific Telephone

6658 ETIWANDA AVE

Year	Uses	Source
1975	Price Walter S	GTE

6681 ETIWANDA AVE

Year	Uses	Source
1975	Perdew L E	GTE

KITTRIDGE ST

18143 KITTRIDGE ST

Year	Uses	Source
2004	BELTRAN Martin	Haines Company
1970	DYKES CHAS S	Pacific Telephone
	DYKES CHAS S	Pacific Telephone
1965	DOYKES C	Pacific Telephone
1962	DYKES CHAS S	Pacific Telephone
1956	DYKES CHAS S R	Pacific Telephone

18149 KITTRIDGE ST

Year	Uses	Source
2004	9 RUIZEmesto	Haines Company
1980	VAN OSDOL WILL	Pacific Telephone
1975	Conroy Brian F	Pacific Telephone
1970	INGLEHART RONALD	Pacific Telephone
	INGLEHART RONALD	Pacific Telephone
1965	JONES A	Pacific Telephone
1962	JONES ALLYN C RESEDA	Pacific Telephone
1956	JONES ALLYN C R	Pacific Telephone

18153 KITTRIDGE ST

Year	Uses	Source
2004	OGONZALEZAlfredo	Haines Company
1965	ASHE EVELYN	Pacific Telephone
1962	ASHER A L	Pacific Telephone

FINDINGS

Year	Uses	Source
1956	ASHER A L	Pacific Telephone

18159 KITTRIDGE ST

Year	Uses	Source
2004	GARCIAJose	Haines Company
	SUAREZJose	Haines Company
1995	Tannahill Jas	Pacific Bell
1991	Tannahill Jas	Pacific Bell
1985	Cushing Doran	Pacific Bell
	Tannahill Jas	Pacific Bell
1980	CUSHING DORAN	Pacific Telephone
	TANNAHILL JAS	Pacific Telephone
1975	Welch F L	Pacific Telephone
	Hegardt Ludwig	Pacific Telephone
1970	HEGARDT LUDWIG	Pacific Telephone
	FARNALD M E	Pacific Telephone
	HEGARDT LUDWIG	Pacific Telephone
	FARNALD M E	Pacific Telephone
1965	HEBAROT MARY LOU	Pacific Telephone
1962	HEGARDT MARY LOU	Pacific Telephone
1956	HEGARDT BRUCE MRS R	Pacific Telephone

18165 KITTRIDGE ST

Year	Uses	Source
2004	HAYNES Calvin	Haines Company
1980	DALEY HAROLD J	Pacific Telephone
1975	Daley Harold J	Pacific Telephone
1970	DALEY HAROLD J	Pacific Telephone
	DALEY HAROLD J	Pacific Telephone
1965	DALEY H J	Pacific Telephone
1962	DALEY HAROLD J	Pacific Telephone
1956	DALEY HAROLD J	Pacific Telephone

Kittridge St

18169 Kittridge St

Year	Uses	Source
2014	YOUR FAVORITE CONTRACTOR INC	EDR Digital Archive
2010	UNITED BUILDERS OF L A	EDR Digital Archive

FINDINGS

KITTRIDGE ST

18169 KITTRIDGE ST

Year	Uses	Source
2004	WALMERLynn	Haines Company
1970	MATSU VIRGINIA	Pacific Telephone
	MATSU VIRGINIA	Pacific Telephone
1956	BREEN JAS J	Pacific Telephone

18303 KITTRIDGE ST

Year	Uses	Source
2004	APARTMENTS	Haines Company
	CACERESMiguel Angel	Haines Company
	CARDOZA Christian H	Haines Company
	CARRANZA Gabriel	Haines Company
	DELeon Rafael A	Haines Company
	DOMINGUEZ Elvira	Haines Company
	ESCOBARJose Allredo	Haines Company
	HEDAYAT Karimah	Haines Company
	JUAN Antonio Cardoza	Haines Company
	KAUFMAN Howard	Haines Company
	LEWIS Mark	Haines Company
	NUNEZAnae Elsy	Haines Company
	POURMORAGILANI	Haines Company
	Sarbar	Haines Company
	SHANNON Jeanene	Haines Company
	SIFUENTES Alber	Haines Company
	TORRESJoselyn Irene	Haines Company
	WILEY Eddie	Haines Company
1991	Braverman Nathan	Pacific Bell
	Braverman Randy & Karen	Pacific Bell
	Braverman S	Pacific Bell
	Braverman S PCty	Pacific Bell
	Bullo Decano	Pacific Bell
	Bulloch Doris E Lk Vw Ter	Pacific Bell
	Chete Eduardo	Pacific Bell
	Merida Alva	Pacific Bell
	Migdol Doris M	Pacific Bell
	Migdol L	Pacific Bell
	Migel Richard MD	Pacific Bell

FINDINGS

Year	*Uses*	*Source*
1991	Migenes E	Pacific Bell
	Sisso Yair	Pacific Bell
	Sisson D	Pacific Bell
	Skahll Melisa	Pacific Bell
	Skaien Donald W	Pacific Bell
	Turko Bl	Pacific Bell
	Waheed Iqbal	Pacific Bell
	Watanabe A C	Pacific Bell
1985	Aboulafia S Bl	Pacific Bell
	Balalian Steve	Pacific Bell
	Borrelli Kevin	Pacific Bell
	Borrelli Marie L	Pacific Bell
	Braverman Nathan	Pacific Bell
	Dennis Rick	Pacific Bell
	Edelman Sam	Pacific Bell
	Mehrvarzi Mehrdokht	Pacific Bell
	Mooradian Minas	Pacific Bell
	Nagy Jos T	Pacific Bell
	Nakahara David I	Pacific Bell
	Stalboerger L A	Pacific Bell
	Tweddell Wayne	Pacific Bell
	Twedt Alan J	Pacific Bell
	Usui Shoichi	Pacific Bell
	Usvaltas Geo	Pacific Bell
	Wormald K	Pacific Bell
1980	DENNIS RICK	Pacific Telephone
	DI DOMENICO FLORE	Pacific Telephone
	DONNELLY B	Pacific Telephone
	GILFIX BARNEY	Pacific Telephone
	HALTER C LYNNETTE	Pacific Telephone
	HANDELSMAN JAY H	Pacific Telephone
	HEROLD LYLE	Pacific Telephone
	HINTZ THOS	Pacific Telephone
	KEDZIERSKI A	Pacific Telephone
	KEELING DAWN	Pacific Telephone
	LEVITCH J	Pacific Telephone
	REYNOSO RUBEN	Pacific Telephone
	ROWLAND DIANE	Pacific Telephone

FINDINGS

Year	*Uses*	*Source*
1980	USUISHOICHI	Pacific Telephone
	WIEMERS R	Pacific Telephone
	WORMALD K	Pacific Telephone
	ABOULAFIA ALLAN J	Pacific Telephone
	ABOULAFIA S B	Pacific Telephone
	BARRETT STEVE	Pacific Telephone
	BONSER EDW D	Pacific Telephone
	COLLINS L	Pacific Telephone
	SHILI CYNTHIA	Pacific Telephone
	TOOHEY PATRICK	Pacific Telephone
	TUNMAR VERA B	Pacific Telephone
	TURKO B	Pacific Telephone
	TWEDDELL WAYNE	Pacific Telephone
1975	Ackerfield R	Pacific Telephone
	Barr Lorrie	Pacific Telephone
	Benefiel Don	Pacific Telephone
	Bennett D H	Pacific Telephone
	Brown F G	Pacific Telephone
	Calvert B	Pacific Telephone
	Calvert K N	Pacific Telephone
	Caylor Richard S	Pacific Telephone
	Duchowny Irv A	Pacific Telephone
	Estrada Paulino M	Pacific Telephone
	Fitch Jack L	Pacific Telephone
	Fitch Ted	Pacific Telephone
	Graham Don	Pacific Telephone
	Guethlein Alice C	Pacific Telephone
	Handelsman Jay H	Pacific Telephone
	Herget D L	Pacific Telephone
	Kedzierski A	Pacific Telephone
	Mitchell T	Pacific Telephone
	Patterson M	Pacific Telephone
	Pond D J	Pacific Telephone
	Rudman Phil	Pacific Telephone
	Schulte Elliot	Pacific Telephone
	Williams Jos H	Pacific Telephone
1970	ADATTO JACK I	Pacific Telephone
	ALLEN THEODORE	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	CROYMANS MELVIN M	Pacific Telephone
	EMSELLEM M	Pacific Telephone
	FREIMANN ANTHONY	Pacific Telephone
	FREIMANN ANTHONY J	Pacific Telephone
	GUETHLEIN ALICE C	Pacific Telephone
	HUGILL JOS	Pacific Telephone
	JAMISON SAML	Pacific Telephone
	KEDZIERSKI A	Pacific Telephone
	KELLY JIM	Pacific Telephone
	KENNEDY HELEN E	Pacific Telephone
	MURRAY ALAN	Pacific Telephone
	NOYER RAYE	Pacific Telephone
	STAMP HOWARD J	Pacific Telephone
	SWEHOSKY SID R	Pacific Telephone
	MAZAREI ADNAN RESEDA	Pacific Telephone
	MAZAREI FERY RESEDA	Pacific Telephone
	MAZAREI HOSS RESEDA	Pacific Telephone
	MAZAREI ADNAN RESEDA	Pacific Telephone
	MAZAREI FERY RESEDA	Pacific Telephone
	MAZAREI HOSS RESEDA	Pacific Telephone
	ADATTO JACK I	Pacific Telephone
	ALLEN THEODORE	Pacific Telephone
	CROYMANS MELVIN M	Pacific Telephone
	EMSELLEM M	Pacific Telephone
	FREIMANN ANTHONY	Pacific Telephone
	FREIMANN ANTHONY J	Pacific Telephone
	GUETHLEIN ALICE C	Pacific Telephone
	HUGILL JOS	Pacific Telephone
	JAMISON SAML	Pacific Telephone
	KEDZIERSKI A	Pacific Telephone
	KELLY JIM	Pacific Telephone
	KENNEDY HELEN E	Pacific Telephone
	MURRAY ALAN	Pacific Telephone
	NOYER RAYE	Pacific Telephone
	STAMP HOWARD J	Pacific Telephone
	SWEHOSKY SID R	Pacific Telephone
	TAYLOR WM J	Pacific Telephone
	TROUTT ROBT	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	URSIN JAS VICTOR JR	Pacific Telephone
	WINDHAUSER MARGARET	Pacific Telephone
	TAYLOR WM J	Pacific Telephone
	TROUTT ROBT	Pacific Telephone
	URSIN JAS VICTOR JR	Pacific Telephone
	WINDHAUSER MARGARET	Pacific Telephone
1965	CLEVELAND HANK	Pacific Telephone
	SCHARKOPF	Pacific Telephone
	PASTER ROBT	Pacific Telephone
	GREENAMYER LOIS	Pacific Telephone
	ALLEN 0 C	Pacific Telephone
	MOORHOLSE J	Pacific Telephone
	HARTERT	Pacific Telephone
	KENNEDY HE	Pacific Telephone
	HUBER H C	Pacific Telephone
	PEAK M	Pacific Telephone

18308 KITTRIDGE ST

Year	Uses	Source
1965	MC CHESNEY DWIGHT	Pacific Telephone

18317 KITTRIDGE ST

Year	Uses	Source
2004	APARTMENTS	Haines Company
	ALFARO Luis E	Haines Company
	CASTILLO H Baslllo	Haines Company
	CERPA Vemnica	Haines Company
	GARCIAJose Luis	Haines Company
	HERNANDEZSylvia M	Haines Company
	JIMINEZFemando	Haines Company
	LANDINRaya Jose S	Haines Company
	MARROQUIN Clementina	Haines Company
	MORRIS Mabel	Haines Company
	ORTIZ Edgar	Haines Company
	PEREZ Imelda M	Haines Company
	PEREZRaul 6D	Haines Company
	PEREZRogello Eugenlo	Haines Company
	PONCE Martin Carrillo	Haines Company
	RESENDIZ Bealriz	Haines Company

FINDINGS

Year	Uses	Source
2004	RODRIGUEZRomelia	Haines Company
	RUIZ Maria	Haines Company
	VALENZUELA Glenda	Haines Company
1995	Brown Cliff	Pacific Bell
	Palacios Rosa	Pacific Bell
	Thomas Paula E	Pacific Bell
1991	Aragon Otto Rene	Pacific Bell
	Brown Cliff	Pacific Bell
	Brown Clifford	Pacific Bell
	Colio Inocencio	Pacific Bell
	Gangas Sandra	Pacific Bell
	Ganger E B	Pacific Bell
	Landeros Fernando	Pacific Bell
	Land ers Fiserr J	Pacific Bell
	Leopardo Marianne	Pacific Bell
	Retix Adrian	Pacific Bell
	Tellez Dora Leticia	Pacific Bell
	Thomas Paula E	Pacific Bell
1985	Brown Cliff	Pacific Bell
	Brown Clifford	Pacific Bell
	Clark H R	Pacific Bell
	Croasdale G S	Pacific Bell
	Croasdale R T Pac	Pacific Bell
	Crocco Debra	Pacific Bell
	Gornick Louis	Pacific Bell
	Gornicki Dalik	Pacific Bell
	Gornicki Ruth	Pacific Bell
	Kotter L	Pacific Bell
	Peluso Sandy	Pacific Bell
	Romanowsky Arkady	Pacific Bell
	Romans Beauty Salons	Pacific Bell
	Sims K	Pacific Bell
	Thomas Paula E	Pacific Bell
	Thurman Jos	Pacific Bell
	Weir L W	Pacific Bell
1980	CROASDALE EMMETT J	Pacific Telephone
	DEMIRJIAN J N	Pacific Telephone
	ELLSWORTH B R	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	HENDERSON PEGGY SUE	Pacific Telephone
	JOHNSON M E	Pacific Telephone
	HOMSY NASSER RESEDA	Pacific Telephone
	SIMS K	Pacific Telephone
	STEC JOS	Pacific Telephone
	STRICKLER NAT	Pacific Telephone
	TALAMANTEZ D	Pacific Telephone
	THOMAS PAULA O	Pacific Telephone
	THURMAN JOS	Pacific Telephone
	VALLENTINY CHUCK	Pacific Telephone
	WARNER LARRY C	Pacific Telephone
	WU YUNG CHUN	Pacific Telephone
1975	Clairmont Douglas	Pacific Telephone
	Gilinsky Blossom	Pacific Telephone
	Griffiths Jeannette	Pacific Telephone
	Griffiths Jo Ann	Pacific Telephone
	Homsy Nasser	Pacific Telephone
	Keller E A	Pacific Telephone
	Mesnick Abraham	Pacific Telephone
	Russmann Robt	Pacific Telephone
	Schultz Rodney D	Pacific Telephone
	Sipzener R	Pacific Telephone
	Stec Jos	Pacific Telephone
	Strickler Nat	Pacific Telephone
	Thomas Paula E	Pacific Telephone
	Wolfe Cynthia	Pacific Telephone
	Yagman P	Pacific Telephone
1970	BERNSTEIN HARRY H	Pacific Telephone
	GARRETT CLINTON L	Pacific Telephone
	GREGG RICHARD A	Pacific Telephone
	GRIFFITHS ARTHUR D	Pacific Telephone
	JENNINGS ALLEN F	Pacific Telephone
	JOHNSON D	Pacific Telephone
	MANCUSO JOS	Pacific Telephone
	MILLER DONALD E	Pacific Telephone
	NEUSBAUM PAUL	Pacific Telephone
	OLGIN ELVA	Pacific Telephone
	ROSENBLUM LENA	Pacific Telephone

FINDINGS

Year	*Uses*	*Source*
1970	SIPZENER R	Pacific Telephone
	THOMAS PAULA E	Pacific Telephone
	WEINSTEIN BEN	Pacific Telephone
	BERNSTEIN HARRY H	Pacific Telephone
	GARRETT CLINTON L	Pacific Telephone
	GREGG RICHARD A	Pacific Telephone
	GRIFFITHS ARTHUR D	Pacific Telephone
	JENNINGS ALLEN F	Pacific Telephone
	JOHNSON D	Pacific Telephone
	MANCUSO JOS	Pacific Telephone
	MILLER DONALD E	Pacific Telephone
	NEUSBAUM PAUL	Pacific Telephone
	OLGIN ELVA	Pacific Telephone
	ROSENBLUM LENA	Pacific Telephone
	SIPZENER R	Pacific Telephone
	THOMAS PAULA E	Pacific Telephone
	WEINSTEIN BEN	Pacific Telephone
1965	GRIFFITH A	Pacific Telephone
	FILO F H	Pacific Telephone
	MESERVE RUST H	Pacific Telephone
	SIKIE MICHAEL	Pacific Telephone
	DUNCAN	Pacific Telephone
	MILTON J	Pacific Telephone
	SPORNY RICHARD	Pacific Telephone
	WELLS GERALO	Pacific Telephone
	SELIG GEO	Pacific Telephone
	MILLER IOA10	Pacific Telephone
	EISENBER5 DENNIS	Pacific Telephone
	KAHN SARAH	Pacific Telephone
	JACKSON SARAH	Pacific Telephone
	HUDOGKNS WALTER	Pacific Telephone
	CONVILLE	Pacific Telephone
	SHERWOOD H W	Pacific Telephone
1962	ALLEN ALLEN D	Pacific Telephone
	BAKER GENE F	Pacific Telephone
	BLOCK LEWIS J	Pacific Telephone
	BOUSEMAN CAROL	Pacific Telephone
	BOUSEMAN CONNIE	Pacific Telephone

FINDINGS

Year	*Uses*	*Source*
1962	BOUSEMAN LOIS	Pacific Telephone
	BOXER STEWE	Pacific Telephone
	CALCARA PIETRO	Pacific Telephone
	COHEN MILTON E	Pacific Telephone
	CONVILLE ED	Pacific Telephone
	DE ARYAN DAVID L	Pacific Telephone
	DEBS C O	Pacific Telephone
	DRAKE B M	Pacific Telephone
	DRUMMOND FRED C	Pacific Telephone
	EISENHERG DENNIS	Pacific Telephone
	FENNELL MIKE	Pacific Telephone
	GARMAN NEIL	Pacific Telephone
	GOLDFARB FERDINAND N	Pacific Telephone
	GORDEN DAYLE	Pacific Telephone
	GREEN L W	Pacific Telephone
	KAHN SARAH MRS	Pacific Telephone
	KALTSKY MARK W	Pacific Telephone
	KOERNER CHAS W	Pacific Telephone
	LEE ROBT	Pacific Telephone
	ORCHARD THOS A	Pacific Telephone
	OREN JOHN A	Pacific Telephone
	PHILLIPS DEWEY L	Pacific Telephone
	PHILLIPS FRANCES	Pacific Telephone
	SELIG GEO	Pacific Telephone
	SIMMONS FRANCINE	Pacific Telephone
	SIMMONS JERRY	Pacific Telephone
	SIMPSON HOWARD	Pacific Telephone
	STALLINGS JARED	Pacific Telephone
	TAYLOR JOHN L	Pacific Telephone
	TAYLOR MARY R	Pacific Telephone
	THOMPSON LUCILLE	Pacific Telephone
	WALSH PATRICK F	Pacific Telephone
	WAXMAN CHAS E	Pacific Telephone
	WEITZMAN SAM	Pacific Telephone
	WEITZMAN SAM	Pacific Telephone
1956	BELKNAP VERNON	Pacific Telephone
1950	MORRIS DANL R R	Pacific Telephone
	MORRIS DANL R R	Pacific Telephone

FINDINGS

18331 KITTRIDGE ST

Year	*Uses*	*Source*
2004	APARTMENTS	Haines Company
	ARRIAZA Ramlrez Byron	Haines Company
	BATRES Antonio	Haines Company
	CARRILLO Filimon	Haines Company
	CRUZ Re Ins	Haines Company
	GOMEZRudi	Haines Company
	HIRSCHLos	Haines Company
	MUNGUIA Fortino	Haines Company
	ORELLANAAna C	Haines Company
	PEREZEduardo	Haines Company
	RAMIREZ Maria	Haines Company
	UMANAJose	Haines Company
1995	Chades Claudia	Pacific Bell
1991	Hedrick Scott	Pacific Bell
	Hedrick Wm KJr	Pacific Bell
	Peck Doyle	Pacific Bell
	Peck Duane	Pacific Bell
	Peck E	Pacific Bell
	Peck E Blundell Uk Vw Ter	Pacific Bell
	Speer Thomas C	Pacific Bell
	Speer Veronica	Pacific Bell
	Speer Wm R POBox 244 W OOs	Pacific Bell
1985	Noel Bl	Pacific Bell
	Clow Charles H	Pacific Bell
	Frownielter Jerry	Pacific Bell
	Hornbostel Carol	Pacific Bell
	Hornbrook Chas	Pacific Bell
	Powell Corey	Pacific Bell
	Schleicher F	Pacific Bell
1980	WISCHER B	Pacific Telephone
	WOLPA VICKI	Pacific Telephone
	ZEMETRA JOHN G	Pacific Telephone
	COSTA JAY D	Pacific Telephone
	GALL ROBT D	Pacific Telephone
	GOEBEL DAVID	Pacific Telephone
	JIMENEZ H M	Pacific Telephone
	LEWIS JANET	Pacific Telephone

FINDINGS

Year	Uses	Source
1980	MAGGIO J J	Pacific Telephone
	MCCANN CHAS C MRS	Pacific Telephone
	PEARSON A	Pacific Telephone
	PERCY OSCAR L	Pacific Telephone
	SCHWARTZ RONALD	Pacific Telephone
	TOOMEY DONALD B	Pacific Telephone
	COOPER MORRIS RESEDA	Pacific Telephone
	A JANITORIAL MAINTENANCE	Pacific Telephone
	BALLANTYNE HERBERT	Pacific Telephone
	BRADLEY A J	Pacific Telephone
	BUNDY ROBT JR	Pacific Telephone
	CAHILL DANA EDW	Pacific Telephone
	CHANG MICHAEL	Pacific Telephone
	CHAPMAN C	Pacific Telephone
	CHWASTER RAYMOND	Pacific Telephone
	CIRCO GARY	Pacific Telephone
1975	Benveniste Dorothy Mrs	Pacific Telephone
	Bradley A J	Pacific Telephone
	Chang Yong Chun	Pacific Telephone
	Cooper Morris	Pacific Telephone
	Cullen Frederick Thos IV	Pacific Telephone
	Fichtner C	Pacific Telephone
	Gonzalez Ignacio N	Pacific Telephone
	Holland Glow	Pacific Telephone
	Howard Joan	Pacific Telephone
	Jojola Gregory	Pacific Telephone
	Kelley M M	Pacific Telephone
	Larson Donna	Pacific Telephone
	Lederman R	Pacific Telephone
	Mc Cann Chas C Mrs	Pacific Telephone
	Peake Roger	Pacific Telephone
	Rose Winfred L	Pacific Telephone
	Sanders Robt M Jr	Pacific Telephone
	Schechtersohn Joan	Pacific Telephone
	Schwartz Ronald	Pacific Telephone
	Shube Bretta Mrs	Pacific Telephone
	Volz Robt C	Pacific Telephone
	Winslow Floyd	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	MELVIN CHAS	Pacific Telephone
	RIDDLE EMMA	Pacific Telephone
	SAMUELS GEO	Pacific Telephone
	SERON DOUGLAS	Pacific Telephone
	SHUBE BRETTA MRS	Pacific Telephone
	SMITH JENS	Pacific Telephone
	STERN M	Pacific Telephone
	VOLCHOK ESTHER	Pacific Telephone
	VOLZ ROBT C	Pacific Telephone
	WALLACE MICHELE A	Pacific Telephone
	WOLFF DAVID L	Pacific Telephone
	ALLSHOUSE ROBERTA	Pacific Telephone
	BUCKLEY GERALD F	Pacific Telephone
	CADY GORDON JR	Pacific Telephone
	CARMAN GREGORY P	Pacific Telephone
	CASH THOS A	Pacific Telephone
	DIMAND J	Pacific Telephone
	GARFIELD DOUGLAS	Pacific Telephone
	GROSS ROSE	Pacific Telephone
	KATER KAREN	Pacific Telephone
	KATER KATHY	Pacific Telephone
	KORNE RICHARD	Pacific Telephone
	LAHR W VERNE	Pacific Telephone
	LUNDSTRUM ROGER	Pacific Telephone
	MELVIN CHAS	Pacific Telephone
	RIDDLE EMMA	Pacific Telephone
	SAMUELS GEO	Pacific Telephone
	SERON DOUGLAS	Pacific Telephone
	SHUBE BRETTA MRS	Pacific Telephone
	SMITH JENS	Pacific Telephone
	STERN M	Pacific Telephone
	VOLCHOK ESTHER	Pacific Telephone
	VOLZ ROBT C	Pacific Telephone
	WALLACE MICHELE A	Pacific Telephone
	WOLFF DAVID L	Pacific Telephone
	ALLSHOUSE ROBERTA	Pacific Telephone
	BUCKLEY GERALD F	Pacific Telephone
	CADY GORDON JR	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	CARMAN GREGORY P	Pacific Telephone
	CASH THOS A	Pacific Telephone
	DIMAND J	Pacific Telephone
	GARFIELD DOUGLAS	Pacific Telephone
	GROSS ROSE	Pacific Telephone
	KATER KAREN	Pacific Telephone
	KATER KATHY	Pacific Telephone
	KORNE RICHARD	Pacific Telephone
	LAHR W VERNE	Pacific Telephone
	LUNDSTRUM ROGER	Pacific Telephone
1965	STUTMAN EOW	Pacific Telephone
	SMITH JENS	Pacific Telephone
	LIEBERMAN DAVID	Pacific Telephone
	KAVLI FRTD	Pacific Telephone
	HORNE GEO	Pacific Telephone
	HUFFMAN	Pacific Telephone
	CL&RKE CHAS	Pacific Telephone
	ANTONSON JOHN	Pacific Telephone
	HENKER DOROTHY	Pacific Telephone
1962	BLAND F H	Pacific Telephone
	HIRSCH ROBT DEVELOPMENT CO	Pacific Telephone
	RAMBO I N	Pacific Telephone
	STUTMAN EDW S	Pacific Telephone
1956	WELSH JERRY	Pacific Telephone
1950	WELSH JERRY R	Pacific Telephone
	WELSH JERRY R	Pacific Telephone

18337 KITTRIDGE ST

Year	Uses	Source
2004	OCALLERO Chester A	Haines Company
1991	Callero Chester A	Pacific Bell
1985	Callero Chester A	Pacific Bell
1980	CALLERO CHESTER A	Pacific Telephone
1975	Callero Chester A	Pacific Telephone
1970	CALLERO CHESTER A	Pacific Telephone
	CALLERO CHESTER A	Pacific Telephone
1965	CALLERO CHES TER	Pacific Telephone
1962	CALLERO CHESTER A	Pacific Telephone
1956	CALLERO CHESTER A	Pacific Telephone

FINDINGS

Year	Uses	Source
1950	CORRELL ROBT M R	Pacific Telephone
	CORRELL ROBT M R	Pacific Telephone

18345 KITTRIDGE ST

Year	Uses	Source
2004	FARUKUVigane	Haines Company
	HIJRIMehr A	Haines Company
	MARIASHSteven	Haines Company
	MITAArdita	Haines Company
1995	Berrios Santos Nicolas	Pacific Bell
	Elahian Darya	Pacific Bell
1991	Brothers Bradley A	Pacific Bell
	Brothers Claudia	Pacific Bell
	Hoang Huy	Pacific Bell
	Lilah Hahamy	Pacific Bell
1985	Breyo Andrew S	Pacific Bell
	BRE YS PICTURE FRAME S HOP	Pacific Bell
	Davis S	Pacific Bell
	Dygdon John W	Pacific Bell
	Dyjor Nanette	Pacific Bell
	Powell A	Pacific Bell
	Schwab Aaron	Pacific Bell
	Schwab T	Pacific Bell
	Zalin Jack	Pacific Bell
1980	BURT A R	Pacific Telephone
	DAVIS S	Pacific Telephone
	DYGDON JOHN W	Pacific Telephone
	SCHWAB AARON	Pacific Telephone
	SCHWAB T	Pacific Telephone
	ZALIN JACK	Pacific Telephone
	YOAKUM S RESEDA	Pacific Telephone
1975	Cope Steve	Pacific Telephone
	Davis S	Pacific Telephone
	Dygdon John W	Pacific Telephone
	Grattidge Dean	Pacific Telephone
	Schwab Aaron	Pacific Telephone
	Wood Maria	Pacific Telephone
	Zalin Jack	Pacific Telephone
1970	KUNTZ E RESEDA	Pacific Telephone

Year	Uses	Source
1970	DYGDON JOHN W	Pacific Telephone
	HOOD CHAS E	Pacific Telephone
	ROSS SHELDON	Pacific Telephone
	SCHWAB AARON	Pacific Telephone
	WASSERMAN MORRIS	Pacific Telephone
	WOOD MARIA	Pacific Telephone
	ZALIN JACK	Pacific Telephone
	KUNTZ E RESEDA	Pacific Telephone
	DYGDON JOHN W	Pacific Telephone
	HOOD CHAS E	Pacific Telephone
	ROSS SHELDON	Pacific Telephone
	SCHWAB AARON	Pacific Telephone
	WASSERMAN MORRIS	Pacific Telephone
	WOOD MARIA	Pacific Telephone
	ZALIN JACK	Pacific Telephone
1965	HACK CHAS	Pacific Telephone
1956	KRUM WM H	Pacific Telephone
1950	DUBOIS WM R R	Pacific Telephone
	DUBOIS WM R R	Pacific Telephone

LEMAY ST

18142 LEMAY ST

Year	Uses	Source
2004	$CLEVELAND Kenneth	Haines Company
	KENETH Cleveland	Haines Company
1991	Cleveland Kenneth A	Pacific Bell
1985	Cleveland Kenneth A	Pacific Bell
1980	CLEVELAND KENNETH A	Pacific Telephone
1975	Cleveland Kenneth A	Pacific Telephone
1970	CLEVELAND KENNETH A	Pacific Telephone
	CLEVELAND KENNETH A	Pacific Telephone
1962	CLEVELAND KENNETH A	Pacific Telephone
1956	RODRIGUEZ CHAS J	Pacific Telephone

18143 LEMAY ST

Year	Uses	Source
2004	Hrair	Haines Company
	DEROHANNESSIAN	Haines Company

FINDINGS

Year	Uses	Source
1970	LINSDAY ROBT E	Pacific Telephone
	LINSDAY ROBT E	Pacific Telephone
1962	LINSDAY ROBT E	Pacific Telephone
1956	RENKO PAUL J	Pacific Telephone

18148 LEMAY ST

Year	Uses	Source
2004	MATHNEY Susan	Haines Company
1975	Lyon Lloyd A	Pacific Telephone
1970	NELSON JOHN F JR	Pacific Telephone
	NELSON JOHN F JR	Pacific Telephone
1962	POLAK ROBT	Pacific Telephone
1956	HIPPIE ROBT B	Pacific Telephone

18149 LEMAY ST

Year	Uses	Source
2004	MUNSTER William	Haines Company
1995	Munster Wm A Jr	Pacific Bell
1991	Munster Wm AJr	Pacific Bell
	Munsterman S	Pacific Bell
1985	Munster Wm A Jr	Pacific Bell
1980	MUNSTER WM A JR	Pacific Telephone
1975	Munster Wm A Jr	Pacific Telephone
1970	MUNSTER WM A JR	Pacific Telephone
	MUNSTER WM A JR	Pacific Telephone
1956	MUNSTER WM A JR	Pacific Telephone

18152 LEMAY ST

Year	Uses	Source
2004	KARAPANIAN Karmen	Haines Company
1980	PAYNE EVERITT V DR	Pacific Telephone
1975	Payne Everitt V Dr	Pacific Telephone
1970	PAYNE EVERITT V DR	Pacific Telephone
	PAYNE EVERITT V DR	Pacific Telephone
1962	PAYNE EVERITT V DR	Pacific Telephone
1956	PAYNE EVERITT V DR	Pacific Telephone

18153 LEMAY ST

Year	Uses	Source
2004	ESCOBAR David	Haines Company

FINDINGS

Year	Uses	Source
1995	Jeong Jae Pil	Pacific Bell
1985	Pasternak R	Pacific Bell
	Pasters D	Pacific Bell
	Pastina A	Pacific Bell
	Pasternak Michael	Pacific Bell
	Baum Gary	Pacific Bell
1980	BAUM GARY	Pacific Telephone
1975	Babicka Jan	Pacific Telephone
1956	IVESON IRENE MRS	Pacific Telephone
	NEWCOMBE R L	Pacific Telephone

Lemay St

18154 Lemay St

Year	Uses	Source
2014	NOORIGIAN M CONSTRUCTION CO	EDR Digital Archive
2010	NOORIGIAN M CONSTRUCTION CO	EDR Digital Archive

LEMAY ST

18154 LEMAY ST

Year	Uses	Source
2004	SNOORIGIAN Michael	Haines Company
1975	Hammill Donald F	Pacific Telephone
1970	HAMMILL DONALD F	Pacific Telephone
	HAMMILL DONALD F	Pacific Telephone
1962	HAMMILL DONALD F	Pacific Telephone
1956	EBNER CYRIL R R	Pacific Telephone

18155 LEMAY ST

Year	Uses	Source
2004	OSTUZENSKIJoan W	Haines Company
1995	Stuzenski Joan W	Pacific Bell
1991	Stuzenski Joan W	Pacific Bell
1985	Stuzenski Joan W	Pacific Bell
1980	STUZENSKI JOAN W	Pacific Telephone
1975	Stuzenski Joan W	Pacific Telephone

FINDINGS

LIMAY ST

18142 LIMAY ST

Year	Uses	Source
1965	LE8VELANC KEN8ETH	Pacific Telephone

18143 LIMAY ST

Year	Uses	Source
1965	L4FSOAY VBT	Pacific Telephone

18148 LIMAY ST

Year	Uses	Source
1965	LEI4BPASGHAL LLCY	Pacific Telephone

18149 LIMAY ST

Year	Uses	Source
1965	MUNSTER WI1LIAM J	Pacific Telephone

NESTLE AVE

6600 NESTLE AVE

Year	Uses	Source
2004	DOODNAUTHH	Haines Company
1991	Doodnauth H	Pacific Bell
1975	Rappaport Louis	Pacific Telephone
1965	:RAPPAPORT LOUIS	Pacific Telephone

6601 NESTLE AVE

Year	Uses	Source
2004	SMEZASandra M	Haines Company
1995	Socorro Ana	Pacific Bell
1991	Socorro Ana	Pacific Bell
	Socrates Jude	Pacific Bell
1965	TAKSAR SAUL	Pacific Telephone

6606 NESTLE AVE

Year	Uses	Source
2004	MORAEdmundo	Haines Company

6607 NESTLE AVE

Year	Uses	Source
2004	SALAHNour	Haines Company

FINDINGS

Year	Uses	Source
2004	SHARRIFFZahra	Haines Company
1985	Garfinkle Todd	Pacific Bell
	Garfold A	Pacific Bell
	Garfold Bl P Cty	Pacific Bell

Nestle Ave

6612 Nestle Ave

Year	Uses	Source
2010	R & A TRUCKING	EDR Digital Archive

NESTLE AVE

6612 NESTLE AVE

Year	Uses	Source
2004	ALDANA Ricardo	Haines Company
1991	Novelli N	Pacific Bell
	Novelli Jan	Pacific Bell
	Novelli Don & no	Pacific Bell
	Novella D	Pacific Bell
1985	Enloe Jeff	Pacific Bell
	Enloe Jeff	Pacific Bell
	Enloe M	Pacific Bell
	Jorgensen Eric	Pacific Bell
1975	Thomason Gerald	Pacific Telephone

6613 NESTLE AVE

Year	Uses	Source
2004	HERNANDEZJose	Haines Company
1991	Bruce Lee J	Pacific Bell
	Bruce M	Pacific Bell
1975	Bruce Alexander Jr	Pacific Telephone
1965	ROBEKSC0 C	Pacific Telephone

6616 NESTLE AVE

Year	Uses	Source
2004	PEREZ Rau	Haines Company

FINDINGS

6618 NESTLE AVE

Year	Uses	Source
1975	Dornan Eugene G	Pacific Telephone

6619 NESTLE AVE

Year	Uses	Source
2004	MCNALLY Paol	Haines Company
1965	HOLMGREN G	Pacific Telephone

6624 NESTLE AVE

Year	Uses	Source
2004	OCARDONAHumberto	Haines Company
1975	Woodring Thos O	Pacific Telephone
1965	WOORING THOS	Pacific Telephone

6625 NESTLE AVE

Year	Uses	Source
2004	GARCIA Norma E E	Haines Company
	SECHEVERRIANoemi	Haines Company
	ECHEVERRIAJose	Haines Company
	CARAVEOEnrique	Haines Company
	GONZALEZJavier V	Haines Company
	APARTMENTS	Haines Company
	AGUAS LJose	Haines Company
1995	Echeverria Adrian A	Pacific Bell
1991	De Santiago Rosenda	Pacific Bell
1985	Hinckley Rob	Pacific Bell

6628 NESTLE AVE

Year	Uses	Source
2004	HURTADOMana	Haines Company
1995	Salazar Josefina	Pacific Bell
1985	Ackerman Michael	Pacific Bell
1975	Lewis L M	Pacific Telephone
1965	AMC OERMOTT M	Pacific Telephone

Nestle Ave

6629 Nestle Ave

Year	Uses	Source
2014	TAX PLACE	EDR Digital Archive

Year	Uses	Source
2010	TAX PLACE	EDR Digital Archive

NESTLE AVE

6629 NESTLE AVE

Year	Uses	Source
2004	MOREY Gilberto L	Haines Company
1995	Marcy Gilberto L	Pacific Bell
	Morey Gilberto L	Pacific Bell
1991	Morey Gilberto L	Pacific Bell
1985	Morey Gliberto L	Pacific Bell
	Morey Jorge	Pacific Bell
1975	Morey Gilberto L	Pacific Telephone

6634 NESTLE AVE

Year	Uses	Source
2004	LUNDIE Nathaniel	Haines Company
1975	Nelson Timothy K	Pacific Telephone
1965	FARLQW H	Pacific Telephone

6635 NESTLE AVE

Year	Uses	Source
2004	BUSTOS Eusebia	Haines Company
1975	Inglett Neal	Pacific Telephone
1965	JONES R L	Pacific Telephone

6640 NESTLE AVE

Year	Uses	Source
2004	GOMEZJuan	Haines Company
1985	Bazar Wm Bl	Pacific Bell
1975	Bazar Wm B	Pacific Telephone
1965	BAZAR WILLIAM	Pacific Telephone

6641 NESTLE AVE

Year	Uses	Source
2004	OBRADOFORD Roderick	Haines Company
1991	Prach Harold J	Pacific Bell
1985	Prach Harold J	Pacific Bell
1975	Prach Harold J	Pacific Telephone
1965	PRACH JANICE	Pacific Telephone

6646 NESTLE AVE

Year	Uses	Source
2004	BUCHANAN Warren	Haines Company
1995	Buchanan Warren	Pacific Bell
1991	Buchanan Warren	Pacific Bell
1985	Buchanan Marie	Pacific Bell
	Buchanan Warren	Pacific Bell
1975	Sourbeer M C	Pacific Telephone

6647 NESTLE AVE

Year	Uses	Source
2004	MOREIRAJose	Haines Company
	MENDEZJose	Haines Company
1965	STRI1CKLANO G E	Pacific Telephone

Nestle Ave

6652 Nestle Ave

Year	Uses	Source
2014	SLIGHTLY OFFENSIVE LLC	EDR Digital Archive
	INTRUSION DETECTION SYSTEM	EDR Digital Archive
2010	INTRUSION DETECTION SYSTEM	EDR Digital Archive

NESTLE AVE

6652 NESTLE AVE

Year	Uses	Source
2004	SYSTEM	Haines Company
	INTRUSION DETECTION	Haines Company
	GORICSANJozsef	Haines Company
1965	COONTZ J	Pacific Telephone

6653 NESTLE AVE

Year	Uses	Source
2004	AGUIRFRE Manuel	Haines Company

6656 NESTLE AVE

Year	Uses	Source
2004	RENDONJohn	Haines Company
	MONTANTES Felslas	Haines Company
1975	Lewis John D	Pacific Telephone

Year	Uses	Source
1965	LITTLE BERNA RD	Pacific Telephone

6657 NESTLE AVE

Year	Uses	Source
2004	MARTINEZJose T	Haines Company
	FLORES Ana Lucia	Haines Company
1985	Cook Robt C	Pacific Bell
1975	Cook Robt C	Pacific Telephone
1965	CDK R	Pacific Telephone

6700 NESTLE AVE

Year	Uses	Source
2004	KHALILI Raymond	Haines Company
1985	Abraham Ray	Pacific Bell
1975	Abraham Ray	Pacific Telephone
1965	ABRAHAM R	Pacific Telephone

6701 NESTLE AVE

Year	Uses	Source
2004	OVILLA Joe	Haines Company
1995	Villa Joe	Pacific Bell
1991	Villa Joe	Pacific Bell
1985	J Bl Construction Cleaning Service	Pacific Bell
	J & Bl Electronic Door Service POBox 8126 LCrs	Pacific Bell
	Villa Joe	Pacific Bell
1975	Villa Kathy	Pacific Telephone
	Villa Joe	Pacific Telephone
	Villa Irene	Pacific Telephone
1965	VILLA JOE	Pacific Telephone

6706 NESTLE AVE

Year	Uses	Source
2004	AGHAYouel	Haines Company
1995	Israel Richard	Pacific Bell
1991	Israel Richard	Pacific Bell
	Israel Robin & Rachael	Pacific Bell
	Israel Rose	Pacific Bell
	Israel Samuel S	Pacific Bell
	Israel Sam	Pacific Bell

FINDINGS

Year	Uses	Source
1991	Israels	Pacific Bell
	Israels	Pacific Bell
1965	HANSEN CARL	Pacific Telephone

6707 NESTLE AVE

Year	Uses	Source
2004	IBANEZAzucena	Haines Company
	GOMEZ Francisce	Haines Company
1995	Guerra Esperanza	Pacific Bell
1991	Guerra Esperanza	Pacific Bell
1965	FRIELDS ATHAL	Pacific Telephone

6712 NESTLE AVE

Year	Uses	Source
2004	RUELAS Elva Rosa	Haines Company
	GIJARRO MARTIN	Haines Company
	GUIJARROMartin	Haines Company
1985	Wheeless Thad F Jr	Pacific Bell
1975	Wheeless Thad F Jr	Pacific Telephone
1965	SAWTELLEMARY P	Pacific Telephone

6713 NESTLE AVE

Year	Uses	Source
2004	OGHAZARIAN Nomer	Haines Company
1995	Caroom Jerry & Mary	Pacific Bell
	Caroom Mary Attny	Pacific Bell
1991	Caroom Jerry & Mary	Pacific Bell
1975	Wilcox Ty P Mrs	Pacific Telephone
1965	BROTHERS DARL	Pacific Telephone

6718 NESTLE AVE

Year	Uses	Source
2004	SLOZANOReynaldor	Haines Company
1985	Thomas G	Pacific Bell
1975	Thomas John P	Pacific Telephone
1965	RCOUNTS JOHN	Pacific Telephone

6719 NESTLE AVE

Year	Uses	Source
2004	OCONTRERASOscar	Haines Company

Year	Uses	Source
1975	Robertson Wm Randolph	Pacific Telephone

6724 NESTLE AVE

Year	Uses	Source
2004	MCMILLIANTed J	Haines Company
1995	Mc Millian Jos	Pacific Bell
1991	Mc Millian Patrick Sepulveda	Pacific Bell
	Mc Millian Jos	Pacific Bell
1985	Mc Millian Jos	Pacific Bell
1975	Mc Millian Jos	Pacific Telephone
1965	MCMILLIAN J	Pacific Telephone

6725 NESTLE AVE

Year	Uses	Source
2004	PHANMIchel	Haines Company
1965	KELLY H	Pacific Telephone

WYNNE AVE

6601 WYNNE AVE

Year	Uses	Source
1962	GIFFORD AVARD L	Pacific Telephone
1956	GLASS ALVIN	Pacific Telephone

6607 WYNNE AVE

Year	Uses	Source
2004	HUMBERKirk	Haines Company
1991	Thomas Harold LA	Pacific Bell
1985	Thomas Harold L A	Pacific Bell
1980	THOMAS HAROLD L A	Pacific Telephone
1956	THOMAS HAROLD L A R	Pacific Telephone

6610 WYNNE AVE

Year	Uses	Source
2004	FIGUEROAWilliam	Haines Company
	FIGUEROAWilliam	Haines Company
	PINEDA Margarila	Haines Company
1980	MAC DORAN FRANK S	Pacific Telephone
1970	MAC DORAN FRANK S	Pacific Telephone
	MAC DORAN FRANK S	Pacific Telephone

Year	Uses	Source
1962	MAC DORAN FRANK S	Pacific Telephone
1956	MAC DORAN FRANK S R	Pacific Telephone

Wynne Ave

6613 Wynne Ave

Year	Uses	Source
2010	CECCI	EDR Digital Archive

WYNNE AVE

6613 WYNNE AVE

Year	Uses	Source
2004	ALVARADOJose	Haines Company
1970	GAUGLITZ KURT G	Pacific Telephone
	GAUGLITZ KURT G	Pacific Telephone
1962	GAUGLITZ KURT G	Pacific Telephone

6618 WYNNE AVE

Year	Uses	Source
2004	SYEHJennifer L	Haines Company
1985	Connor C S	Pacific Bell
	Burr E J	Pacific Bell
1970	NIEDERHAUSE JACOB	Pacific Telephone
	NIEDERHAUSE JACOB	Pacific Telephone
1962	NIEDERHAUSE JACOB	Pacific Telephone
1956	NIEDERHAUSE JACOB	Pacific Telephone

Wynne Ave

6619 Wynne Ave

Year	Uses	Source
2010	ABSOLUTE LIMOUSINE SERVICE	EDR Digital Archive

WYNNE AVE

6619 WYNNE AVE

Year	Uses	Source
2004	ABSOLUTE LIMOUSINE	Haines Company
	SERVICE	Haines Company
	LEONE Bruce	Haines Company

FINDINGS

Year	Uses	Source
1985	Fulton AE	Pacific Bell
1980	FULTON A E	Pacific Telephone
1970	FULTON A E	Pacific Telephone
	FULTON A E	Pacific Telephone
1962	ELSDEN ALTA MRS	Pacific Telephone
1956	ELSDEN FRED E MRS	Pacific Telephone

6624 WYNNE AVE

Year	Uses	Source
2004	BETANCIOBenlngo	Haines Company
	BRAVO Rafael	Haines Company
	BRAVO Rafael	Haines Company
1995	Bravo Rafael	Pacific Bell
1991	Bravo Rafael	Pacific Bell
1985	Bravo Rafael	Pacific Bell
1970	WELCH MIKE	Pacific Telephone
	RANDALL PATRICIA F	Pacific Telephone
	WELCH MIKE	Pacific Telephone
	RANDALL PATRICIA F	Pacific Telephone
1962	WELCH ELIZABETH	Pacific Telephone
	RANDALL ROBT D	Pacific Telephone
1956	OLIVER EDW P	Pacific Telephone

6625 WYNNE AVE

Year	Uses	Source
2004	CASTILLO Estela	Haines Company
1970	FONNER GEO E	Pacific Telephone
	FONNER GEO E	Pacific Telephone
1962	MATTHEWS C JUSTUS	Pacific Telephone
1956	TORRES CARL	Pacific Telephone

6628 WYNNE AVE

Year	Uses	Source
2004	IBATARSEElena	Haines Company
1991	Sasis Flordeliza	Pacific Bell
	Saslove R	Pacific Bell
	Saslow FM	Pacific Bell
	Saslow J	Pacific Bell
1962	HIGGINS JOHN V	Pacific Telephone

Year	Uses	Source
1956	HIGGINS JOHN V	Pacific Telephone

6629 WYNNE AVE

Year	Uses	Source
2004	PRUNEDAEmeasto	Haines Company
	FLORESLourdes	Haines Company
1970	ARNOTT WILLARD	Pacific Telephone
	ARNOTT WILLARD	Pacific Telephone
1962	ARNOTT FLORENCE M	Pacific Telephone
1956	ARNOTT FLORENCE M R	Pacific Telephone

6633 WYNNE AVE

Year	Uses	Source
1970	PARKS SARAH	Pacific Telephone
	PARKS SARAH	Pacific Telephone

Wynne Ave

6634 Wynne Ave

Year	Uses	Source
2010	FIRST CLASS HARDWOOD FLOO	EDR Digital Archive

WYNNE AVE

6634 WYNNE AVE

Year	Uses	Source
2004	AYALAWilson	Haines Company
1985	Leyva Sergio & Dolores	Pacific Bell
1970	MOORE FRANK J	Pacific Telephone
	MOORE FRANK J	Pacific Telephone
1956	ROOT ROBT	Pacific Telephone

6635 WYNNE AVE

Year	Uses	Source
2004	RAMON Gloria	Haines Company
	IPENA Isalas	Haines Company
	RAMON Gloria	Haines Company
1962	PARKS SARAH	Pacific Telephone
1956	PARKS SARAH	Pacific Telephone

FINDINGS

6640 WYNNE AVE

Year	Uses	Source
2004	SEBRAHIMIVaji	Haines Company
1985	Jahilian Ani	Pacific Bell
1980	JAHILIAN ANI RESEDA	Pacific Telephone
1970	BALKE WM H	Pacific Telephone
	BALKE WM H	Pacific Telephone

6641 WYNNE AVE

Year	Uses	Source
1995	Niesslein Ray	Pacific Bell
1991	Niesslein Ray	Pacific Bell
1985	Niesslein Ray	Pacific Bell
	Niesslein Ray	Pacific Bell
1980	NIESSLEIN RAY	Pacific Telephone
	NIESSLEIN RAY	Pacific Telephone
1975	Guaranteed Maintenance Engineers	Pacific Telephone
1970	OGBURN BRAD	Pacific Telephone
	OGBURN BRAD	Pacific Telephone
1956	OGBURN WM F	Pacific Telephone

6646 WYNNE AVE

Year	Uses	Source
2004	CASTROMario	Haines Company
1956	REUBEN SIDNEY	Pacific Telephone

6647 WYNNE AVE

Year	Uses	Source
2004	TO Hiep	Haines Company
1980	VIEYRA JOEL	Pacific Telephone
1970	GUYOT EDW H	Pacific Telephone
	GUYOT EDW H	Pacific Telephone
1962	SCHUBERG GLEN A	Pacific Telephone
1956	SCHUBERG GLEN A	Pacific Telephone

6652 WYNNE AVE

Year	Uses	Source
2004	GUERRADora	Haines Company
1995	Waters Ronya	Pacific Bell
1991	Barth Charles 707627	Pacific Bell
	Barth Carolyn	Pacific Bell

FINDINGS

Year	Uses	Source
1985	du Vernet Y M	Pacific Bell
	Duvo D	Pacific Bell
1980	DU VERNET Y M	Pacific Telephone
1962	RUFF WM M	Pacific Telephone
1956	DU VERNET CHAS M R RESEDA	Pacific Telephone

6653 WYNNE AVE

Year	Uses	Source
2004	SANDERS Phyllis	Haines Company
1985	Sanders P	Pacific Bell
	Sanders Pans	Pacific Bell
	Sanders Pamela Sylm	Pacific Bell
1980	SANDERS P	Pacific Telephone
1975	Sanders P	Pacific Telephone
1970	SANDERS JOHN D	Pacific Telephone
	SANDERS JOHN D	Pacific Telephone
1962	SANDERS JOHN D	Pacific Telephone
1956	SANDERS JOHN D	Pacific Telephone

6656 WYNNE AVE

Year	Uses	Source
2004	SCHUMANN JF	Haines Company
1995	Schumann J F	Pacific Bell
1991	Schumann J F	Pacific Bell
1985	Larsen V	Pacific Bell
	Larsen Thos L	Pacific Bell
1980	LARSEN THOS L	Pacific Telephone
1956	LEVY MURRAY	Pacific Telephone

6657 WYNNE AVE

Year	Uses	Source
2004	SANCHEZAHredo	Haines Company
	SANCHEZ Oscar	Haines Company
1985	Holoter Michael	Pacific Bell
1980	BONILLA FRED	Pacific Telephone
1970	LEWIS HARRY	Pacific Telephone
	LEWIS HARRY	Pacific Telephone
1962	BONILLA FRED A	Pacific Telephone

FINDINGS

6700 WYNNE AVE

Year	Uses	Source
1985	Gaynes P K	Pacific Bell
1980	GAYNES P K	Pacific Telephone
1970	GAYNES P K	Pacific Telephone
	GAYNES P K	Pacific Telephone
1962	MACGREGOR JOHN J	Pacific Telephone
1956	MAC GREGOR JOHN J R	Pacific Telephone

6701 WYNNE AVE

Year	Uses	Source
1995	Lasky M	Pacific Bell
	S Lasky Mark A	Pacific Bell
1991	Lasky Mark A	Pacific Bell
1985	Aidem Robt M	Pacific Bell
1980	AIDEM ROBT M	Pacific Telephone
1970	AIDEM ROBT M	Pacific Telephone
	AIDEM ROBT M	Pacific Telephone
1962	AIDEM ROBT M	Pacific Telephone
1956	AIDEM ROBT M R	Pacific Telephone

6706 WYNNE AVE

Year	Uses	Source
2004	SYACOUBIAN Haroulioun	Haines Company
1995	Yacoubian Haroutioun	Pacific Bell
1991	Yacoubian Haroutioun	Pacific Bell
	Yacoubian Haroutioun	Pacific Bell
1970	KNIPS RAY E	Pacific Telephone
	KNIPS RAY E	Pacific Telephone
1962	KNIPS RAY E	Pacific Telephone
	KNIPS ALICE	Pacific Telephone
1956	BARNES DANL J	Pacific Telephone

6707 WYNNE AVE

Year	Uses	Source
2004	SROMOHermnnlon	Haines Company
1985	Behjoo Nasser	Pacific Bell
1980	MORSTEON R E	Pacific Telephone
1970	KRIMSKY SAML	Pacific Telephone
	KRIMSKY SAML	Pacific Telephone

FINDINGS

Year	Uses	Source
1962	KRIMSKY SAML	Pacific Telephone
1956	KRIMSKY SAML	Pacific Telephone

6712 WYNNE AVE

Year	Uses	Source
1995	Covarrubias Miguel	Pacific Bell
1991	Covarrubias Miguel	Pacific Bell
1980	SHILLABEER LLOYD	Pacific Telephone
1970	SHILLABEER LLOYD	Pacific Telephone
	SHILLABEER LLOYD	Pacific Telephone
1962	SHILLABEER LLOYD	Pacific Telephone
1956	SHILLABEER LLOYD	Pacific Telephone

6713 WYNNE AVE

Year	Uses	Source
1980	RICHTER LOUIS	Pacific Telephone
1970	SHAW IDA	Pacific Telephone
	SHAW IDA	Pacific Telephone
1962	SHAW JOE	Pacific Telephone
1956	SHILKOFF JOE	Pacific Telephone

6717 WYNNE AVE

Year	Uses	Source
2004	CUEVA Cynthia	Haines Company
	SMELERO Ratael	Haines Company
1995	Melero Rafael	Pacific Bell
1991	Melero Rafael	Pacific Bell
1985	Melero Rafael	Pacific Bell

6718 WYNNE AVE

Year	Uses	Source
2004	SHAEUSSLER Fay	Haines Company
1962	HAEUSSLER FAY	Pacific Telephone
1956	MOELLER CALVIN E	Pacific Telephone

6723 WYNNE AVE

Year	Uses	Source
2004	MACLEANSara	Haines Company
	SMACLEANJamie	Haines Company
1970	HULL BETTY	Pacific Telephone

FINDINGS

Year	Uses	Source
1970	HULL LAWRENCE E	Pacific Telephone
	HULL LAWRENCE E	Pacific Telephone
	HULL BETTY	Pacific Telephone
1962	SMITH A H	Pacific Telephone
1956	CULLEN FRANCES E	Pacific Telephone

6724 WYNNE AVE

Year	Uses	Source
1970	GARTZKE HENRY	Pacific Telephone
	GARTZKE HENRY	Pacific Telephone
1962	LANDERS DORIS E	Pacific Telephone
	ATCHISON JUANITA	Pacific Telephone
1956	KLINGLER ALBERT F	Pacific Telephone

FINDINGS

TARGET PROPERTY: ADDRESS NOT IDENTIFIED IN RESEARCH SOURCE

The following Target Property addresses were researched for this report, and the addresses were not identified in the research source.

Address Researched	Address Not Identified in Research Source
18230 Kittridge Street	2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

ADJOINING PROPERTY: ADDRESSES NOT IDENTIFIED IN RESEARCH SOURCE

The following Adjoining Property addresses were researched for this report, and the addresses were not identified in research source.

Address Researched	Address Not Identified in Research Source
18142 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18142 LIMAY ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18143 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18143 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18143 LIMAY ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18148 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18148 LIMAY ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
18149 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18149 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18149 LIMAY ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18152 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18153 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18153 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18154 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18154 Lemay St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18155 LEMAY ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18159 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18165 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
18169 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18169 Kittridge St	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18303 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18308 KITTRIDGE ST	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18317 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18331 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18337 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
18345 KITTRIDGE ST	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6501 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6503 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6510 ETIWANDA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6555 ETIWANDA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6600 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6600 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6600 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6601 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6601 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6601 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6606 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6606 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6606 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6607 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6607 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6609 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6610 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6612 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6612 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6612 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6612 Nestle Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6613 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6613 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6613 Wynne Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6615 Chimineas Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6615 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6616 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6618 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6618 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6618 NESTLE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6618 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6619 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6619 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6619 Wynne Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6621 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6624 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6624 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6624 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6624 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6625 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6625 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6628 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6628 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6628 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6629 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6629 Nestle Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6629 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6630 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6633 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6633 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6634 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6634 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6634 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6634 Wynne Ave	2014, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6635 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6635 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6635 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6636 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6639 CHIMINEAS AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6640 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6640 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6640 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6641 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6641 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6641 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6645 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6646 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6646 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6646 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6647 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6647 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6651 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6652 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6652 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6652 Nestle Ave	2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6652 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6653 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6653 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6654 CHIMINEAS AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6655 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6656 ETIWANDA AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1972, 1971, 1969, 1967, 1966, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6656 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6656 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6657 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6657 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6658 ETIWANDA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6681 ETIWANDA AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6700 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6700 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6701 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6701 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6706 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6706 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6707 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6707 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6712 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6712 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6713 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6713 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6717 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6718 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6718 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

FINDINGS

Address Researched	Address Not Identified in Research Source
6719 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1965, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6723 WYNNE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6724 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1992, 1990, 1986, 1981, 1980, 1976, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6724 WYNNE AVE	2014, 2010, 2006, 2004, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1969, 1967, 1966, 1965, 1964, 1963, 1961, 1960, 1958, 1957, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920
6725 NESTLE AVE	2014, 2010, 2006, 2003, 2001, 2000, 1999, 1996, 1995, 1992, 1991, 1990, 1986, 1985, 1981, 1980, 1976, 1975, 1972, 1971, 1970, 1969, 1967, 1966, 1964, 1963, 1962, 1961, 1960, 1958, 1957, 1956, 1955, 1954, 1952, 1951, 1950, 1949, 1948, 1947, 1946, 1945, 1944, 1942, 1940, 1939, 1938, 1937, 1936, 1935, 1934, 1933, 1932, 1931, 1930, 1929, 1928, 1927, 1926, 1925, 1924, 1923, 1921, 1920

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.8
June 19, 2017

EDR Building Permit Report

Target Property and Adjoining Properties

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

TABLE OF CONTENTS

SECTION

About This Report

Executive Summary

Findings

Glossary

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EDR BUILDING PERMIT REPORT

About This Report

The EDR Building Permit Report provides a practical and efficient method to search building department records for indications of environmental conditions. Generated via a search of municipal building permit records gathered from more than 1,600 cities nationwide, this report will assist you in meeting the search requirements of EPA's Standards and Practices for All Appropriate Inquiries (40 CFR Part 312), the ASTM Standard Practice for Environmental Site Assessments (E 1527-13), or custom requirements developed for the evaluation of environmental risk associated with a parcel of real estate.

Building permit data can be used to identify current and/or former operations and structures/features of environmental concern. The data can provide information on a target property and adjoining properties such as the presence of underground storage tanks, pump islands, sumps, drywells, etc., as well as information regarding water, sewer, natural gas, electrical connection dates, and current/former septic tanks.

ASTM and EPA Requirements

ASTM E 1527-13 lists building department records as a "standard historical source," as detailed in § 8.3.4.7: "Building Department Records - The term building department records means those records of the local government in which the property is located indicating permission of the local government to construct, alter, or demolish improvements on the property." ASTM also states that "Uses in the area surrounding the property shall be identified in the report, but this task is required only to the extent that this information is revealed in the course of researching the property itself."

EPA's Standards and Practices for All Appropriate Inquires (AAI) states: "§312.24: Reviews of historical sources of information. (a) Historical documents and records must be reviewed for the purposes of achieving the objectives and performance factors of §312.20(e) and (f). Historical documents and records may include, but are not limited to, aerial photographs, fire insurance maps, building department records, chain of title documents, and land use records."

Methodology

EDR has developed the EDR Building Permit Report through our partnership with BuildFax, the nation's largest repository of building department records. BuildFax collects, updates, and manages building department records from local municipal governments. The database now includes 30 million permits, on more than 10 million properties across 1,600 cities in the United States.

The EDR Building Permit Report comprises local municipal building permit records, gathered directly from local jurisdictions, including both target property and adjoining properties. Years of coverage vary by municipality. Data reported includes (where available): date of permit, permit type, permit number, status, valuation, contractor company, contractor name, and description.

Incoming permit data is checked at seven stages in a regimented quality control process, from initial data source interview, to data preparation, through final auditing. To ensure the building department is accurate, each of the seven quality control stages contains, on average, 15 additional quality checks, resulting in a process of approximately 105 quality control "touch points."

For more information about the EDR Building Permit Report, please contact your EDR Account Executive at (800) 352-0050.

EDR® Environmental Data Resources Inc

BUILD FAX PROPERTY HISTORY

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

A search of building department records was conducted by Environmental Data Resources, Inc (EDR) on behalf of Ninyo & Moore on Jun 19, 2017.

TARGET PROPERTY

18230 Kittridge Street
Reseda, CA 91335

SEARCH METHODS

EDR searches available lists for both the Target Property and Surrounding Properties.

RESEARCH SUMMARY

Building permits identified: **YES**

The following research sources were consulted in the preparation of this report. An "X" indicates where information was identified in the source and provided in this report.

Los Angeles

Year	*Source*	*TP*	*Adjoining*
2017	City of Los Angeles, Department of Building and Safety		X
2016	City of Los Angeles, Department of Building and Safety		X
2015	City of Los Angeles, Department of Building and Safety		X
2014	City of Los Angeles, Department of Building and Safety		X
2013	City of Los Angeles, Department of Building and Safety		X
2012	City of Los Angeles, Department of Building and Safety		X
2011	City of Los Angeles, Department of Building and Safety		X
2010	City of Los Angeles, Department of Building and Safety		X
	City of Los Angeles, Department of Building and Safety	X	
2009	City of Los Angeles, Department of Building and Safety		X
	City of Los Angeles, Department of Building and Safety	X	
2008	City of Los Angeles, Department of Building and Safety		X
2007	City of Los Angeles, Department of Building and Safety		X
2006	City of Los Angeles, Department of Building and Safety		X
2005	City of Los Angeles, Department of Building and Safety		X
2004	City of Los Angeles, Department of Building and Safety		X
2003	City of Los Angeles, Department of Building and Safety		X
2002	City of Los Angeles, Department of Building and Safety		X
2001	City of Los Angeles, Department of Building and Safety		X
2000	City of Los Angeles, Department of Building and Safety		X
1999	City of Los Angeles, Department of Building and Safety		X
1998	City of Los Angeles, Department of Building and Safety		X
1997	City of Los Angeles, Department of Building and Safety		X
1996	City of Los Angeles, Department of Building and Safety		X
1995	City of Los Angeles, Department of Building and Safety		
1994	City of Los Angeles, Department of Building and Safety		
1993	City of Los Angeles, Department of Building and Safety		
1992	City of Los Angeles, Department of Building and Safety		

EXECUTIVE SUMMARY: SEARCH DOCUMENTATION

Year	Source	TP	Adjoining
1991	City of Los Angeles, Department of Building and Safety		
1990	City of Los Angeles, Department of Building and Safety		
1989	City of Los Angeles, Department of Building and Safety		
1988	City of Los Angeles, Department of Building and Safety		

BUILDING DEPARTMENT RECORDS SEARCHED

Name: Los Angeles
Years: 1988-2017
Source: City of Los Angeles, Department of Building and Safety, RESEDA, CA
Phone: (213) 482-6800

Name: San Bernardino County
Years: 2002-2017
Source: San Bernardino County, Land Use, Building & Safety, BLOOMINGTON, CA
Phone: (909) 387-8311

TARGET PROPERTY FINDINGS

TARGET PROPERTY DETAIL

18230 Kittridge Street
Reseda, CA 91335

18230 KITTRIDGE ST

Date:	**10/21/2010**
Permit Type:	
Description:	**No Plan Check TEMPORARY GENERATORS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Special Equipment
Permit Number:	100414000020945
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ZAHN CHESTER WAYNE

Date:	**9/17/2010**
Permit Type:	
Description:	**No Plan Check 200 AMP CTS; SUBPANEL.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	100412000018482
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	POWER PLUS

TARGET PROPERTY FINDINGS

Date:	**10/15/2009**
Permit Type:	
Description:	**No Plan Check INSTALL 200 AMP. CTS.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	090412000019567
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	POWER PLUS

ADJOINING PROPERTY FINDINGS

ADJOINING PROPERTY DETAIL

The following Adjoining Property addresses were researched for this report. Detailed findings are provided for each address.

CHIMINEAS AVE

6600 CHIMINEAS AVE

Date:	**1/8/2016**
Permit Type:	
Description:	**Plan Check ADD 11'0" X 20" STORAGE RM TO EXISTING**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Private Garage Private Garage
Permit Number:	150142000005972
Status:	
Valuation:	$5,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**4/1/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150414000009655
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	VOGEL CHARLES M

ADJOINING PROPERTY FINDINGS

Date:	**11/4/2002**
Permit Type:	
Description:	**No Plan Check INSTALL EARTHQUAKE VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	020429000034189
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HICKS PLUMBING TECHNOLOGIES

6601 CHIMINEAS AVE

Date:	**3/5/2007**
Permit Type:	
Description:	**No Plan Check replace rooftop a/c unit.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	070449000002270
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PROGRESSIVE SERVICE

ADJOINING PROPERTY FINDINGS

Date:	**7/18/2000**
Permit Type:	
Description:	**Plan Check CONVERT EXISTING ATT. GARAGE TO STORAGE AND ADD 10'X7' FULL BATH INSIDE THE PROPOSED STORAGE. ADD 2-CAR CARPORT (18' X 19'). ALL WORK PER TYPE V-SHEET**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000003953
Status:	
Valuation:	$6,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6606 CHIMINEAS AVE

C.O. Issued Date:	**6/1/2012**
Date:	**1/19/2012**
Permit Type:	
Description:	**Plan Check Convert 18' x 19'6" 2-car garage to stor age/ bath rooms and add 17' x 18' 2-car carport to (e) SFD. COMPLY WITH DEPARTMENT ORDER effective date 09/13/2011. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	120142000000148
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6612 CHIMINEAS AVE

Date:	**6/6/2002**
Permit Type:	
Description:	**No Plan Check INSTALL 40 AMP CIRCUIT FOR A/C**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	020412000012216
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RONCO ELECTRIC INC

Date:	**5/29/2002**
Permit Type:	
Description:	**No Plan Check INSTALL PACKAGE UNIT, DUCTWORK, GAS LINE EXTENSION**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	020442000005192
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	I M AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

6618 CHIMINEAS AVE

Date:	**1/10/2011**
Permit Type:	
Description:	**No Plan Check 4" sewer repair**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110429000000364
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RESCUE ROOTER

6624 CHIMINEAS AVE

Date:	**6/25/2008**
Permit Type:	
Description:	**No Plan Check 100 AMP C.T.S.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	080412000014307
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **4/7/2008**
Permit Type:
Description: **Plan Check ADD 17'6" X 32'4" BATH/CLOSET ADDITION TO SFD**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 080142000001460
Status:
Valuation: $40,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

6633 CHIMINEAS AVE

Date: **7/15/2010**
Permit Type:
Description: **No Plan Check install sub panel**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 100419000013566
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **7/15/2010**
Permit Type:
Description: **No Plan Check install hvac unit**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 100449000006744
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**7/8/2010**
Permit Type:	
Description:	**Plan Check CONVERT (E) LAUNDRY ROOM INTO (N) BATHROOM; KITCHEN & BATHROOM REMODEL (REPLACE KITCHEN CABINETS & COUNTER, REPLACE TUB & SINK AT BATHROOM)**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	100162000012212
Status:	
Valuation:	$2,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**6/3/2002**
Permit Type:	
Description:	**No Plan Check INSTALL E.Q. VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	020429000015137
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRC MECHANICAL

ADJOINING PROPERTY FINDINGS

ETIWANDA AVE

6606 ETIWANDA AVE

Date:	**11/29/2010**
Permit Type:	
Description:	**No Plan Check install new wall furnace**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	100449000011721
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RELIABLE ENERGY MANAGEMENT INC

6618 ETIWANDA AVE

Date:	**11/19/2011**
Permit Type:	
Description:	**No Plan Check FAU change out**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110449000013575
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RELIABLE ENERGY MANAGEMENT INC

ADJOINING PROPERTY FINDINGS

6628 ETIWANDA AVE

Date:	**6/25/2004**
Permit Type:	
Description:	**No Plan Check Installed 1 earthquake gas shut off valve.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	040429000018580
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRC MECHANICAL

Date:	**5/19/2004**
Permit Type:	
Description:	**No Plan Check INSTALLED 1 EARTHQUAKE VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	040429000014584
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	PRC MECHANICAL

ADJOINING PROPERTY FINDINGS

6634 ETIWANDA AVE

Date:	**9/28/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150449000010068
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	GLENAIR

Date:	**10/23/2014**
Permit Type:	
Description:	**No Plan Check (1) Window change-out (same size & type for residential buildings. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors and windows replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140162000021690
Status:	
Valuation:	$1,110.00
Contractor Company:	
Contractor Name:	TOPCHAIN CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date:	**10/23/2014**
Permit Type:	
Description:	**No Plan Check (2) Window change-out (same size & type for residential buildings. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors and windows replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140162000021693
Status:	
Valuation:	$1,613.00
Contractor Company:	
Contractor Name:	TOPCHAIN CONSTRUCTION INC

Date:	**8/23/2001**
Permit Type:	
Description:	**No Plan Check INSTALL HVAC (SPLIT SYSTEM)**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	010442000008304
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LAS AMERICAS AIR CONDITIONING & HEATING

ADJOINING PROPERTY FINDINGS

Date:	**10/17/2000**
Permit Type:	
Description:	**No Plan Check UPGRADE SERVICE TO 100 AMPS, ADD GFI'S**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000412000021329
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BESS CONSTRUCTION

Date:	**10/17/2000**
Permit Type:	
Description:	**No Plan Check REPIPE 5 FIXTURES, 2 HOSE BIBBS, RELOCATE WATER HEATER, ADD EQ VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	000422000016051
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BESS CONSTRUCTION

ADJOINING PROPERTY FINDINGS

6645 ETIWANDA AVE

Date:	**2/12/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	160413000005107
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OLIVERA VINCENT LAWRENCE

Date:	**12/18/2014**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weig ing less than 6 pound per sq. ft.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	140167000025600
Status:	
Valuation:	$28,000.00
Contractor Company:	
Contractor Name:	GUTIERREZ A ROOFING CO

ADJOINING PROPERTY FINDINGS

Date: **12/18/2012**
Permit Type:
Description: **No Plan Check REPLACE WATER HEATER.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 120421000022869
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HALE TIM O PLUMBING CONTRACTOR

Date: **6/21/2010**
Permit Type:
Description: **No Plan Check REPLACE WATER HEATER.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 100422000010167
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HALE TIM O PLUMBING CONTRACTOR

Date: **8/8/2007**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL TO PERMIT 06042-10000-08473 FOR ADDITION OF GAS LINES FOR RANGE AND FOR INSTALLATION OF EQ VALVES.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 060421000208473
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **3/12/2007**
Permit Type:
Description: **No Plan Check REPLACE LIGHTS AND SUBPANELS. UNITS 8A, 9A AND 11A.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 070412000006056
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

Date: **3/12/2007**
Permit Type:
Description: **No Plan Check REPLACE FIXTURES. UNITS 8A, 9A AND 11A.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 070422000005546
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

Date: **3/12/2007**
Permit Type:
Description: **No Plan Check REPLACE KITCHEN AND BATHROOM EXHAUST. UNITS 8A, 9A AND 11A.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 070442000002540
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **2/14/2007**
Permit Type:
Description: **Plan Check repipe of existing apartment building. 1 1/2" meter, no backflow protection. 96/65 high/low psi per plan. Sized on 7 psi per 100 feet.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 070422000003470
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: AMERISERV REPIPING INC

Date: **11/15/2006**
Permit Type:
Description: **No Plan Check INSTALL CENTRAL STATION SPRINKLER ALARM MONITORING.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 060411000028500
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: BRIMAX SECURITY SYSTEMS

Date: **9/14/2006**
Permit Type:
Description: **No Plan Check RELOCATE SERVICE RISER**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 060412000023078
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date: **5/8/2006**
Permit Type:
Description: **No Plan Check SUPPLEMENTAL PERMIT FOR HEAT PUMPS AND INLETS/OUTLETS. UNITS 2A, 4A, 10A AND 14A.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 060441000104384
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

Date: **5/1/2006**
Permit Type:
Description: **No Plan Check REPLACE BATHROOM EXHAUST FANS.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 060441000004384
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: QUIZON E E CONSTRUCTION

Date: **4/17/2006**
Permit Type:
Description: **No Plan Check SUPPL. PERMIT TO PERMIT #02016-20000-09362 FOR CHANGE OF OWNERSHIP TO ETIWANDA VENTURES, LLC.**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 020161000209362
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**4/17/2006**
Permit Type:	
Description:	**No Plan Check REPLACE FIXTURES & SUBPANEL (UNITS: 2A, 4A, 10A, 14A) 2 OF 2 WITH PERMIT# 06042-10000-08473.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	060411000009054
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUIZON E E CONSTRUCTION

Date:	**4/17/2006**
Permit Type:	
Description:	**No Plan Check REPLACE FIXTURES & INSTALL NEW VANITY. (UNITS: 2A, 4A, 10A, 14A) 1 OF 2 WITH PERMIT# 06041-10000-09054.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	060421000008473
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUIZON E E CONSTRUCTION

ADJOINING PROPERTY FINDINGS

Date:	**4/17/2006**
Permit Type:	
Description:	**No Plan Check SUPPL. PERMIT TO PERMIT #06042-10000-08473 FOR (4) GAS METERS AND (4) EQ. VALVES. (UNITS #2A, #4A, #10A, AND #14A)**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	060421000108473
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUIZON E E CONSTRUCTION

Date:	**11/3/2005**
Permit Type:	
Description:	**No Plan Check INSTALL (15) EARTHQUAKE VALVES.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	050429100027505
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	METRO RETROFITTING

Date:	**11/1/2005**
Permit Type:	
Description:	**No Plan Check INSTALL (7) METERS W/ SUBPANELS TO EXISTING (14) GANG METER SERVICE. NEW (24) GANG METER.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	050411000026716
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	D D P ELECTRIC

ADJOINING PROPERTY FINDINGS

Date:	**4/12/2004**
Permit Type:	
Description:	**Plan Check REVISE PERMIT NO. 02016 20000 06362 (03VN 23426) TO CHANGE FLOOR PLAN @ UNIT #10 - RE-LOCATE EXISTING KITCHEN.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	020162000109362
Status:	
Valuation:	$501.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**2/18/2004**
Permit Type:	
Description:	**No Plan Check INSTALL (9) TUB & SHOWER VALVES. REPAIR/REPLACE DRAINS FOR LAVATORY SINKS. WORK TO BE DONE IN UNITS (1ST FLOOR) #A1, A2, A3, A4 & (2ND FLR) #8A, 9A, 10A, 11A, 14A.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	040421000004691
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	V E PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**1/12/2004**
Permit Type:	
Description:	**No Plan Check INSTALL 4 NEW SUBPANELS AND CIRCUITS FOR LIGHTS, SWITCHES, AND OUTLETS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	040412000000686
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	G G ELECTRIC

Date:	**6/9/2003**
Permit Type:	
Description:	**Plan Check INSTALLATION OF FIRE SPRINKLER SYSTEM IN AN APARTMENT BUILDING. LIGHT HAZARD OCCUPANCY, NFPA 13R. NEW 2" FIRE SERVICE, NO BACKFLOW PREVENTER.**
Permit Description:	**Fire Sprinkler**
Work Class:	
Proposed Use:	Apartment
Permit Number:	030432000001287
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A Z FIRE SPRINKLER

ADJOINING PROPERTY FINDINGS

Date:	**1/22/2003**
Permit Type:	
Description:	**Plan Check REMODEL: REMODEL UNITS #1 & #3 @ 1-ST FLOOR & CONVERT EXISTING 2-STORY 14-UNITS APARTMENT & 5-GUEST RMS & 7-CAR CARPORT TO 21-UNITS APARTMENT W/A 7-CAR CARPORT...SEE ZA 2001 2946 ZV. SPRINKLERS REQ'D THRU-OUT.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	020162000009362
Status:	
Valuation:	$90,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**1/22/2001**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT - ADDING SMOKE DETECTOR IN UNIT 8**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	000412000125881
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ESTRADA TONY HUBERT ELECTRIC

ADJOINING PROPERTY FINDINGS

Date:	**12/21/2000**
Permit Type:	
Description:	**No Plan Check INSTALL 1 NEW CIRCUIT FOR ELECTRIC RANGE AS PER. ORDER FROM HOUSING APT 8-A**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Apartment
Permit Number:	000412000025881
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ESTRADA TONY HUBERT ELECTRIC

6646 ETIWANDA AVE

Date:	**6/8/2010**
Permit Type:	
Description:	**No Plan Check INSTALLATION OF SGSOV**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	100429000009408
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	METRO RETROFITTING INC

ADJOINING PROPERTY FINDINGS

6652 ETIWANDA AVE

Date: **2/27/2003**
Permit Type:
Description: **No Plan Check SERVICE PANEL**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030412000004224
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **1/6/2003**
Permit Type:
Description: **No Plan Check Install EQ Valve**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030429000000317
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: L G S RETROFITTERS

Date: **5/20/1998**
Permit Type:
Description: **No Plan Check RELOCATE AND 100 AMP SERVICE UPGRADE**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 980412000009447
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6656 ETIWANDA AVE

Date:	**8/11/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150419000026030
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**8/11/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150419000026031
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**4/11/2013**
Permit Type:	
Description:	**No Plan Check Change out wall heater**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130447000003784
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	TONY'S HEATING & A/C SERVICE INC

ADJOINING PROPERTY FINDINGS

Date: **10/11/2004**
Permit Type:
Description: **No Plan Check INSTALLED SGSOV**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 040429000029442
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: HOME SOLUTIONS

ETIWANDA AVE APT 6

6635 ETIWANDA AVE APT 6

Date: **4/10/2017**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 170449000003928
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CARIBE CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date: **1/11/2017**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 170422000000647
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LANIER'S PLUMBING

Date: **8/23/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 160411000029937
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CARIBE CONSTRUCTION INC

Date: **8/23/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 160421000017492
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CARIBE CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date: **8/23/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 160441000009748
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: CARIBE CONSTRUCTION INC

Date: **8/15/2016**
Permit Type:
Description: **Plan Check (E) STORAGE TO BE CONVERSION TO RECREAT**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 160161000008220
Status:
Valuation: $35,000.00
Contractor Company:
Contractor Name: CARIBE CONSTRUCTION INC

Date: **10/2/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150422000117624
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: METRO RETROFITTING INC

ADJOINING PROPERTY FINDINGS

Date: **9/1/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150429000017624
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: METRO RETROFITTING INC

Date: **1/22/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 150412000001917
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ONG MARK CHRISTOPHER

Date: **1/22/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150422000001420
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ONG MARK CHRISTOPHER

ADJOINING PROPERTY FINDINGS

Date: **9/22/2004**
Permit Type:
Description: **No Plan Check WALL HEATER REPAIR.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 040441000009670
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

ETIWANDA AVE UNIT 18

6641 ETIWANDA AVE UNIT 18

Date: **8/4/2016**
Permit Type:
Description: **Plan Check PARKING LOT RESTRIPING (REF. 15016-1**

Permit Description: **Nonbldg-Alter/Repair**
Work Class:
Proposed Use: Apartment
Permit Number: 160261000000315
Status:
Valuation: $1,000.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date: **1/28/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 160422000001762
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COAST PLUMBING CO

Date: **12/22/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 150441000209241
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

Date: **12/8/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150421000024275
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COAST PLUMBING CO

ADJOINING PROPERTY FINDINGS

Date: **10/15/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 150417000129392
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

Date: **10/15/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150427000117964
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

Date: **10/15/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 150447000109241
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date: **9/4/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 150411000029392
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

Date: **9/4/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150421000017964
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

Date: **9/4/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 150441000009241
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LAGUNA & SMITH CONSTRUCTION INC

ADJOINING PROPERTY FINDINGS

Date:	**8/10/2015**
Permit Type:	
Description:	**Plan Check CONVERT 18 UNITS APARTMENT WITH ONE GUE T ROOM INTO 19 UNITS <NON-BEARING WALL>**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	150161000006987
Status:	
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	JASSOS CONSTRUCTION INC

Date:	**2/24/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	150422000103284
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LANIER'S PLUMBING

Date:	**2/17/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	150421000003284
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LANIER'S PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **9/3/2010**
Permit Type:
Description: **No Plan Check WALL HEATER CHANGE OUT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000008588
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

Date: **8/24/2010**
Permit Type:
Description: **No Plan Check WALL HEATER CHANGE OUT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000008153
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

Date: **6/24/2010**
Permit Type:
Description: **No Plan Check CHANGE OUT WALL HEATER.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000006099
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

ADJOINING PROPERTY FINDINGS

Date: **6/16/2010**
Permit Type:
Description: **No Plan Check REPLACE CONDUIT ONLY**

Permit Description: **Electrical**
Work Class:
Proposed Use: Apartment
Permit Number: 100412000011529
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: LEIGHTY DANIEL

Date: **6/7/2010**
Permit Type:
Description: **No Plan Check replace drywall. (no new walls added)**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 100162000009979
Status:
Valuation: $4,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **4/26/2010**
Permit Type:
Description: **No Plan Check WALL HEATER CHANGE OUT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000003820
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

ADJOINING PROPERTY FINDINGS

Date: **4/26/2010**
Permit Type:
Description: **No Plan Check WALL HEATER CHANGE OUT.**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000003849
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

Date: **4/26/2010**
Permit Type:
Description: **No Plan Check WALL HEATER CHANGE OUT**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000003850
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

Date: **2/10/2010**
Permit Type:
Description: **No Plan Check CHANGE OUT WALL HEATER**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000001198
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

ADJOINING PROPERTY FINDINGS

Date: **2/10/2010**
Permit Type:
Description: **No Plan Check CHANGE OUT WALL HEATER**

Permit Description: **HVAC**
Work Class:
Proposed Use: Apartment
Permit Number: 100442000001204
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: COMMUNITY ENHANCEMENT SERVICES

Date: **9/30/2008**
Permit Type:
Description: **No Plan Check INSTALL 19 EQV's**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Commercial
Permit Number: 080429000019025
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PRC MECHANICAL

Date: **3/4/1999**
Permit Type:
Description: **No Plan Check RE-ROOF OVER EXISTING CAP W/ 1 BASE, 1PLY & 1 CAP. 30SQS**

Permit Description: **Bldg-Alter/Repair**
Work Class:
Proposed Use: Apartment Apartment
Permit Number: 990162000003879
Status:
Valuation: $2,300.00
Contractor Company:
Contractor Name: A-1 ALL AMERICAN ROOFING CO VALLEY INC

ADJOINING PROPERTY FINDINGS

Date:	**7/11/1997**
Permit Type:	
Description:	**No Plan Check REPLACE GAS LINE FROM METER METER LOCATED AT REAR OF BUILDING**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Commercial
Permit Number:	970422000006128
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	BURWELL PLUMBING

KITTRIDGE ST

18149 KITTRIDGE ST

Date:	**1/8/2004**
Permit Type:	
Description:	**Plan Check 25'6"x20'3" IRR. (492 SQ.FT.) ADDITION OF (N) BEDROOM AND BATH PER TYPE V SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	040142000000130
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **9/22/2003**
Permit Type:
Description: **No Plan Check 200 AMP. SERVICE UPGRADE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030412000021657
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SOSA ELECTRIC

18153 KITTRIDGE ST

Date: **5/15/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 150419000014970
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GRID ALTERNATIVES

Date: **10/17/2006**
Permit Type:
Description: **No Plan Check 200 AMP. SERVICE UPGRADE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 060412000025996
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**2/26/2007**
Date:	**6/16/2006**
Permit Type:	
Description:	**Plan Check PROPOSE 12'X21'-6" (258 SQ FT) REAR BEDRM EXTENSION WITH WIC/BATH/LAUNDRY TO (E) ONE STORY SFD W/ ATT GARAGE _ ALL WORK TO BE DONE PER LA CITY TYPE V SHEET**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	060142000005479
Status:	
Valuation:	$20,650.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

18159 KITTRIDGE ST

Date:	**8/8/2011**
Permit Type:	
Description:	**No Plan Check REPLACE NON-OPERABLE WALL FURNACE. COMPLY W/ DEPT ORDER DATED 10/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110441000008931
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COMMERCIAL & RESIDENTIAL SERVICES

ADJOINING PROPERTY FINDINGS

Date:	**3/26/2010**
Permit Type:	
Description:	**No Plan Check CHANGE OUT WATER HEATER 40 GAL.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	100424000004899
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RELIABLE ENERGY MANAGEMENT INC

Date:	**5/18/2007**
Permit Type:	
Description:	**Plan Check CONVERT (E) ATT 18' X 20'2" GARAGE TO (2) BEDROOMS AND 1/2 BATH. EX BEDRM TO STUDY RM. ADD NEW 18' X 18' ATTACHED CARPORT PER CITY STD DETAIL. ALL WORK PER TYPE V-SHEET. "COMPLY WITH DEPARTMENT ORDER EFFECTIVE DATE 10/11/06. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE."**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	060142000010931
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**5/26/2000**
Permit Type:	
Description:	**Plan Check ADD 27.75' X 33.58" BEDRM, BATHRM, AND EXTEND EXIST DINING RM AT REAR OF SFD.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000002698
Status:	
Valuation:	$47,000.00
Contractor Company:	
Contractor Name:	PROGRESS CONSTRUCTION CO

Date:	**1/23/1998**
Permit Type:	
Description:	**No Plan Check Remove wood facing, and lath & stucco over 10 x 10 area. T/O, reroof w/comp 'A' shingles (11 sqs) Install (N) concrete slab in garage.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	980162000001300
Status:	
Valuation:	$1,500.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

18165 KITTRIDGE ST

Date:	**7/17/2012**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	120412000016565
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

18169 KITTRIDGE ST

Date:	**12/13/2011**
Permit Type:	
Description:	**Plan Check 7-6" x 18'-3" addition to (E) SFD: enla rge living room and add bathroom per engineer's design.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110142000004379
Status:	
Valuation:	$13,600.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**3/20/2006**
Permit Type:	
Description:	**Plan Check PROPOSE IRREG. 34'-10"X32' TWO BEDRMS/WIC, TWO BATHRMS ADD'N & KITCHEN EXTENSION TO CONNECT (E) SFD & DETACHED GARAGE & ADD 7'-6"X4'5" BATHRM TO (E) BEDRM _ ALL WORK TO BE DONE PER LA CITY TYPE V SHEET**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	060142000002152
Status:	
Valuation:	$70,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**1/12/2005**
Permit Type:	
Description:	**No Plan Check Installation of earthquake gas shut-off valve.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	050429000000788
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SEISMIC SERVICES SPECIALISTS

ADJOINING PROPERTY FINDINGS

18303 KITTRIDGE ST

Date:	**7/26/2010**
Permit Type:	
Description:	**Plan Check NEW PV SYSTEM IN THE BUILDING. 1 @ 7.5 KW & 1 @ 6 KW INVERTERS WITH 84 MODULES**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	100411000002559
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**3/17/2009**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weighing less than 6 pound per sq. ft.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	090161000003669
Status:	
Valuation:	$63,758.00
Contractor Company:	
Contractor Name:	SOUTHERN CALIFORNIA FOAM & COATINGS

ADJOINING PROPERTY FINDINGS

18317 KITTRIDGE ST

Date:	**6/19/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	150422000012478
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CHAMPION PLUMBING & DRAINS

Date:	**10/9/2007**
Permit Type:	
Description:	**Plan Check CHANGE ALL EXTERIOR GAURDRAIL ON SECOND FLOOR COMMON WALKWAY, EXTEND EXISTING PLANTER TO RECONFIFURE THE ENTRANCE, AND REMOVE EXISTING STEEL TUBE RAILING OVER THE ENTRANCE AND REPLACE WITH SOLID WOOD FENCE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	070163000018986
Status:	
Valuation:	$11,000.00
Contractor Company:	
Contractor Name:	ELITE REMODELING INC

ADJOINING PROPERTY FINDINGS

Date:	**9/5/2007**
Permit Type:	
Description:	**No Plan Check Reroof with 180 sqrs COMP SHINGLE roofing. Existing solid sheathing.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	070169000016803
Status:	
Valuation:	$36,000.00
Contractor Company:	
Contractor Name:	X-TREME ROOFING

Date:	**1/13/2004**
Permit Type:	
Description:	**No Plan Check REPLACE 100 GALLON WATER HEATER AND STORAGE TANK.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	040423000000934
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	INFINITY PLUMBING

Date:	**1/9/2004**
Permit Type:	
Description:	**Plan Check REPLACE WATER PIPING IN A 2-STORY APARTMENT BUILDING. EXISTING 2" DOMESTIC METER TO REMAIN(NO BACKFLOW PREV. DEVICES).**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	040421000000597
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	INFINITY PLUMBING

ADJOINING PROPERTY FINDINGS

Date: **6/9/2000**
Permit Type:
Description: **No Plan Check INSTALLATION OF SWIMMING POOL LIGHT.**

Permit Description: **Electrical**
Work Class:
Proposed Use: Commercial
Permit Number: 000411000011493
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: EXPRESS ELECTRIC SERVICE

18331 KITTRIDGE ST

Date: **2/26/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: Apartment
Permit Number: 150429000004049
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: WIELANDT INC

ADJOINING PROPERTY FINDINGS

Date:	**10/9/2007**
Permit Type:	
Description:	**Plan Check REMOVER EXITING PLANTER IN FRONT ENTRY AND RECONFIGURE FRONT ENTRANCE ; REMOVE EXISTING IRON TUBE FENCE ABOVE THE ENTRANCE AND REPLACE WITH WOOD FENCE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	070163000018978
Status:	
Valuation:	$7,500.00
Contractor Company:	
Contractor Name:	ELITE REMODELING INC

Date:	**10/1/2007**
Permit Type:	
Description:	**No Plan Check Reroof with 165 sqrs COMP SHINGLE roofing. Existing solid sheathing.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	070169000018656
Status:	
Valuation:	$33,000.00
Contractor Company:	
Contractor Name:	X-TREME ROOFING

ADJOINING PROPERTY FINDINGS

Date:	**12/16/2003**
Permit Type:	
Description:	**No Plan Check REPLACED 100 GALLON WATER HEATER.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	030423000138437
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	INFINITY PLUMBING

Date:	**12/11/2003**
Permit Type:	
Description:	**Plan Check REPLACE WATER PIPING IN A 2-STORY APARTMENT BUILDING. EXISTING 2" DOMESTIC METER TO REMAIN(NO BACKFLOW PREV. DEVICES).**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	030421000038437
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	INFINITY PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**7/27/2000**
Permit Type:	
Description:	**No Plan Check Reroof: remove the exising roof-covering; install 240 squares of Class A fiberglass shingles over existing solid sheathing for the apartment building only.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	000167000014059
Status:	
Valuation:	$12,000.00
Contractor Company:	
Contractor Name:	WESTERN CONSTRUCTION & MAINTENANCE

Date:	**6/9/2000**
Permit Type:	
Description:	**No Plan Check INSTALLATION OF SWIMMING POOL LIGHT**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	000411000011492
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	EXPRESS ELECTRIC SERVICE

ADJOINING PROPERTY FINDINGS

18345 KITTRIDGE ST

Date:	**1/16/2014**
Permit Type:	
Description:	**No Plan Check LAUNDRY ROOM CEILING LIGHT**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	140412000001374
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	R L W DEVELOPMENT & DESIGN CORPORATION

Date:	**1/16/2014**
Permit Type:	
Description:	**No Plan Check COPPER REPIPE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	140422000000916
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	R L W DEVELOPMENT & DESIGN CORPORATION

Date:	**5/6/2013**
Permit Type:	
Description:	**No Plan Check REPLACE WATER HEATER**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	Apartment
Permit Number:	130422000008664
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROOTER AID PLUMBING

ADJOINING PROPERTY FINDINGS

Date:	**12/7/2010**
Permit Type:	
Description:	**No Plan Check WALL HEATER CHANGE OUT.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	Apartment
Permit Number:	100442000012067
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	COMMUNITY ENHANCEMENT SERVICES

Date:	**5/24/2004**
Permit Type:	
Description:	**Plan Check UPGRADE USE FROM 5 GUEST ROOMS TO 5 LIGHT HOUSEKEEPING ROOMS (UNITS # 3, 7, 8, 10, 12).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	Apartment Apartment
Permit Number:	040162000009033
Status:	
Valuation:	$1,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

LEMAY ST

18142 LEMAY ST

Date:	**3/28/2014**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weig ing less than 6 pound per sq. ft. Valuation to be verified by Inspector.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	140162000005968
Status:	
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	IROOF

Date:	**6/18/2013**
Permit Type:	
Description:	**No Plan Check package changeout and 8 inlets/outlets**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000006297
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HEATING & AIR CONDITIONING INC

ADJOINING PROPERTY FINDINGS

Date: **1/26/2011**
Permit Type:
Description: **No Plan Check 4" sewer line pull with trenchless system**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 110429000001383
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MR ROOTER

Date: **1/24/2011**
Permit Type:
Description: **No Plan Check replace horizontal waste lines under home**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 110429000001238
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: MR ROOTER

18148 LEMAY ST

Date: **1/13/2009**
Permit Type:
Description: **No Plan Check 200 amp service upgrade**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 090419000000553
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ULTRA ELECTRIC

ADJOINING PROPERTY FINDINGS

18149 LEMAY ST

Date:	**8/17/2015**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weig ing less than 6 pounds per sq. ft. For residential roof replacement >50% of the total roof area, apply Cool Roof Product labeled and certified by Cool Roof Rating Council (CRRC). Cool Roof may be required for non-residental buildings per Title 24, Part 6, Section 149(b).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	150162000017326
Status:	
Valuation:	$7,000.00
Contractor Company:	
Contractor Name:	ROOFING TOUCH

Date:	**8/5/1997**
Permit Type:	
Description:	**No Plan Check INTERIOR REMODEL W/IN (E) BATHROOM, NON STRUCTURAL. REMOVE/ REPLACE RELATED ELECTRICAL & PLUMBING.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	970162000017529
Status:	
Valuation:	$4,500.00
Contractor Company:	
Contractor Name:	BARRY & BARRY BUILDERS

ADJOINING PROPERTY FINDINGS

18154 LEMAY ST

Date:	**2/9/2004**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT TO COMPLETE WORK DONE UNDER PERMIT NUMBER 99014 20000 01302 (80% COMPLETE).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	990142000101302
Status:	
Valuation:	$5,528.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**3/15/1999**
Permit Type:	
Description:	**Plan Check CONVERT (E) (19'X20') GAR TO BEDROOM, BATHROOM AND W.I.C. ADD 2-CAR GARAGE (20' X 24') PER TYPE V SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	990142000001302
Status:	
Valuation:	$27,640.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

18155 LEMAY ST

Date:	**4/29/2013**
Permit Type:	
Description:	**No Plan Check HORIZANTALS UNDERNEATH HOUSE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130429000008177
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AKHOIAN ENTERPRISES INC

Date:	**1/7/2013**
Permit Type:	
Description:	**No Plan Check Replace one bath secondaries**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130429000000288
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AKHOIAN ENTERPRISES INC

Date:	**6/8/2007**
Permit Type:	
Description:	**No Plan Check INSTALL CIRCUIT FOR A/C.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	070412000013933
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ARTURO'S HEATING AND AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date: **6/8/2007**
Permit Type:
Description: **No Plan Check INSTALL HVAC SPLIT SYSTEM.**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 070442000005994
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ARTURO'S HEATING AND AIR CONDITIONING

NESTLE AVE

6600 NESTLE AVE

Date: **4/8/2011**
Permit Type:
Description: **Plan Check BACKFILL (E) SWIMMING POOL. SHELL TO REMAIN. 92 CY MAX**

Permit Description: **Grading**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Grading Non-Hill
Permit Number: 110302000001582
Status:
Valuation: $92.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**3/27/1998**
Permit Type:	
Description:	**Plan Check REVISE 94WV08144 TO INCLUDE THE ECLOSURE PORTION OF STD PLAN 149. PERMIT SHOULD READ PATIO COVER AND ENCLOSURE.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	980162000005710
Status:	
Valuation:	$301.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6601 NESTLE AVE

Date:	**3/13/2013**
Permit Type:	
Description:	**No Plan Check Replace dual floor heater with dual wall heater. Location same as existing equipment.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000002660
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO-WEST INC

ADJOINING PROPERTY FINDINGS

Date: **12/13/2005**
Permit Type:
Description: **No Plan Check UPGRADE AND RELOCATE SERVICE.**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 050412000030244
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

C.O. Issued Date: **1/26/2010**
Date: **8/29/2005**
Permit Type:
Description: **Plan Check ADD 12'X18' LAUNDRY AND TWO BATHS TO REAR OF (E) SFD. ALL WORK PER TYPE V SHEET.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 050142000008485
Status:
Valuation: $17,280.00
Contractor Company:
Contractor Name: OWNER-BUILDER

Date: **12/17/2003**
Permit Type:
Description: **No Plan Check INSTALL EARTHQUAKE VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030429000039030
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: PADILLA PLUMBING INC

ADJOINING PROPERTY FINDINGS

6607 NESTLE AVE

Date:	**9/11/2013**
Permit Type:	
Description:	**No Plan Check Add sill plate anchors bolts and cripple wall plywood per L.A. City Std. Plan #1; no foundation replacement (EQ hazard reduction per Chapter 92).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	130169000018717
Status:	
Valuation:	$1,700.00
Contractor Company:	
Contractor Name:	JULIAN CONSTRUCTION INC

Date:	**7/24/2003**
Permit Type:	
Description:	**No Plan Check 818-885-0077**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	030429000023464
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CONTRACTOR CONNECTION THE

ADJOINING PROPERTY FINDINGS

6612 NESTLE AVE

Date:	**10/25/2016**
Permit Type:	
Description:	**Plan Check Plan check for the addition of a PV1 ro**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160412000036126
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**10/11/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160419000035843
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**8/22/2013**
Permit Type:	
Description:	**No Plan Check INSTALL 220V**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130419000022892
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A G HEATING & AIR CONDITIONING

ADJOINING PROPERTY FINDINGS

Date:	**8/22/2013**
Permit Type:	
Description:	**No Plan Check CHANGE OUT CONDENSER AND COIL**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000008830
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A G HEATING & AIR CONDITIONING

Date:	**5/11/2012**
Permit Type:	
Description:	**No Plan Check INSTALL ROOF MOUNTED SOLAR, INTERCONNECT W/ MAIN SERVICE PANEL. (4.68KW) UPGRADE MAIN PANEL TO 125A. Solar device(s) is/are roof mounted and do not exceed the existing building height at the highest point.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	120411000010833
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

ADJOINING PROPERTY FINDINGS

6613 NESTLE AVE

Date:	**8/6/2007**
Permit Type:	
Description:	**Plan Check ADD ENGINEER & PLAN CHECK TO PERMIT FOR REPAIR MOTOR VEHICLE DAMAGED HOUSE ON PERMIT # 07016-20000-12997.NEW BEAM & POST IN DINING ROOM.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070162000112997
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	HAR - BRO WEST INC

Date:	**7/11/2007**
Permit Type:	
Description:	**No Plan Check REPAIR MOTOR VEHICLE DAMAGED HOUSE. REMOVE AND REPLACE DAMAGED FRAMING, POST AND INTERIOR DRYWALL, SAME SIZE AND LOCATION. <10% DAMAGE. VALUATION TO BE VERIFIED BY FIELD INSPECTOR.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070162000012997
Status:	
Valuation:	$10,000.00
Contractor Company:	
Contractor Name:	HAR - BRO WEST INC

ADJOINING PROPERTY FINDINGS

Date:	**5/24/2004**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	040412000012645
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**3/15/2004**
Permit Type:	
Description:	**Plan Check CONVERT (E) 18' X 20' ATTACHED GARAGE TO BEDROOM/BATHRM/RECREATION ROOM. ADD 17'2" X 22' CARPORT. ALL WORK PER TYPE V SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	040142000002159
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6619 NESTLE AVE

Date:	**12/6/1996**
Permit Type:	
Description:	**T/O, REROOF W/ 19 SQS OF 1/2" PLY & CLASS "A"COMP SHINGLE**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	960162000006548
Status:	
Valuation:	$4,200.00
Contractor Company:	
Contractor Name:	G E S ROOFING

6625 NESTLE AVE

Date:	**12/1/2015**
Permit Type:	
Description:	**Plan Check PV1. NEW SOLAR SYSTEM ON EXISTING RESID**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150412000040283
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

ADJOINING PROPERTY FINDINGS

Date:	**1/11/2010**
Permit Type:	
Description:	**Plan Check SUPPLEMENTAL PERMIT FOR 00014-20000-06581 TO RENEW PERMIT @ 10% COMPLETE**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000106581
Status:	
Valuation:	$8,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

C.O. Issued Date:	**7/20/2010**
Date:	**3/28/2001**
Permit Type:	
Description:	**Plan Check PROPOSED ATT. PATIO COVER PER CITY STD PLAN (11'6"X12'8") ALL WORK PER TYPE V-SHEET. MODIFICATION TO ALLOW 8' SEPARATION TO EX. STORAGE WAS APPROVED.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	010142000001594
Status:	
Valuation:	$1,700.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**7/20/2010**
Date:	**11/30/2000**
Permit Type:	
Description:	**Plan Check ADD 9'-6"X13'-6" STUDY ROOM AT REAR OF SFD. 8' SEPARATION BETWEEN MAIN AND ACCESSORY BUILDING PER MOD. COMPLY WITH DEPARTMENT ORDER DATE 11-08-2000. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000006581
Status:	
Valuation:	$9,700.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6629 NESTLE AVE

Date:	**1/17/2013**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weigh ing less than 6 pound per sq. ft. Valuation to be verified by Inspector.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Private Garage
Permit Number:	130162000001103
Status:	
Valuation:	$2,800.00
Contractor Company:	
Contractor Name:	SUNRISE ROOFING INC A

ADJOINING PROPERTY FINDINGS

6635 NESTLE AVE

Date:	**11/21/2000**
Permit Type:	
Description:	**Plan Check COMPLY WITH DEPARTMENT ORDER DATED 11/8/00. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE - PROPOSED PATIO COVER, 9'8"X34'8" AT REAR. ALL WORK PER CITY STD DETAILS AND TYPE V-SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000142000006432
Status:	
Valuation:	$4,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**5/26/1998**
Permit Type:	
Description:	**No Plan Check BOARD & CARE. INSTALL 3 FIRE BELLS, 1 PULL STATION & TEST.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Public Safety Only
Permit Number:	980412000009742
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ELI ELECTRICAL SERVICES

ADJOINING PROPERTY FINDINGS

Date:	**8/29/1997**
Permit Type:	
Description:	**Plan Check REPLACE ALL BEDROOM DOORS. INSTALL A NEW EXIT DOOR AND HANDICAP RAMP. EXTEND FRONT PORCH.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	970162000017308
Status:	
Valuation:	$3,800.00
Contractor Company:	
Contractor Name:	MOREY GILBERT CONSTRUCTIONS

6641 NESTLE AVE

Date:	**5/20/2011**
Permit Type:	
Description:	**No Plan Check replace water heater.**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	110422000008712
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	NEIGHBORHOOD PLUMBER & ROOTER INC

ADJOINING PROPERTY FINDINGS

Date:	**10/25/2010**
Permit Type:	
Description:	**No Plan Check Re-roof with Class A or B material weighing less than 6 pound per sq. ft. Smoke detectors required.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	100162000019471
Status:	
Valuation:	$3,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**8/27/2009**
Permit Type:	
Description:	**No Plan Check sewer repair**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	090429000014948
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	MR SEWER ROOTER INC

Date:	**2/25/2009**
Permit Type:	
Description:	**No Plan Check INSTALL PACKAGE UNIT, DUCTWORK.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	090442000001542
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**7/28/2008**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	080412000016986
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	U S ELECTRICAL SERVICES

6653 NESTLE AVE

Date:	**9/15/2008**
Permit Type:	
Description:	**Plan Check 444 SQ FT ADDITION TO (E) SFD. BEDROOM/BATHROOM/FAMILY ROOM. PER ENG CALCS**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	080142000004178
Status:	
Valuation:	$40,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**2/12/2008**
Date:	**9/5/2007**
Permit Type:	
Description:	**Plan Check CONVERT 6'8"x12'0" PORTION OF (E) PATIO COVER INTO 3/4 BATHROOM&W.I.C AND ADD 16'4"x12'(STUDY ROOM) TO (e) MASTER BEDROOM.ALL WORK TO PER TYPE V.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070142000006307
Status:	
Valuation:	$20,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**5/23/2007**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE AND RELOCATION**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	070412000012460
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

C.O. Issued Date: **8/17/2007**
Date: **4/27/2007**
Permit Type:
Description: **Plan Check CONVERT (E) 18' x 20'2" GARAGE TO MASTER BED/BATHROOM AND ADD NEW CARPORT(18' x 18'). ALL WORK PER TYPE V SHEET.**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number: 070162000007731
Status:
Valuation: $20,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

6656 NESTLE AVE

Date: **10/1/2013**
Permit Type:
Description: **No Plan Check Install Dual wall located in the hallway**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 130449000010521
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ECONO-WEST INC

ADJOINING PROPERTY FINDINGS

Date:	**7/18/2013**
Permit Type:	
Description:	**No Plan Check Install Single wall located in hallway**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000007461
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO-WEST INC

6700 NESTLE AVE

Date:	**11/3/2011**
Permit Type:	
Description:	**No Plan Check Reroof with 24 sqrs COMP SHINGLE roofing. Existing solid sheathing.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	110169000021906
Status:	
Valuation:	$4,800.00
Contractor Company:	
Contractor Name:	PACIFIC HOME WORKS INC

ADJOINING PROPERTY FINDINGS

6701 NESTLE AVE

Date:	**2/22/2013**
Permit Type:	
Description:	**No Plan Check Install new single wall heater located i n the living room.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000001957
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO-WEST INC

6706 NESTLE AVE

Date:	**8/7/2012**
Permit Type:	
Description:	**No Plan Check SEWER REPAIR. ENG. #41508-50**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	120422000014323
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	LEAK FREE PLUMBING AND ROOTER

ADJOINING PROPERTY FINDINGS

Date:	**9/25/2000**
Permit Type:	
Description:	**No Plan Check Complete work started on Permit #93VN20551 (40% complete).**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	000162000018456
Status:	
Valuation:	$13,800.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**6/16/1997**
Permit Type:	
Description:	**Plan Check ADDITION: REVISE PERMIT NO. 93VN 20551 TO COMPLETE REMAINING 6O% OF WORK.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	970142000002592
Status:	
Valuation:	$18,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6707 NESTLE AVE

Date:	**4/15/2010**
Permit Type:	
Description:	**No Plan Check C/O FAU**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	100449000003474
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	RELIABLE ENERGY MANAGEMENT INC

Date:	**11/13/2003**
Permit Type:	
Description:	**No Plan Check INSTALLED SEISMIC GAS SHUT OFF VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	030429000035669
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	HOME SOLUTIONS

ADJOINING PROPERTY FINDINGS

6712 NESTLE AVE

Date:	**7/13/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160419000024517
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	360 MANAGEMENT GROUP INC

Date:	**7/11/2003**
Permit Type:	
Description:	**Plan Check convert (e) 20' x 19'6" garage to playroom with 1/2 bath. add 18' x 18' carport**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	030142000005305
Status:	
Valuation:	$25,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date: **4/17/2003**
Permit Type:
Description: **No Plan Check INSTALL E.Q. SHUT-OFF VALVE**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 030422000012298
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GINOCCHIO PLUMBING

6713 NESTLE AVE

Date: **12/14/2015**
Permit Type:
Description: **Plan Check PV1. NEW SOLAR SYSTEM ON EXISTING RESID**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 150412000042077
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: GALBAN ELECTRIC

Date: **8/21/1998**
Permit Type:
Description: **Plan Check 16' x 22'-4" FAMILY ROOM AND 1/2 RESTROOM ADDITION AT REAR**

Permit Description: **Bldg-Addition**
Work Class:
Proposed Use: 1 or 2 Family Dwelling Single Family Residence
Permit Number: 980142000004436
Status:
Valuation: $17,000.00
Contractor Company:
Contractor Name: OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6719 NESTLE AVE

Date:	**7/30/2003**
Permit Type:	
Description:	**Plan Check ADD 17'6"X18'10" FAMILY ROOM ADDITION AND 8'X5' DINING ROOM EXTENSION PER THE TYPE "V" SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	030142000004104
Status:	
Valuation:	$29,500.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6724 NESTLE AVE

Date:	**6/19/2007**
Permit Type:	
Description:	**No Plan Check "COMPLY WITH DEPARTMENT ORDER effective date 01/04/2007. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE. BATHROOM REMODEL; REPLACE VANITY, TILE AND PLUMBING FIXTURES. REMOVE AND REPLACE (11) WINDOWS, AND (3) DOORS, SAME SIZE, TYPE AND LOCATION. PAINT INTERIOR AND EXTERIOR. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for doors and windows re**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070162000011506
Status:	
Valuation:	$15,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

NESTLE AVE # PV1

6652 NESTLE AVE # PV1

Date:	**11/5/2012**
Permit Type:	
Description:	**No Plan Check INSTALL ROOF MOUNTED SOLAR, INTERCONNECT W/ MAIN SERVICE PANEL. (4.32KW) Solar device(s) is/are roof mounted and do not exceed the existing building height at the highest point.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	120411000026416
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

Date:	**6/20/2005**
Permit Type:	
Description:	**No Plan Check REPLACE HVAC SYSTEM.**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	050443000005990
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CALIFORNIA BREEZE H V A C

ADJOINING PROPERTY FINDINGS

C.O. Issued Date:	**9/14/2007**
Date:	**5/12/2005**
Permit Type:	
Description:	**Plan Check ADD DEN (13'X20') TO THE REAR OF (E) 1-STORY SFD AND REMODEL BATHROOM, KITCHEN AND 2 WINDOW CHANGEOUT WITH SAME SIZE.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	050142000004269
Status:	
Valuation:	$30,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

WYNNE AVE

6601 WYNNE AVE

Date:	**10/1/2009**
Permit Type:	
Description:	**No Plan Check INSTALL NEW 200AMP SERVICE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Commercial
Permit Number:	090419000018695
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	CALDERON ELECTRIC

ADJOINING PROPERTY FINDINGS

Date:	**2/8/2005**
Permit Type:	
Description:	**No Plan Check Installed one earthquake valve & strap**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	050429000003154
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	QUALITY PLUMBING

6619 WYNNE AVE

Date:	**12/10/2002**
Permit Type:	
Description:	**No Plan Check INSTALL EARTH QUAKE SHUTOFF VALVE**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	020422000038301
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6624 WYNNE AVE

Date:	**7/17/2006**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	060412000017339
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6625 WYNNE AVE

Date:	**10/21/2011**
Permit Type:	
Description:	**No Plan Check Reroof with 57 sqrs COMP SHINGLE roofing. Existing solid sheathing.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	110169000020930
Status:	
Valuation:	$11,400.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6629 WYNNE AVE

Date:	**7/29/2011**
Permit Type:	
Description:	**Plan Check NEW 16' X 15'6" PATIO COVER ADDITION TO THE REAR OF (E) SFD."COMPLY WITH DEPARTMENT ORDER effective date 07/04/2011. PERMIT WILL EXPIRE 30 DAYS FROM ISSUANCE DATE".**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	110142000002744
Status:	
Valuation:	$3,840.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**8/21/2007**
Permit Type:	
Description:	**No Plan Check softner**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	070429000018135
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	AQUACLEAR SYSTEMS CORP

ADJOINING PROPERTY FINDINGS

6634 WYNNE AVE

Date:	**4/24/2012**
Permit Type:	
Description:	**No Plan Check HVAC INSTALLATION.FURNACE**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	120449000004135
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	FAHRENHEIT HEATING AND AIR CONDITIONING

Date:	**6/15/2010**
Permit Type:	
Description:	**No Plan Check Replace 1 window(s). Same size, location, number, type.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	100169000010603
Status:	
Valuation:	$301.00
Contractor Company:	
Contractor Name:	M & M CONSTRUCTION CO

ADJOINING PROPERTY FINDINGS

Date:	**8/13/2009**
Permit Type:	
Description:	**No Plan Check Upgrade electrical service to 100 amps, run a/c condensor branch, and fau branch to attic.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	090419000015213
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ALL ENERGY ELECTRIC

Date:	**8/12/2009**
Permit Type:	
Description:	**No Plan Check install furnace and ac**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	090449000007324
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	M L P HEATING & COOLING

ADJOINING PROPERTY FINDINGS

6635 WYNNE AVE

C.O. Issued Date:	**1/24/2006**
Date:	**12/21/2004**
Permit Type:	
Description:	**Plan Check CONVERT (E) 18'x20' ATTACHED GARAGE TO FAMILY ROOM W/ BATH AND EXTEND IT 5'X18', ENLARGE LIVING ROOM 4'x14' AND ADD (N) 18'x19' CARPORT. ALL WORK PER TYPE V CONSTRUCTION.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence Single Family Residence
Permit Number:	040142000011778
Status:	
Valuation:	$31,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**6/6/2003**
Permit Type:	
Description:	**Plan Check EXTEND KITCHEN AND DINING ROOM (4'X26'). PER ENGINEERED DETAILS.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	030142000004256
Status:	
Valuation:	$8,300.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6646 WYNNE AVE

Date:	**6/19/2007**
Permit Type:	
Description:	**No Plan Check CTS**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	070412000014772
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A - CO TEMPORARY POWER

C.O. Issued Date:	**9/9/2008**
Date:	**6/7/2007**
Permit Type:	
Description:	**Plan Check ADD 20' X 36'10" 2-STORY ADDITION W/ 4' X 6'8" PATIO COVER TO (E) 1-STORY SFD**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	070142000001995
Status:	
Valuation:	$115,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

6652 WYNNE AVE

Date:	**3/12/2012**
Permit Type:	
Description:	**Plan Check 1ST AND 2ND STORY ADDITION TO (E) 1-STOR Y SFD W/ATT. GARAGE.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	110142000003343
Status:	
Valuation:	$150,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6657 WYNNE AVE

Date:	**12/15/2015**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	150419000042336
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	360 MANAGEMENT GROUP INC

ADJOINING PROPERTY FINDINGS

Date: **12/15/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 150429000024907
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: 360 MANAGEMENT GROUP INC

Date: **9/29/2015**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 150419000032193
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: 360 MANAGEMENT GROUP INC

ADJOINING PROPERTY FINDINGS

Date:	**8/25/2011**
Permit Type:	
Description:	**No Plan Check Window change-out (same size & type) for residential buildings. Dual glazing, labeled and certified by National Fenestration Rating Council (NFRC), is required for windows replaced in all residential buildings, three stories or less, per Section 152(b) of Title 24.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	110161000016247
Status:	
Valuation:	$6,000.00
Contractor Company:	
Contractor Name:	WAIZENEGGER

Date:	**1/31/2005**
Permit Type:	
Description:	**No Plan Check REPLACE FURNACE**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	050449000000967
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WINEGARD ENERGY

ADJOINING PROPERTY FINDINGS

Date: **6/25/2001**
Permit Type:
Description: **No Plan Check SERVICE CHANGE**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 010412000012998
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: OWNER-BUILDER

6700 WYNNE AVE

Date: **11/16/2010**
Permit Type:
Description: **No Plan Check REMOVE/REPLACE GAS WATER HEATER WITH TANKLESS UNIT**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 100429000019799
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: FAST WATER HEATER PARTNERS I L P

ADJOINING PROPERTY FINDINGS

6706 WYNNE AVE

Date:	**8/20/2002**
Permit Type:	
Description:	**Plan Check ADD 24'X20' FAMILY ROOM TO (E) SFD. CONSTRUCT PER TYPE V SHEET.**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	020142000005579
Status:	
Valuation:	$38,000.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

6712 WYNNE AVE

Date:	**2/29/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160419000006998
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SOLARCITY CORPORATION

ADJOINING PROPERTY FINDINGS

Date: **2/29/2016**
Permit Type:
Description: **No Plan Check**

Permit Description: **Electrical**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 160419000006999
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: SOLARCITY CORPORATION

Date: **4/29/2002**
Permit Type:
Description: **No Plan Check INSTALL EQ VALVE.**

Permit Description: **Plumbing**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020422000010798
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: G & W PLUMBING

6717 WYNNE AVE

Date: **6/13/2002**
Permit Type:
Description: **No Plan Check installed a 4 ton package unit**

Permit Description: **HVAC**
Work Class:
Proposed Use: 1 or 2 Family Dwelling
Permit Number: 020449000005773
Status:
Valuation: $0.00
Contractor Company:
Contractor Name: ROYAL APPLIANCE

ADJOINING PROPERTY FINDINGS

Date:	**11/27/2001**
Permit Type:	
Description:	**Plan Check 25'X12'-6"ADDITION : CONSIST OF 11'-6"X12'-6" BEDRM W/ CLOSET & 12'-6"X13'-6" FAMILY RM ADDITION; ALSO RELOCATE (E) ELECT. METER. *WORK TO BE DONE PER LA CITY TYPE V SHEET**
Permit Description:	**Bldg-Addition**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	010142000006793
Status:	
Valuation:	$23,000.00
Contractor Company:	
Contractor Name:	KEOPS CONSTRUCTION COMPANY

6723 WYNNE AVE

Date:	**8/29/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	Special Equipment
Permit Number:	160419000030691
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	S P ELECTRICAL SERVICE

ADJOINING PROPERTY FINDINGS

Date:	**7/20/2016**
Permit Type:	
Description:	**No Plan Check**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	160419000025542
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	SUNERGY CONSTRUCTION INC

Date:	**10/30/2013**
Permit Type:	
Description:	**No Plan Check replace 3 ton gas electric package unit like for like**
Permit Description:	**HVAC**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130449000011738
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ROWLAND AIR INC

Date:	**10/15/2013**
Permit Type:	
Description:	**No Plan Check Kitchen cabinet remodel for residential buildings (no structural changes). Flooring and paint. Valuation to be verified by Inspector.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	130162000021299
Status:	
Valuation:	$11,500.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

ADJOINING PROPERTY FINDINGS

Date:	**10/8/2013**
Permit Type:	
Description:	**No Plan Check 200 AMP SERVICE UPGRADE.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130412000027889
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	OWNER-BUILDER

Date:	**8/14/2003**
Permit Type:	
Description:	**No Plan Check RE-ROOF, TEAR OFF EXISTING, APPLLY 20 SQS OF 30 YEAR ASPHALT SHINGLES.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	030162000016199
Status:	
Valuation:	$3,500.00
Contractor Company:	
Contractor Name:	DELCID ROOFING

ADJOINING PROPERTY FINDINGS

6724 WYNNE AVE

Date:	**6/4/2013**
Permit Type:	
Description:	**No Plan Check Replace 7 window(s). Same size, location number, type.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	130169000011074
Status:	
Valuation:	$1,750.00
Contractor Company:	
Contractor Name:	PROGRESSIVE BUSINESS CORP

WYNNE AVE # PV1

6656 WYNNE AVE # PV1

Date:	**11/25/2013**
Permit Type:	
Description:	**No Plan Check INSTALL ROOF MOUNTED PHOTO VOLTAIC SYST EM 5.4 KW**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130412000033037
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A1 SOLAR POWER INC

ADJOINING PROPERTY FINDINGS

Date:	**11/22/2013**
Permit Type:	
Description:	**No Plan Check CHANGE OUT 125 AMP SERVICE**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130412000032837
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A1 SOLAR POWER INC

Date:	**11/22/2013**
Permit Type:	
Description:	**No Plan Check SUPPLEMENTAL PERMIT TO CHANGE WORK DESCR IPTION FROM CHANGE OUT 125 AMP SERVICE TO "REPLACE (E) SERVICE WITH 100 AMP MAIN WITH 125 AMP BUSSBAR". NO FEE, DEPT. ERROR.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	130412000132837
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	A1 SOLAR POWER INC

ADJOINING PROPERTY FINDINGS

Date:	**4/12/2010**
Permit Type:	
Description:	**No Plan Check REROOF - TEAR EXISTING & REROOF WITH ONE LAYER OF 30 LB FELT & 30 YR CLASS 'A' FIBERGLASS SHINGLES.**
Permit Description:	**Bldg-Alter/Repair**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling Single Family Residence
Permit Number:	100164000006386
Status:	
Valuation:	$6,490.00
Contractor Company:	
Contractor Name:	SKYCRAFT ROOFING INC

Date:	**7/19/2006**
Permit Type:	
Description:	**No Plan Check 1 CIRCUIT & EQUIPT.**
Permit Description:	**Electrical**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	060414000017598
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	ECONO AIR

Date:	**10/5/2004**
Permit Type:	
Description:	**No Plan Check SEWER REPAIR ENG. #41279-50**
Permit Description:	**Plumbing**
Work Class:	
Proposed Use:	1 or 2 Family Dwelling
Permit Number:	040422000028803
Status:	
Valuation:	$0.00
Contractor Company:	
Contractor Name:	WILLIAMS BROTHERS PLUMBING INC

GLOSSARY

General Building Department concepts

- **ICC:** The International Code Council. The governing body for the building/development codes used by all jurisdictions who've adopted the ICC guidelines. MOST of the US has done this. Canada, Mexico, and other countries use ICC codes books and guides as well. There are a few states who have added guidelines to the ICC codes to better fit their needs. For example, California has added seismic retrofit requirements for most commercial structures.
- **Building Department (Permitting Authority, Building Codes, Inspections Department, Building and Inspections):** This is the department in a jurisdiction where an owner or contractor goes to obtain permits and inspections for building, tearing down, remodeling, adding to, re-roofing, moving or otherwise making changes to any structure, Residential or Commercial.
- **Jurisdiction:** This is the geographic area representing the properties over which a Permitting Authority has responsibility.
- **GC:** General Contractor. Usually the primary contractor hired for any Residential or Commercial construction work.
- **Sub:** Subordinate contracting companies or subcontractors. Usually a "trades" contractor working for the GC. These contractors generally have an area of expertise in which they are licensed like Plumbing, Electrical, Heating and Air systems, Gas Systems, Pools etc. (called "trades").
- **Journeymen:** Sub contractors who have their own personal licenses in one or more trades and work for different contracting companies, wherever they are needed or there is work.
- **HVAC (Mechanical, Heating & Air companies):** HVAC = Heating, Ventilation, and Air Conditioning.
- **ELEC (Electrical, TempPole, TPole, TPower, Temporary Power, Panel, AMP Change, Power Release):** Electrical permits can be pulled for many reasons. The most common reason is to increase the AMPs of power in an electrical power panel. This requires a permit in almost every jurisdiction. Other commons reason for Electrical permits is to insert a temporary power pole at a new construction site. Construction requires electricity, and in a new development, power has yet to be run to the lot. The temporary power pole is usually the very first permit pulled for new development. The power is released to the home owner when construction is complete and this sometimes takes the form of a Power Release permit or inspection.
- **"Pull" a permit:** To obtain and pay for a building permit.
- **CBO:** Chief Building Official
- **Planning Department:** The department in the development process where the building /structural plans are reviewed for their completeness and compliance with building codes
- **Zoning Department:** The department in the development process where the site plans are reviewed for their compliance with the regulations associated with the zoning district in which they are situated.
- **Zoning District:** A pre-determined geographic boundary within a jurisdiction where certain types of structures are permitted / prohibited. Examples are Residential structure, Commercial/Retail structures, Industrial/Manufacturing structures etc. Each zoning district has regulations associated with it like the sizes of the lots, the density of the structures on the lots, the number of parking spaces required for certain types of structures on the lots etc.
- **PIN (TMS, GIS ID, Parcel#):** Property Identification Number and Tax Map System number.
- **State Card (Business license):** A license card issued to a contractor to conduct business.
- **Building Inspector (Inspector):** The inspector is a building department employee that inspects building construction for compliance to codes.
- **C.O.:** Certificate of Occupancy. This is the end of the construction process and designates that the owners now have permission to occupy a structure after its building is complete. Sometimes also referred to as a Certificate of Compliance.

GLOSSARY

Permit Content Definitions

- Permit Number: The alphanumerical designation assigned to a permit for tracking within the building department system. Sometimes the permit number gives clues to its role, e.g. a "PL" prefix may designate a plumbing permit.
- Description: A field on the permit form that allows the building department to give a brief description of the work being done. More often than not, this is the most important field for EP's to find clues to the prior use(s) of the property.
- Permit Type: Generally a brief designation of the type of job being done. For example BLDG-RES, BLDG-COM, ELEC, MECH etc.

Sample Building Permit Data

Date: Nov 09, 2000
Permit Type: Bldg -
New Permit Number: 101000000405
Status: Valuation: $1,000,000.00
Contractor Company: OWNER-BUILDER
Contractor Name:

Description: New one store retail (SAV-ON) with drive-thru pharmacy. Certificate of Occupancy.

RESEDA HIGH SCHOOL
18230 KITTRIDGE ST
RESEDA, CA 91335

Inquiry Number: 4971046.7
JUNE 22, 2017

EDR Environmental Lien and AUL Search

6 Armstrong Road, 4th floor
Shelton, CT 06484
Toll Free: 800.352.0050
www.edrnet.com

EDR Environmental Lien and AUL Search

The EDR Environmental Lien Search Report provides results from a search of available current land title records for environmental cleanup liens and other activity and use limitations, such as engineering controls and institutional controls.

A network of professional, trained researchers, following established procedures, uses client supplied address information to:

- search for parcel information and/or legal description;
- search for ownership information;
- research official land title documents recorded at jurisdictional agencies such as recorders' offices, registries of deeds, county clerks' offices, etc.;
- access a copy of the deed;
- search for environmental encumbering instrument(s) associated with the deed;
- provide a copy of any environmental encumbrance(s) based upon a review of key words in the instrument(s) (title, parties involved, and description); and
- provide a copy of the deed or cite documents reviewed.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This report was prepared for the use of Environmental Data Resources, Inc., and AFX Research, LLC. (AFX) exclusively. This report is neither a guarantee of title, a commitment to insure, or a policy of title insurance. **NO WARRANTY, EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WTH THIS REPORT**. Environmental Data Resources, Inc. (EDR) and AFX exclusively specifically disclaim the making of any such warranties, including without limitation, merchantability or fitness for a particular use or purpose. The information contained in this report is retrieved as it is recorded from the various agencies that make it available. The total liability is limited to the fee paid for this report.

Copyright 2016 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc., or its affiliates, is prohibited without prior written permission.

EDR and its logos are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.

EDR Environmental Lien and AUL Search

TARGET PROPERTY INFORMATION

ADDRESS

RESEDA HIGH SCHOOL
18230 KITTRIDGE ST
RESEDA, CA 91335

RESEARCH SOURCE

Source 1: LOS ANGELES COUNTY RECORDER OF DEEDS

Source 2: CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY

Source 3: UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

PROPERTY INFORMATION

Deed 1

Type of Deed:	
Title is vested in:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Title received from:	
Date Executed:	
Date Recorded:	PRIOR TO 1980
Book:	NA
Page:	NA
Volume:	NA
Instrument#:	NA
Docket:	NA
Land Record Comments:	NA
Miscellaneous Comments:	NA

Legal Description:	TR 17629 LOTS 1 AND 3 AND (EX OF STS) LOT 2 AND (EX OF ST) LOT 4
Current Owner:	LOS ANGELES UNIFIED SCHOOL DISTRICT
Property Identifiers:	2124-001-904
Comments:	NA

ENVIRONMENTAL LIEN

Environmental Lien: Found ☐ Not Found ☒

If Found:

1st Party:	NA
2nd Party:	NA
Dated:	NA
Recorded:	NA
Book:	NA
Page:	NA
Docket:	NA

Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

OTHER ACTIVITY AND USE LIMITATIONS (AULS)

Other AUL's: Found ☐ Not Found ☒

If Found:

1st Party: NA
2nd Party: NA
Dated: NA
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

1st Party: NA
2nd Party: NA
Dated:
Recorded: NA
Book: NA
Page: NA
Docket: NA
Volume: NA
Instrument #: NA
Comments:
Miscellaneous:

EDR Environmental Lien and AUL Search

MISCELLANEOUS

Type of Instrument: NONE IDENTIFIED
1st Party:
2nd Party:
Date Recorded:
Instrument #:
Book:
Page:
Comments:

DEED EXHIBIT

Reseda High School
18230 Kittridge Street
Reseda, CA 91335

Inquiry Number: 4971046.6
June 19, 2017

The EDR Property Tax Map Report

Environmental Data Resources Inc

6 Armstrong Road
Shelton, CT 06484
800.352.0050
www.edrnet.com

EDR Property Tax Map Report

Environmental Data Resources, Inc.'s EDR Property Tax Map Report is designed to assist environmental professionals in evaluating potential environmental conditions on a target property by understanding property boundaries and other characteristics. The report includes a search of available property tax maps, which include information on boundaries for the target property and neighboring properties, addresses, parcel identification numbers, as well as other data typically used in property location and identification.

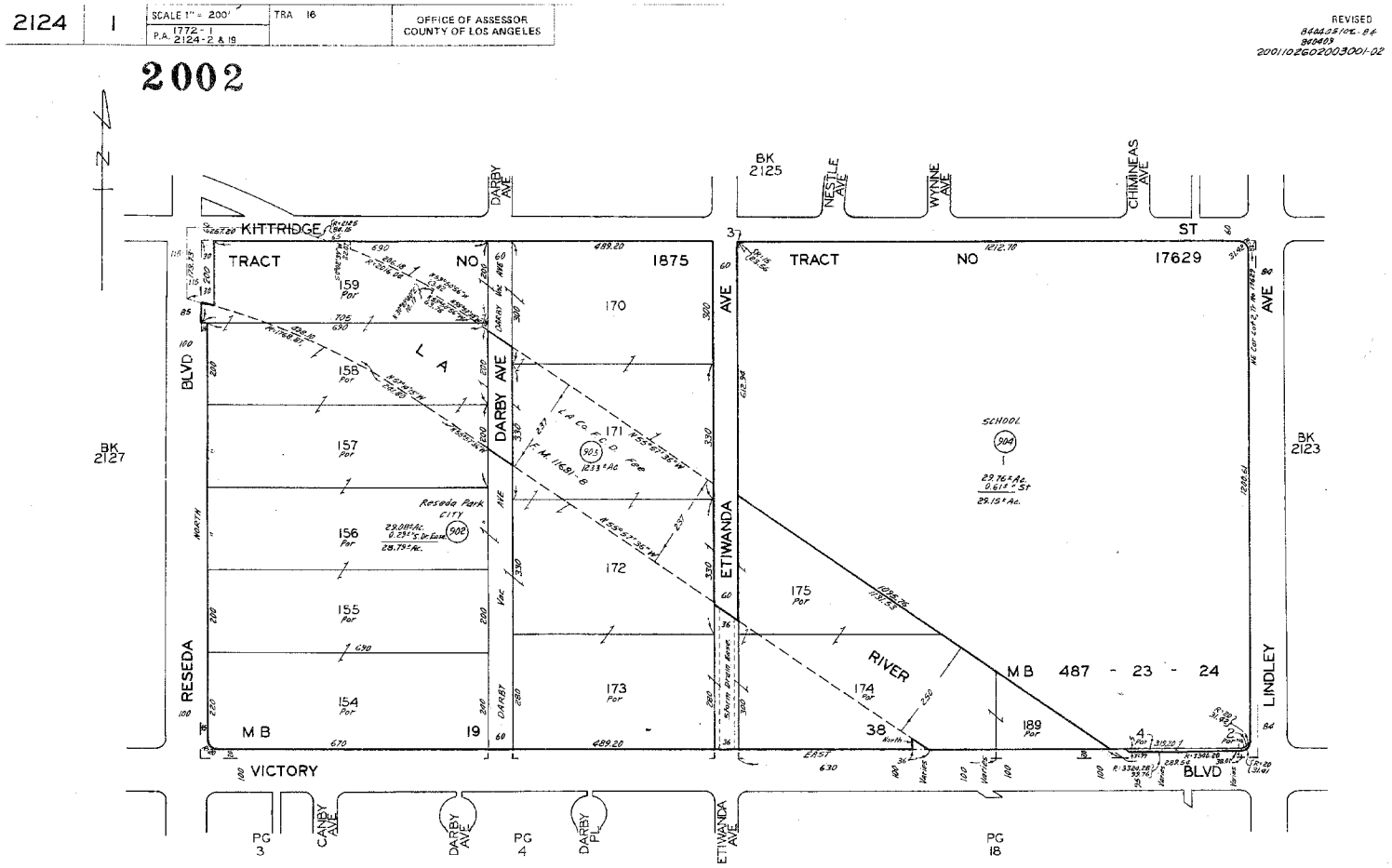
Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

Disclaimer - Copyright and Trademark Notice

This Report contains certain information obtained from a variety of public and other sources reasonably available to Environmental Data Resources, Inc. It cannot be concluded from this Report that coverage information for the target and surrounding properties does not exist from other sources. **NO WARRANTY EXPRESSED OR IMPLIED, IS MADE WHATSOEVER IN CONNECTION WITH THIS REPORT. ENVIRONMENTAL DATA RESOURCES, INC. SPECIFICALLY DISCLAIMS THE MAKING OF ANY SUCH WARRANTIES, INCLUDING WITHOUT LIMITATION, MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE. ALL RISK IS ASSUMED BY THE USER. IN NO EVENT SHALL ENVIRONMENTAL DATA RESOURCES, INC. BE LIABLE TO ANYONE, WHETHER ARISING OUT OF ERRORS OR OMISSIONS, NEGLIGENCE, ACCIDENT OR ANY OTHER CAUSE, FOR ANY LOSS OR DAMAGE, INCLUDING, WITHOUT LIMITATION, SPECIAL, INCIDENTAL, CONSEQUENTIAL, OR EXEMPLARY DAMAGES. ANY LIABILITY ON THE PART OF ENVIRONMENTAL DATA RESOURCES, INC. IS STRICTLY LIMITED TO A REFUND OF THE AMOUNT PAID FOR THIS REPORT.** Purchaser accepts this Report "AS IS". Any analyses, estimates, ratings, environmental risk levels or risk codes provided in this Report are provided for illustrative purposes only, and are not intended to provide, nor should they be interpreted as providing any facts regarding, or prediction orforecast of, any environmental risk for any property. Only a Phase I Environmental Site Assessment performed by an environmental professional can provide information regarding the environmental risk for any property. Additionally, the information provided in this Report is not to be construed as legal advice.

Copyright 2017 by Environmental Data Resources, Inc. All rights reserved. Reproduction in any media or format, in whole or in part, of any report or map of Environmental Data Resources, Inc. or its affiliates is prohibited without prior written permission.

EDR and its logos (including Sanborn and Sanborn Map) are trademarks of Environmental Data Resources, Inc. or its affiliates. All other trademarks used herein are the property of their respective owners.


2124
1
SCALE 1" = 200'
P.A. 1772 - 1
P.A. 2124 - 2 & 19
TRA 16
OFFICE OF ASSESSOR
COUNTY OF LOS ANGELES
REVISED
2002
BK 2125
BK 2127
BK 2123
KITTRIDGE
ST
TRACT NO 1875
TRACT NO 17629
DARBY AVE
NESTLE AVE
WYNNE AVE
CHIMINEAS AVE
RESEDA BLVD
ETIWANDA AVE
LINDLEY AVE
VICTORY BLVD
RIVER
SCHOOL
Reseda Park
M B 487 - 23 - 24
M B 19
CANBY AVE
DARBY PL
PG 3
PG 4
PG 18

APPENDIX E

Office of Environmental Health & Safety Checklist

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Reseda High School

Selection Criteria	Yes	No	Comments
Powerlines/Electromagnetic Fields [CCR, Title 5, 14010(c)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 50-133 kV powerlines/electromagnetic fields within 100 feet of the site?		X	Per EDR.
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 220-230 kV powerlines/electromagnetic fields within 150 feet of the site?		X	Per EDR
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from 500-550 kV powerlines/electromagnetic fields within 350 feet of the site?		X	Per EDR
Railroads [CCR, Title 5, 14010(d)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from railroads within 1,500 feet of the site?		X	Per Quadrangle Canoga Park topographic map
Traffic Noise [CCR, Title 5, 14010(e)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from adjacent roads or freeways that will adversely affect the educational program?		X	Per Quadrangle Canoga Park topographic map
Faults [CCR, Title 5, 14010(f)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an active earthquake fault or fault trace which may be onsite?		X	Per ZIMAS
Flood or Inundation Area [CCR, Title 5, 14010(g)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from flooding or dam inundation?		X	Per ZIMAS
Pipelines and Above Ground Tanks [CCR, Title 5, 14010(h)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from nearby above-ground water or fuel storage tanks?		X	Per LADWP
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from above-ground or underground pipelines located within 1,500 feet of the site?		X	Per NPMS and Gas Company
Liquefaction and Landslides [CCR, Title 5, 14010(i)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from liquefaction or landslides?		X	Per ZIMAS
Traffic and Pedestrian Safety [CCR, Title 5, 14010(l)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an adjacent major arterial street?		X	

Preliminary Environmental Screening of Proposed Project at Existing School Site

Project: Reseda High School

Selection Criteria	Yes	No	Comments
Compatible Zoning [CCR, Title 5, 14010(m)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from the zoning surrounding the site?		X	Per ZIMAS
Light, Wind, Air Pollution [CCR, Title 5, 14010(q)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from light, wind or air pollution?		X	Per lightpollutionmap.info, windfinder.com, and SCAQMD
Easements [CCR, Title 5, 14010(r)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from easements on or adjacent to the site which may restrict access or building placement?		X	Per ZIMAS
Border Zone Property [CCR, Title 5, 14010(t)]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a significant disposal of hazardous waste within 2,000 ft. of the site?		X	Per site reconnaissance and EDR
Cellular Phone Towers [LAUSD Board Resolution]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a cellular phone tower on or adjacent to the site?		X	Per MapMuse
Air Pollution [LAUSD Board Resolution]			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major transportation corridor (freeway, major rail line) within 500 feet?		X	Per Quadrangle Canoga Park topographic map
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a major stationary source of emissions within 500 feet?		X	Per SCAQMD
Is the school on the Priority List of Schools Most at Risk from Air Pollution?		X	Per District
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a high-risk facility previously identified by OEHS?		X	No previously identified high-risk facilities by OEHS
Methane Zone			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from a known methane zone or oil field?		X	Per ZIMAS
Oil Wells			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an onsite oil well?		X	Per DOGGR
Airports			
Will the project create any new significant safety hazards or exacerbate any existing safety hazards to students from an airport within two nautical miles of the site?		X	Per Quadrangle Canoga Park topographic map

APPENDIX F

Vapor Encroachment Screening Matrix

Phase I ESA Vapor Encroachment Conditions (VEC) matrix includes a (1) Search Radius Test, (2) Chemicals of Concern Test (COC), and (3) a Critical Distance Test [1].

(1) Search Radius Test: Are there any known or suspect contaminated properties in the primary area of concern within the corresponding search radii?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(2) Chemicals of Concern Test: Are COC likely to be present within the area of concern for those known or suspect contaminated sites identified based on the Search Distance Test?

☒ Yes ☐ No — If ***No***, then screening for a VEC is complete and no VEC *currently* exists, go to #4. If ***Yes***, then:

(3) Critical Distance Test: A plume test to determine whether or not COC in the contaminated plume(s) may be within the critical distance.

☒ Yes ☐ No — (3a) Is information related to the contaminated(s) plume available (i.e., isoconcentration maps, site drawings, etc.)?

(3b) If ***No***, then a VEC cannot be ruled out; check ***Yes*** in #4 below indicating it is likely a VEC exists. If ***Yes***, then:

☐ Yes ☒ No — (3c) Is the site less than 100 feet to the nearest edge of a contaminated [non-petroleum hydrocarbon] plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

☐ Yes ☒ No — (3d) Is the site less than 30 feet to the nearest edge of a dissolved petroleum hydrocarbon plume(s)? If ***Yes***, then check ***Yes*** in #4 below indicating it is likely a VEC exists.

If the distance from the nearest edge of a contaminated plume to the nearest existing or planned structure on the site is less than 100 feet for non-petroleum hydrocarbon COC, or less than 30 feet for dissolved petroleum hydrocarbons, then it is presumed that a VEC *currently* exists beneath the site. If the distance from the nearest edge of the contaminated plume is greater than or equal to 100 feet for non-petroleum hydrocarbons, or 30 feet for dissolved petroleum hydrocarbon chemicals of concern, then it is presumed unlikely that a VEC *currently* exists beneath the site.

(4) Is it likely that a VEC *currently* exists beneath the site?

☐ Yes ☒ No — If ***No***, then the VEC screening is complete and no further investigation is recommended at this time. If ***Yes,*** Ninyo & Moore recommends performing additional assessment, such as a Tier 2 VEC assessment according to ASTM E 2600-15.

[1] Based on guidance presented in the ASTM E 2600-15 Standard.

APPENDIX G

Qualification of the Environmental Professionals

ANTHONY J. LIZZI, PG, CHG

TECHNICAL ADVISOR/PRINCIPAL GEOLOGIST

EDUCATION

MS, Geology (Hydrogeology), 2007, California State University, Fullerton

BS, Geology, 1986, Concordia University

Pure and Applied Sciences, 1984, Vanier College

REGISTRATIONS AND CERTIFICATIONS

PG 7328 (California)

CHG 799 (California)

Hazardous Materials Management

OSHA

SARA

EXPERIENCE HIGHLIGHTS

Environmental Assessments for Schools

Soil and Groundwater Remediation

Supplemental Site Investigations

Preliminary Environmental Assessments

PCB investigations per TSCA (40 CFR 761)

Landfill and Waste Industries Site Assessments

Underground Storage Tank Program Management

Phase I and Phase II Site Investigations

Mr. Anthony Lizzi is a registered geologist and certified hydrogeologist with a professional career that spans more than 27 years in the areas of site assessment and remediation and groundwater resource analysis. He is an experienced geologist specializing in conducting soil and groundwater investigations of complex sites impacted by soil, soil gas and groundwater contamination, implementing soil and groundwater remediation, preparation and implementation of soil removal/remedial action, and groundwater resource analysis. Mr. Lizzi is responsible for senior technical review of all environmental soil and groundwater documents. As a program manager, he is also experienced in interacting with regulatory agencies (city, county, state agencies [SWRCB and DTSC]) on behalf of clients to assist the agencies to understand the type of impact, and full extent of the contaminant release to expedite the approval of remedial plans, cleanup process and obtain a no further action letter.

REPRESENTATIVE CAREER EXPERIENCE

Former Dry Cleaners, Soil Vapor Extraction Tests, Los Angeles Basin, California: Conducted numerous SVE tests for current and former dry cleaner operations to determine whether PCE had been released to the subsurface. Collected soil gas and soil matrix samples for chlorinated hydrocarbons (PCE and TCE). Remediated PCE-impacted soil using an internal combustion engine operated SVE system in vapor wells down to 70 feet below grade. Used the SVE data to calculate effective radius of influence, intrinsic soil permeability, and projected duration of the cleanup effort.

Former Fuel Service Stations, Dual Phase Extraction Remediation, Los Angeles Basin, California: Principal Geologist conducted many dual phase extraction (DPE) tests to evaluate the viability of vacuum enhancement as a means of increasing liquid production rates from low-permeability soils. DPE remediation were conducted using a high vacuum pressure and high flow pumping system on groundwater monitoring wells at various fuel service stations in Los Angeles County and Orange County. Results of the tests were used for the design of in situ remediation systems to address LNAPL floating on groundwater, dissolved constituents within the groundwater, and volatiles within the vadose zone. Recovered impacted groundwater was pumped in aboveground polytanks whereas the soil vapors were extracted into 55-gallon granular activated carbon (GAC) drums. Mr. Lizzi also obtained site closure for most sites.

Shell Oil, Soil and Groundwater Remediation, Los Angeles, California: Project manager for field program that included the installation of 15 groundwater monitoring wells, 18 soil vapor extraction wells, and four dual completion air sparge and vapor wells at a former gas station in which free-product has migrated more than 250 feet downgradient of the site. Managed design and implementation of multiphase remediation in accordance with the Los Angeles Regional Water Control Board requirements. Provided oversight of funding and expenditures, compliance with contracted scope of work, preparation of cost estimates and contract modifications, and maintained routine communication with LARWQCB personnel.

State of California Department of General Services, Phase II Subsurface Investigation, Hollywood, California: Project manager for a Phase II subsurface investigation at a downtown parcel to assess recognized environmental conditions. Managing development of a field sampling and analysis program to evaluate the nature of any hazardous materials or substances that may be present in soil, soil gas, and groundwater at the subject site.

Air Products and Chemicals, Soil Vapor Extraction Pilot Testing, Vernon, California: Conducted numerous pilot-scale SVE tests to evaluate the technology's applicability at sites with petroleum and chlorinated hydrocarbons. Analyzed test data. Obtained site closure from the Vernon Fire Department.

REPRESENTATIVE CAREER EXPERIENCE (continued)

Port of Long Beach, On-Call Environmental Consulting Services Contract: Under the new, three-year-term contract, Mr. Lizzi is the Principal Geologist for the environmental services being performed in the areas of, but not limited to, identification of hazardous materials used in the construction of buildings and appurtenance, including, but not limited to, asbestos, PCBs, and lead-based paint, or stored within or outside of any facilities; physical and chemical sampling and analyses for detection and delineation of surface and subsurface contamination of soil and groundwater; and small scale removal and/or abatement of asbestos-containing materials and lead-based paint from structures scheduled for demolition or renovation.

Los Angeles World Airports (LAWA), Los Angeles International Airport (LAX), Pedestrian Tunnel Between Terminals 6 & 7 Historical Environmental Reports Review, Los Angeles, California: Principal Geologist retained for reviewing historical environmental soil, air and groundwater reports and analytical data obtained for the pedestrian tunnel with respect to health risk assessment issues. The investigations were conducted to determine whether the subsurface conditions have been impacted with petroleum hydrocarbons resulting from site operations at LAX facilities (underground fuel pipelines). The focus of the review was on factors that would have been or likely to impinge on enhancement or mitigation of exposures relative to reasonably complete exposure pathways involving occupational and visitor/pedestrian receptors.

Various Clients, Underground Storage Tank Program Management, Various Service Station Sites, California: Program manager for multiple service station sites, consisting of site investigations, installing groundwater and remediation wells, soil vapor extraction system pilot-testing, full-scale system design and installation, remediation system operations and maintenance, and preparation of work plans and reports. Projects were completed as part of the California UST Fund reimbursement program.

Los Angeles Unified School District (LAUSD), Carson Gore Academy, Soil and Groundwater Remediation, Los Angeles, California: In 2013, Project Manager for the Soil Remediation and Environmental Monitoring of two large soil excavations as part of the DTSC-approved remedial action plan to excavate VOC- and TPH-impacted soil down to approximately 45 feet below ground surface (bgs), totaling approximately 20,000 cubic yards. Due to the depth of the excavation and proximity to adjacent private and public right-of-ways, an engineered shoring system was constructed. Project tasks involved oversight of the shoring system installation of soldier pile and board-lagging techniques; supervision of the application of Liquid Boot® along the eastern shoring wall of excavation to approximately 5 feet bgs to prevent potential off-site VOC impacts from migrating onto the site and of the application of BIOX® on the bottom of excavation in the capillary fringe area to address the residual impact; and oversight of the post-excavation soil sampling to confirm that the cleanup goals were met, as well as supervised the quarterly sampling of soil gas and groundwater monitoring wells under DTSC oversight and the soil vapor extraction (SVE) well installation and pilot tests to determine radius of influence and level of vacuum response. Also oversaw the sampling of indoor air in the four buildings to determine the potential presence of tetrachloroethene (PCE) and its degradation products and determine whether there was any difference between the indoor air and outdoor air sampling results; performed senior review of environmental technical documents; and obtained no further action letter from DTSC.

Los Angeles Department of Water and Power (LADWP), On-Call Environmental Consulting Services Contract Los Angeles, California: Principal Geologist for environmental projects for this on-call contract at various sites throughout the LADWP footprint. Reviewed Phase I ESA reports on numerous sites in Southern California ranging from vacant, undeveloped land to industrial properties. Managed the Phase II field activities at numerous LADWP sites for soil, soil gas, and groundwater investigations. Performed senior review of technical documents.

Former Fuel Service Stations, Dual Phase Extraction Remediation, Los Angeles Basin, California: Conducted many dual extraction tests to evaluate the viability of vacuum enhancement as a means of increasing liquid production rates from low-permeability soils. DPE remediation were conducted using a high vacuum pressure and high flow pumping system on groundwater monitoring wells at various fuel service stations in Los Angeles and Orange counties. Results of the tests were used for the design of in situ remediation systems to address nonaqueous phase liquid hydrocarbon floating on groundwater, dissolved constituents within the groundwater, and volatiles within the vadose zone. Recovered impacted groundwater was pumped in aboveground polytanks whereas the soil vapors were extracted into 55-gallon granular activated carbon (GAC) drums. Obtained site closure for most sites.

PATRICK CULLIP, EIT

TASK LEADER: FACILITIES ENGINEERING

EDUCATION

B.S. Mechanical Engineering, Loyola Marymount University, Los Angeles

REGISTRATIONS AND CERTIFICATIONS

Loss Prevention System (LPS)
OSHA HAZWOPER with annual 8-hour refreshers
OSHA HAZWOPER Site Supervisor Training
OSHA Excavation Competent Person Certification
First Aid and CPR Training
BNSF Contractor Orientation Safety certified

EXPERIENCE HIGHLIGHTS

Phase I Environmental Site Assessments
Sampling Surveys
1166 Soil Monitoring
Preliminary Environmental Assessment

Mr. Patrick Cullip has over three years experience performing environmental remediation, operations and maintenance (O&M), remediation system installation, groundwater/soil vapor sampling, well installation, underground storage tank (UST) removal, soil contamination removal, dual-phase extractions, aerially-deposited lead (ADL) sampling, geological and geotechnical logging, quarterly groundwater monitoring reports, pilot test reports, design, and oversight projects; conducting environmental site assessments (ESAs) and feasibility testing; and evaluating regulatory compliance.

REPRESENTATIVE PROJECT EXPERIENCE

Port of Los Angeles, Wilmington, California: Senior Staff Environmental Engineer, conducted groundwater monitoring on numerous existing monitoring wells, using hand bailers.

Long Beach Unified School District, Long Beach, California: Senior Staff Environmental Engineer, collected soil samples using hand-auger and direct-push methods, to assess lead and pesticide contamination from lead based paint and termiticides along the edges of classroom and administrative buildings at Jordan High School, and prepared reports for government agencies. Sample results were used to determine the extent of contamination and potential associated health risks to field personnel participating in planned remodeling/demolition activities. Prepared the preliminary environmental assessment (PEA) report for sampling and associated remedial action work plan (RAW) for required soil remediation.

City of Los Angeles, Temescal Canyon Park Storm Water Project, Pacific Palisades, California: Senior Staff Environmental Engineer, conducted South Coast Air Quality Management District Rule 1166 air monitoring of soil being excavated for future storm water holding tank. The soil consists of undocumented fill found to contain petroleum hydrocarbons.

Caltrans, Various Locations, Southern California: Senior Staff Environmental Engineer, collected soil samples, using hand-auger methods, of roadside soils to assess aerially deposited lead (ADL) impacts of soil from years of contamination from leaded gasoline. Sample results were used to determine the waste classification for proper disposal and handling of road and highways improvements.

Phase I ESAs – Various Sites, Southern California: Field Manager, performed numerous Phase I ESAs of commercial, industrial, and residential properties throughout Southern California for various financial institutions, land developers, and government agencies. The Phase I ESAs included reviewing regulatory files of various government agencies to evaluate the extent and type of impacts at sites, conducting site walks and owner/operator interviews, and preparing reports.

Los Angeles Unified School District (LAUSD), Los Angeles, California: Oversaw groundwater/soil vapor extraction tests at various sites to determine extent of contamination. Field Manager for a complex site excavation for future school; tasks included lead/hydrocarbon soil testing, hazardous/non-hazardous soil removal, and air quality monitoring. Directed cleaning/removal of USTs, soil contamination chase-out, and removal. Supervised installation of groundwater/soil vapor monitoring wells. Directed maintenance on groundwater/soil vapor systems. Organized, managed, and operated numerous dual-phase extraction tests to remove site contaminants. Executed various O&M visits for existing soil vapor and groundwater remediation systems. Tracked effluent readings for various sites to ensure permitting compliance. Prepared dozens of environmental reports including quarterly groundwater monitoring reports, pilot tests, site assessments, remedial action plans, and RECAPs.

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

5710 Ruffin Road | San Diego, California 92618 | p. 858.576.1000

SAN DIEGO | IRVINE | LOS ANGELES | FONTANA | OAKLAND | SAN FRANCISCO | SACRAMENTO

SAN JOSE | PHOENIX | TUCSON | PRESCOTT | LAS VEGAS | DENVER | BROOMFIELD | HOUSTON

www.ninyoandmoore.com

APPENDIX H

Draft Preliminary Endangerment Assessment – Equivalent Report

DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT – EQUIVALENT REPORT

RESEDA HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT 18230 KITTRIDGE STREET RESEDA, CALIFORNIA 91335

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

August 7, 2018

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

DRAFT PRELIMINARY ENDANGERMENT ASSESSMENT - EQUIVALENT REPORT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA 91335

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

August 7, 2018

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Prepared by:

Justin King — Date:
Project Manager

Reviewed by:

Peter Shair, P.G. — Date:
Project Geologist

TABLE OF CONTENTS

Executive Summary viii
1.0 Introduction 1
1.1 PEA-E OBJECTIVES 1
1.2 SCOPE OF WORK 2
2.0 Summary of Site Background 4
2.1 Site Description 4
2.2 Site Background 4
2.3 Adjacent Property History 4
2.4 Phase 1 ESA (2017) 4
2.5 PEA-E Work Plan (2017) 5
3.0 Environmental Setting 6
3.1 Regional Physiographic Setting 6
3.2 Regional Geology 6
3.3 Regional Hydrogeology 7
4.0 Areas of Concern (AOCs) 9
5.0 Sampling Activities 10
5.1 Sampling Strategy 10
5.2 Preliminary Screening Levels 12
5.3 Pre-Field Activities 13
5.4 Sampling Procedures 14
5.5 Equipment Decontamination 16
5.6 Investigative Derived Waste 16
6.0 Results 17
6.1 Introduction 17
6.2 Soil Sampling Results 17
6.3 Soil Vapor Sampling Results 20
6.4 Delineation of Impacts in Soil 21
6.5 Delineation of Impacts in Soil Vapor 22
7.0 Field Variances 23

8.0 Human Health Screening Evaluation 24
8.1 Soils 24
8.2 Soil Vapor 25
9.0 Conclusions and Recommendations 27
9.1 Conclusions 27
9.2 Recommendations 28
10.0 References 29

TABLES

TABLE 1 SAMPLING STRATEGY PLAN
TABLE 2 ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
TABLE 3 ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
TABLE 4 ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
TABLE 5 ANALYTICAL RESULTS FOR DIOXINS AND FURANS IN SOIL
TABLE 6 ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
TABLE 7 ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TABLE 8 ANALYTICAL RESULTS FOR TITLE 22 METALS IN SOIL
TABLE 9 SOIL VAPOR SAMPLING ANALYTICAL RESULTS
TABLE 10 SUB-SLAB SAMPLING ANALYTICAL RESULTS
TABLE 11 STEP-OUT SOIL SAMPLING
TABLE 12 ESTIMATED VOLUMES OF IMPACTED SOIL

FIGURES

FIGURE 1 SITE LOCATION MAP
FIGURE 2 BUILDING LOCATIONS
FIGURE 3 SOIL AND SOIL VAPOR SAMPLE LOCATIONS
FIGURE 4 SOIL AND SOIL VAPOR SAMPLE LOCATIONS
FIGURE 5 SOIL SAMPLE LOCATIONS
FIGURE 6 SOIL SAMPLE LOCATIONS
FIGURE 7 SOIL SAMPLE LOCATIONS
FIGURE 8 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B1
FIGURE 9 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES – AOC1-B6 AND AOC1-B8
FIGURE 10 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B10
FIGURE 11 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B22
FIGURE 12 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES - AOC1-B58 AND AOC1-B64
FIGURE 13 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B34
FIGURE 14 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES – AOC1-B77, AOC1-B78, AND AOC1-B81
FIGURE 15 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY – AOC1-B100
FIGURE 16 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY – AOC1-B91
FIGURE 17 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY – AOC1-B108
FIGURE 18 SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY – AOC1-B112
FIGURE 19 AOC4 SOIL VAPOR SAMPLE LOCATIONS

APPENDICES

APPENDIX A PRELIMINARY SITE ASSESSMENT – EQUIVALENT WORK PLAN
APPENDIX B BORING LOGS
APPENDIX C WASTE MANIFESTS
APPENDIX D SOIL ANALYTICAL LABORATORY REPORTS
APPENDIX E SOIL VAPOR ANALYTICAL LABORATORY REPORTS
APPENDIX F PROUCL OUTPUT

ACRONYMS

AIN	Assessors Identification Number
AOCs	Areas of Concern
bgs	below ground surface
CMP	Comprehensive Modernization Project
cc/min	cubic centimeters per minute
CoC	Chain of Custody
COC	Chemical of Concern
DOGGR	Department of Conservation of Oil, Vapor and Geothermal Resources
DTSC	Department of Toxic Substances Control
EDR	Environmental Data Resources
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
ESA	Environmental Site Assessment
HHSE	Human Health Screening Evaluation
ft	feet
kg/dl	kilograms per deciliter
IDW	investigation derived waste
LAUSD	Los Angeles Unified School District
LBP	Lead Based Paint
mg/kg	milligrams per kilogram
ND	Non-detect
OCP	Organochlorine Pesticides
PCBs	Polychlorinated biphenyl's
PCE	tetrachloroethene
PEA-E	Preliminary Endangerment Assessment – Equivalent
pg/g	picograms per gram
p/L	picocuries per liter
PSL	Preliminary Screening Level
QA/QC	quality assurance/quality control
RAW	Removal Action Workplan
RCRA	Resource Conservation and Recovery Act
RECs	Recognized Environmental Conditions
Report	Preliminary Endangerment Assessment – Equivalent Report
RSL	Risk Based Screening Level
Site	Reseda High School
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure

TPH	Total Petroleum Hydrocarbons
USGS	United States Geological Survey
UCL	Upper Confidence Limit
µg/L	micrograms per liter
µg /m^3	micrograms per cubic meter
Work Plan	Preliminary Endangerment Assessment – Equivalent Work Plan
VOCs	volatile organic compounds
2,3,7,8-TCDD	2,3,7,8-tetrachlorodibenzodioxin

EXECUTIVE SUMMARY

This document presents the results of a *Preliminary Endangerment Assessment – Equivalent Report* (Report) conducted in support of a Comprehensive Modernization Project (CMP) for the Los Angeles Unified School District's (LAUSD) Reseda High School (Site). This report has been prepared for LAUSD to present a summary of the sampling and analysis activities conducted for the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California.

The Preliminary Endangerment Assessment-Equivalent (PEA-E) was conducted to assess environmental conditions at selected areas within the CMP footprint, identified by Ninyo & Moore's Phase 1 conducted in 2017, prior to the beginning of demolition, modernization and construction activities. Ninyo & Moore identified existing Recognized Environmental Conditions (RECs), historical RECs and controlled RECs at the Site. The PEA-E was conducted in accordance with the PEA-E Work Plan (Work Plan) that was prepared by Ninyo & Moore on behalf of LAUSD. It was also conducted in accordance with applicable regulatory guidance, including the *Preliminary Environmental Assessment Guidance Manual* prepared by the California Department of Toxic Substances Control (DTSC).

The Work Plan identified the following five areas of concern (AOCs);

- AOC1 - Lead-based paint, OCPs and PCBs may be present in shallow soil based on the age of the current site buildings. Arsenic may be present in shallow soil due to LAUSD's former standard practice of applying herbicides for weed control containing metal prior to paving.
- AOC2 - Potential impacts in shallow soil from PCBs near the on-site pad-mounted transformer that was installed prior to 1979.
- AOC3 - Potential impacts in shallow soil from dioxins and furans near the existing (inactive) incinerator that was previously used to burn solid waste.
- AOC4 – Potential impacts in soil from TPH, metals, PCBs and VOCs near the inactive clarifier associated with the former automotive shop adjacent to the Industrial Arts Building. Evaluate potential impacts in soil vapor from VOCs near the clarifier.
- AOC5 – Potential impacts in soil vapor from VOCs near the suspected location of historical spray paint booths.

At AOC1, soil from 107 initial boring locations was analyzed for lead and arsenic to a maximum depth of 3.5-feet (ft) below ground surface (bgs). Soil from 10% of the initial borings at 0.5-ft bgs was analyzed for PCBs. Soil samples from 0.5-ft bgs were composited by the analytical laboratory and analyzed for OCPs. Each sample was a composite of soil from 0.5 ft bgs in four to six adjacent borings or borings surrounding a building. Based on the analytical results ninety-two step-out borings to a maximum depth of 3.5-ft bgs were completed to delineate arsenic exceedances and

four step-out borings to a maximum depth of 2.5-ft bgs were completed to delineate lead exceedances in soil.

At AOC2, soil from two borings was analyzed for PCBs to a maximum depth of 0.5-ft bgs.

At AOC3, soil from one boring was analyzed for dioxins and furans to a maximum depth of 0.5-ft bgs.

At AOC4, soil from two initial boring locations was analyzed for VOCs, TPH, PCBs, and Title 22 Metals to a maximum depth of 5-ft bgs. Soil vapor probes were installed and analyzed for VOCs at 5- and 15-ft bgs at the two initial boring locations. Based on the soil vapor analytical results soil vapor probes were installed and sampled for VOCs at 5- and 15-ft bgs at eleven step-out boring locations to delineate PCE. Three sub-slab soil vapor probes were also installed within the western portion of the industrial arts building to evaluate VOCs immediately beneath the foundation slab.

At AOC5 soil vapor probes were installed at 5- and 15-ft bgs at two boring locations. The soil vapor probes were sampled and analyzed for VOCs.

The following conclusions were derived from the soil and soil vapor sampling and analyses conducted at the Reseda High School:

- PCBs were not detected above their respective laboratory reporting limits in any of the soil or soil vapor samples analyzed. Therefore, PCBs are not considered a Site chemical of concern (COC).
- Five OCPs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane, and dieldrin) were detected above their respective reporting limits in one or more composite soil samples. OCP concentrations were all below preliminary screening levels (PSLs); therefore, OCPs are not considered Site COCs.
- The measured concentrations of dioxins/furans in the soil samples did not exceed PSLs. Therefore, dioxins and furans are not considered a Site CoC.
- TPH-g and TPH-d were not detected in the soil samples collected at the Site. TPH-o was detected above the laboratory reporting limit in eleven soil samples but was below the PSLs. Therefore, TPHs are not considered Site COCs.
- Title 22 metals were below PSLs except for arsenic and lead.
- Lead results from soil samples collected in the proposed development areas are below the PSL (80 mg/kg) in 103 of the 107 initial boring locations. The highest exceedance of lead was 170 mg/kg at location AOC1-B6 at 0.5 ft bgs. Step-down and lateral step-out sampling was conducted until the detected lead concentrations were less than the PSL of 80 mg/kg, a building foundation was reached, access was limited, or a subsurface utility was encountered.
- Arsenic results from soil samples collected in the proposed development area are below the PSL (12 mg/kg) in 95 of the 107 initial boring locations. The highest exceedance of

arsenic at the initial sample locations was 32 mg/kg at AOC1-B10 at 0.5-ft bgs. Step-down and lateral step-out sampling was conducted until the detected arsenic concentrations were less than the PSL of 12 mg/kg, a building foundation was reached, access was limited, or a subsurface utility was encountered.

- An estimated 266 cubic yards of soil are impacted by lead and/or arsenic based on the results of the field investigation. Approximately 261 cubic yards can be managed as non-hazardous waste and approximately 5 cubic yards can be managed as non-RCRA hazardous waste.
- PCE was detected above the current PSL in soil vapor at 5- and 15-ft bgs at AOC4-SV1, AOC4-SV3, AOC4-SV4, AOC4-SV8, AOC4-SV10 and AOC4-SV11. PCE was detected above the current PSL in soil vapor at sub-slab locations AOC4-SS1, AOC4-SS2 and AOC4-SS3. The elevated PCE soil-vapor impact has been delineated to the west by AOC4-SV6 and AOC4-SV9; to the east by AOC4-SV5; to the south by AOC4-SV12, and; to the north by AOC4-SV13. PCE in soil vapor is likely to represent a potential risk at the Site.
- Benzene was detected above the current PSL in soil vapor at 15-ft bgs at AOC4-SV12, but benzene was not detected in the 5 ft bgs sample at the same location. This likely indicates that benzene is degrading as it migrates through the soil column and that benzene in soil vapor at AOC4-SV12 does not represent a potential risk. Benzene was detected above the current PSL in soil vapor at sub-slab locations AOC4-SS1, AOC4-SS2 and AOC4-SS3. Overall, benzene in sub-slab soil vapor at the Site does indeed exceed PSLs but is only likely to represent a slight risk above background exposures.

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address shallow soils impacted with lead and/or arsenic.
- The RAW should also address PCE and benzene soil vapor impacts above the current PSLs.

1.0 INTRODUCTION

This document presents the results of a *Preliminary Endangerment Assessment – Equivalent Report* (Report) conducted in support of a Comprehensive Modernization Project (CMP) for the Los Angeles Unified School District's (LAUSD) Reseda High School (Site). This report has been prepared for LAUSD to present a summary of the sampling and analyses activities conducted for the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California (**Figure 1**). **Figure 2** shows the area of the high school subject to the CMP and the buildings/portable trailers that will be removed.

The Preliminary Endangerment Assessment-Equivalent (PEA-E) was conducted to assess environmental conditions at selected areas within the CMP footprint prior to the beginning of demolition, modernization and construction activities. LAUSD commissioned Ninyo & Moore to prepare a Phase 1 Environmental Site Assessment (ESA) for the Site (Ninyo & Moore, 2017a). Based on the findings of the ESA, LAUSD recommended that a PEA-E be performed at the Site.

The PEA-E was conducted in accordance with the Preliminary Environmental Assessment-Equivalent Work Plan (Work Plan) that was prepared by Ninyo & Moore on behalf of LAUSD (Ninyo & Moore, 2017b). It was also conducted in accordance with applicable regulatory guidance, including the *Preliminary Environmental Assessment Guidance Manual* (DTSC, 2015a) prepared by the California Department of Toxic Substances Control (DTSC). Field work was conducted in areas within the planned CMP footprint including Site buildings, a pad-mounted transformer, an existing (non-operational) incinerator, an existing (non-operational) clarifier, and historical paint booths. The field program included soil and soil vapor sampling and analyses. A human health screening evaluation (HHSE) was conducted for the Site based on the soil and soil vapor analytical data generated during the field investigation.

1.1 PEA-E OBJECTIVES

The objective of the PEA-E was to document subsurface environmental conditions at the Site and assess potential human health risks based on the analytical data generated during the field investigation. Specific objectives of the PEA-E are presented below.

- Investigate Areas of Concern (AOCs) identified in the Work Plan (Ninyo & Moore, 2017b) based on recognized environmental conditions (RECs) stated in the ESA (Ninyo & Moore, 2017b).
- Evaluate potential health risk to students and faculty in the subsurface that will be disturbed during the proposed construction activities.

- Evaluate the general extent of soil and soil vapor impacts in order to determine immediate potential health threats, and to scope future impacted media removal and remediation actions.

1.2 SCOPE OF WORK

The PEA-E scope of work consisted of the following:

- Preparation and distribution of an English and Spanish fieldwork notice. The fieldwork notice was distributed to line-of-sight neighbors, faculty, parents of Reseda High School students and posted on the school fence line.
- Notification of planned subsurface investigation to DigAlert. Locations were marked in the field using chalk-based paint and a geophysical survey was conducted prior to advancement of soil borings.
- Preparation of a Site-Specific Health and Safety Plan.
- Implementation of the Work Plan (Ninyo & Moore, 2017b) as follows:
  - Completion of 115 soil borings (AOC1-B1 through AOC1-B115) to a maximum depth of 2.5-feet (ft) below ground surface (bgs) to evaluate potential impacts in shallow soil from lead-based paint (LBP), arsenic, organochlorine pesticides (OCPs), and polychlorinated biphenyls (PCBs) near the Site buildings. Per the Work Plan, 10% of the samples were analyzed for PCBs and four to six samples were composited for OCP analysis. The 0.5-ft depth soil sample was analyzed and the step-down samples at 1.5-ft and 2.5-ft depths were placed on hold at the analytical laboratory. Multiple step-out sampling events were conducted based on exceedances encountered during the primary sample event.
  - Completion of two soil borings (AOC2-B1 and AOC2-B2) to a depth of 2.5-ft bgs to evaluate potential impacts in shallow soil from PCBs near a pad-mounted transformer. The 0.5-ft depth sample was analyzed and the step-down samples at 1.5-ft and 2.5-ft were placed on hold.
  - Completion of one soil boring (AOC3-B1) to a depth of 2.5-ft bgs to evaluate potential impacts in shallow soil from dioxins and furans near an existing (non-operational) incinerator. The 0.5-ft sample was analyzed and the step-down samples at 1.5-ft and 2.5-ft were placed on hold.
  - Completion of two soil borings (AOC4-B1 and AOC4-B2) to depth of 15-ft bgs to evaluate potential impacts in soil from total petroleum hydrocarbon (TPH), Title 22 Metals, PCBs, and volatile organic compounds (VOCs) near an existing (non-operational) clarifier. The 5-ft depth soil sample was analyzed, and the 10-ft and 15-ft samples were placed on hold.
  - Installation of two dual-nested soil vapor probes (AOC4-SV1 and AOC4-SV2) at depths of 5- and 15-ft bgs near the AOC4 boring locations to evaluate potential impacts in soil vapor from VOCs near the clarifier. The dual-nested soil vapor probes were purged and sampled by a certified mobile laboratory. Three subsequent step-out probe

installation and vapor sampling events were conducted based on the vapor data generated during the initial vapor sample event.

  - Installation of two dual-nested soil vapor probes (AOC5-SV1 and AOC5-SV2) at depths of 5- and 15-ft bgs to evaluate potential impacts in soil vapor from VOCs near suspected locations of historical spray paint booths. The dual nested soil vapor probes were purged and sampled by a mobile lab.

- Conducted a human health screening evaluation based on the analytical data generated during the field investigation.
- Preparation of the PEA-E Report.

2.0 SUMMARY OF SITE BACKGROUND

2.1 SITE DESCRIPTION

The Site is located at 18230 Kittridge Street, Reseda, CA 91335. The campus is bound to the south by Victory Boulevard and the Los Angeles River, Etiwanda Avenue to the west, Kittridge Street to the north, and Lindley Avenue to the east (**Figure 1**). The property is identified by the Los Angeles County Assessor's Office with Assessor's Identification Number (AIN) 2124-001-904. The approximate size of the school is 29.15 acres. The school was established in 1955.

The Site is developed with buildings associated with Reseda High School (**Figure 2**). There are currently sixteen permanent and portable classroom structures, athletic fields, and playground areas. The Site vicinity is primarily occupied by single-family residential structures to the north and east, bound by Reseda Park to the west and the Los Angeles River to the south.

2.2 SITE BACKGROUND

The results of the historical research for the Site conducted by Ninyo & Moore indicate that the Site consisted of agricultural land with some structures in the northeast corner from the 1920s to 1954/1955, when the Site was first developed with school buildings/improvements (Ninyo & Moore, 2017a). Based on aerial photographs additional structures were added to the Site as follows: 1) structures were added to the southwest portion of the Site between 1995 and 2002; 2) structures were added to the northeast portion of the Site between 2002 and 2005; and 3) structures were added to the southeast portion of the Site between 2005 and 2009. The Site address has been listed as Reseda High School since 1956. Grey Continuation High School is also listed as an occupant at the same address.

2.3 ADJACENT PROPERTY HISTORY

The adjacent properties were agricultural and/or undeveloped land since the 1920s. Reseda Park was established west of the Site in the 1940s. Residential structures first appear near the Site in the 1920s. Large residential communities were built to the north and east of the Site in the 1950s. Heavy residential development to the south of the Site, on the other side of the Los Angeles River, first appear in the 1960s. A summary of the off-site properties/facilities that Ninyo & Moore evaluated for potential impact to soil and/or groundwater at the Site can be found in the ESA (Ninyo & Moore, 2017a).

2.4 PHASE 1 ESA (2017)

A Phase 1 ESA was performed at the Site by Ninyo & Moore in 2017. Ninyo & Moore identified existing RECs, historical RECs and controlled RECs were identified at the Site. The ESA included a review of the physical setting and background information, a site reconnaissance to visually

observe Site conditions, a review of regulatory agency databases (federal, state, tribal and local), an Environmental Data Resources (EDR) standard environmental database search report, historical research (aerial photographs, topographic maps, Sanborn maps, building department records, etc.), a preliminary vapor encroachment screening to evaluate the potential for vapor encroachment conditions, and an interview with the property owner representative regarding the environmental status of the Site. No other significant assumptions were made during the presentation of the report (Ninyo & Moore, 2017a).

The ESA concluded the following:

- The former agricultural use with some structures in the northeast portion of the Site.
- One existing but inactive clarifier associated with the former automotive shop adjacent to the south of the Industrial Arts building (including a potential vapor encroachment condition).
- The former presence of spray paint booths on-site (including a potential vapor encroachment condition) based on the potential for releases from former leaks.
- Based on the former use of the incinerator to burn solid wastes, the likely presence of burnt material surrounding the incinerator.
- Based on the age of the current Site buildings, persistent termiticides (organochlorine pesticides or OCPs) and lead (from LBP) may be present in shallow soil around building foundations.
- PCB-containing materials may be present from the on-site pad mounted transformer installed prior to 1979.
- Arsenic in shallow soil underneath AC pavement may be present due to the LAUSD's former standard practice of applying herbicides containing this metal prior to paving.
- Based on the results of the vapor encroachment screening matrix (VESM) and information obtained during this Phase I ESA, a vapor encroachment condition (VEC) cannot be ruled out beneath the site.

The ESA recommended additional environmental assessment for the Site based on the findings, including; 1) assess PCBs, OCPs, arsenic, and lead in shallow soil at locations that future construction is planned; and 2) conduct soil and soil vapor investigations near the inactive clarifier, former spray booths, or incinerator if construction or demolition activates are planned in these areas.

2.5 PEA-E WORK PLAN (2017)

A PEA-E work plan was prepared by Ninyo and Moore in 2017 to evaluate the RECs that were reported in the ESA. The scope of work presented in the work plan consisted of collecting soil and soil vapor samples in areas of planned demolition, modernization, and construction activities associated with the CMP. The work plan was prepared to outline the field procedures and sampling and analysis program that would be used to conduct the PEA-E investigation at the Site. The PEA-E Work Plan was approved by LAUSD and is presented in **Appendix A**.

3.0 ENVIRONMENTAL SETTING

The information presented in this section is partially summarized from the ESA Report previously prepared for the Site (Ninyo & Moore, 2017a).

3.1 REGIONAL PHYSIOGRAPHIC SETTING

3.1.1 Topographic Setting

According to the 2012 United States Geological Survey (USGS) Los Angeles Quadrangle, the center of the school has an approximate latitude (North) of 34.188711 and longitude (West) of -118.529365. The school elevation is on average approximately 725 feet above mean sea level. The subject school property is essentially flat, with a slight surface gradient toward the east/southeast.

3.1.2 Nearest Surface Water Body

The nearest surface water body to the school is the Reseda Park Lake, located approximately 500 feet west of the western edge of the school property. A concrete-lined portion of the Los Angeles River channel is adjacent to the southern property line of the school. The Los Angeles River flows southeast toward the Pacific Ocean.

3.2 REGIONAL GEOLOGY

The 1992 Dibblee Geological Foundation Map "DF-36 Geologic Map of the Oat Mountain and Canoga Park (north ½) Quadrangle" shows the school property and surrounding vicinity to be underlain with alluvium (Qa) consisting of alluvial gravel, sand and clay of valley and floodplain areas.

3.2.1 Nearest Known Earthquake Faults

The nearest fault to the school site is the Northridge Fault, which is greater than six miles away.

3.2.2 Potential for Liquefaction and Landslides

According to the State of California Special Studies Zones Canoga Peak Quadrangle Map (Dated February 1, 1998) from the California Department of Conservation, the school property is within a liquification zone. These zones are classified as "areas where historical occurrence of liquefaction, or local geological, geotechnical and groundwater conditions indicate a potential for permanent ground displacements such that mitigation as defined in Public Resources Code Section 2693(c) would be required." The school property does not fall within an identified earthquake-induced landslide zone.

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on February 23, 2018, the school property is within a potentially liquefiable zone. This is based on soil type and historical depth to groundwater, not site-specific

investigation. The school property is not within a potential landslide area per the City of Los Angeles ZIMAS database.

3.2.3 Potential for Flooding

The school property is not located within a designated 100-year or 500-year flood plain, according to the City of Los Angeles' Flood Hazard Map, dated August 9, 2016 (Prepared by Land Development & GIS Division, Bureau of Engineering, Dept. of Public Works).

3.2.4 Radon

The California Geologic Survey's Radon Potential Zone Map (prepared for the California Department of Health Services, Environmental Health Division, for Southern Los Angeles County dated January 2005) indicates the school property is within an area estimated to have low potential for indoor radon levels above 4.0 Picocuries per liter (P/L). Radon information for Los Angeles County indicates that the United States Environmental Protection Agency (USEPA) has categorized Los Angeles County as Zone 2 for radon. A Zone 2 classification is for areas with indoor average radon levels of greater than or equal to 2 P/L, but less than or equal to 4 P/L. The USEPA radon recommended action level is 4 P/L.

3.2.5 Methane

According to the City of Los Angeles Planning Department's ZIMAS interactive mapping tool (http://zimas.lacity.org) accessed on February 23, 2018, the school property is not identified as or within a Methane Hazard Site (LAPD, 2018).

3.2.6 Oil Fields and Wells

No known oil wells are located on-Site or adjacent to the school property per State of California Department of Conservation Division of Oil, Gas, and Geothermal Resources (DOGGR) Online Mapping System (https://maps.conservation.ca.gov/doggr/wellfinder/#close). A review of the DOGGR oil well tracking maps (accessed February 23, 2018) did not identify any oil wells or natural gas fields located on the school property. The closest oil well is located approximately more than one mile south/southeast of the school property. This nearest well is listed as plugged oil & gas well #1, API: 03705841; the well's former operator was San-Val Oil Co. Ltd. The next nearest well is greater than two miles to the northeast of the school property.

Additionally, according to the Oil Wells, Oil Fields and Landfill Sites Map produced by the City of Los Angeles, Bureau of Engineering (2007), the school property is not located within a boundary of a productive oil field.

3.3 REGIONAL HYDROGEOLOGY

3.3.1 Groundwater Flow Direction

State of California's Geotracker database (accessed on February 23, 2018) nearest monitoring wells are associated with a closed environmental case (Leon Automotive Center at 18102 Victory Boulevard, which is several hundred feet south of the school property, across Victory Boulevard to the south) which was granted closure by the Los Angeles Regional Water Quality Control Board

in 2016. The groundwater flow direction as determined in 2011 and 2012, by others during groundwater gauging, was toward the east. The nearest hydrogeologic data to the school property, provided in the EDR GeoCheck Report, is approximately ¾-mile northwest and across the Los Angeles River, and would not be considered representative of hydrogeologic conditions beneath the school property. The hydrogeologic information provided in the EDR GeoCheck report for properties listed in the vicinity (1/2- to 1 mile) of the school property suggest that groundwater flow direction may be southwest or northwest; no gradients are reported. Review of documents on the Geotracker website for nearby sites with groundwater flow direction and gradient information indicates that approximately 600 yards east of the school property, a formerly open leaking UST case "Vega Auto Service" at 1869 East 1st Street had a southeast groundwater flow direction at their property in 2008, and south/southwest from about 2009 through 2011 when case closure was granted by the RWQCB. The last gradient measured in November 2011 was 0.003 ft/ft.

3.3.2 Groundwater Wells Within a 1-Mile Radius of the School Property

The nearest groundwater well identified in the County of Los Angeles Department of Public Works production well location database (accessed February 23, 2018) is active well #3670, located near the intersection of Hartland Street and Hesperia Avenue, approximately 1,575 feet north/northeast of the school property. The most recent depth to water measurement was 66.70 feet below grade, on September 30, 2008. The next nearest well is active well #3681A, which had a reported depth to water measurement of 33 feet below grade, measured on May 27, 2015. This well is located more than 4,000 feet to the east of the school property, in the Sepulveda Flood Control District property.

State of California's Geotracker database (accessed on February 23, 2018) nearest monitoring wells are associated with a closed environmental case (Leon Automotive Center at 18102 Victory Boulevard, which is several hundred feet south of the school property, across Victory Boulevard to the south) which was granted closure by the Los Angeles Regional Water Quality Control Board in 2016. Depth to water was approximately 30 feet below ground surface prior to the well abandonment.

4.0 AREAS OF CONCERN (AOCS)

The PEA-E field investigation was conducted to evaluate RECs identified in the Phase 1 ESA and the following five AOCs identified in the Work Plan:

- **AOC1** – Evaluate potential impacts in shallow soil from lead-based paint, arsenic, OCPs, and PCBs around foundations of structures that will be removed as part of the planned CMP. Lead-based paint, OCPs and PCBs may be present in shallow soil based on the age of the current site buildings. Arsenic may be present in shallow soil due to LAUSD's former standard practice of applying herbicides for weed control containing metal prior to paving.
- **AOC2** – Evaluate potential impacts in shallow soil from PCBs near the on-site pad-mounted transformer that was installed prior to 1979.
- **AOC3** – Evaluate potential impacts in shallow soil from dioxins and furans near the existing (inactive) incinerator that was previously used to burn solid waste.
- **AOC4** – Evaluate potential impacts in soil from TPH, metals, PCBs and VOCs near the inactive clarifier associated with the former automotive shop adjacent to the Industrial Arts Building. Evaluate potential impacts in soil vapor from VOCs near the clarifier.
- **AOC5** – Evaluate potential impacts in soil vapor from VOCs near the suspected location of historical spray paint booths.

5.0 SAMPLING ACTIVITIES

The following sections describe the sampling strategy, methods and procedures, sample handling, decontamination procedures, and management of investigation-derived waste (IDW) for the field investigation. Soil sampling and soil vapor probe installation was conducted December 18– December 22, 2017, and on February 19th and 24th, March 26, and May 12, 2018. Soil vapor sampling was conducted on January 3, February 27, April 21, and May 22, 2018.

Site access and fieldwork notifications to school administrative personnel were coordinated with the LAUSD-OEHS Project Manager, the LAUSD Complex Project Manager, and the Reseda High School Plant Manager. The following subcontractors supported the fieldwork: Pacific Coast Locators (subsurface utility clearance), Rice General (concrete coring and hand augering), Gregg Drilling (direct push soil sampling and soil vapor probe installation), Jones Environmental (soil vapor sample collection/analysis), and Belshire Environmental Services, Inc. (IDW transport and disposal).

5.1 SAMPLING STRATEGY

The PEA field program consisted of soil and soil vapor sampling to investigate the RECs at the AOCs identified in Section 4. The sample locations proposed in the Work Plan, sample depths, analytical parameters, and sample location rationale are presented in **Table 1**. A description of the sample locations and analytical parameters completed at each AOC is provided below; sample locations are shown on **Figures 3 - 7**:

AOC1 – A total of 107 of the originally 115 proposed soil borings were initially completed around the exterior of the buildings within the footprints of future redevelopment activities. Eight of the originally proposed borings could not be completed as detailed in Section 7. Soil samples were collected from depths of 0.5-, 1.5-, and 2.5-ft bgs at each boring and either analyzed for lead and arsenic or archived by the laboratory. The step-down samples at 1.5-ft and 2.5-ft were analyzed if there was an exceedance of a screening level at 0.5-ft. The 1.5-foot and 2.5-foot sample was analyzed at twelve initial boring locations for arsenic and at four initial boring locations for lead. Additional step-down samples were collected and analyzed at 3.5-ft bgs due to an exceedance at 2.5-ft bgs at two of the initial boring locations.

Step-out soil sampling was conducted based on an exceedance of the screening criteria for lead and/or arsenic. In general, step-out soil samples were collected 5-ft and 10-ft in each direction from the initial soil sample exceedance unless there was a sample restriction (i.e., utility trench, fence line, building, or raised planter). The direction of the step-out soil sample was identified in the sample identification with a N for north, S for south, E for east and W for west. The step-out soil samples were only analyzed for the same compound as the initial sample exceedance compound.

A total of 80 step-out soil borings were advanced to delineate arsenic at the 12 initial locations in which there was an arsenic exceedance. A total of 22 step-out borings were advanced to delineate lead at the four initial location in which there was a lead exceedance. Samples were collected at each step-out boring at 0.5-, 1.5-, and 2.5-ft bgs and either analyzed for lead or arsenic or archived by the laboratory. Samples at the step-out boring locations were analyzed down to the depth of the initial sample depth with an exceedance. If there was an exceedance in a shallow sample (i.e., 0.5-ft bgs) at a step-out location the step-down samples at that step-out location were analyzed until no exceedances were detected.

A total of 10% of the initial soil samples collected at 0.5-ft bgs were analyzed for PCBs. Soil samples from 0.5-ft bgs were composited by the analytical laboratory and analyzed for OCPs. Each sample was a composite of soil from 0.5-ft bgs in four to six adjacent borings or borings surrounding a building.

AOC2 - Two soil borings were completed adjacent to the pad-mounted transformer. Soil samples were collected from depths of 0.5-, 1.5-, and 2.5-ft bgs at each boring and either analyzed for PCBs or archived by the laboratory.

AOC3 – One soil boring was collected near the inactive incinerator. Soil samples were collected from depths of 0.5-, 1.5-, and 2.5-feet bgs and either analyzed for dioxins and furans or archived by the laboratory.

AOC4 – Two borings were initially completed near the inactive clarifier. The borings were advanced to a total depth of 16-ft bgs. Soil samples were collected from depths of 5.0-, 10.0-, and 15.0- ft bgs at each boring and either analyzed for TPHs, Title 22 Metals, PCBs and VOCs or archived by the laboratory.

The two AOC4 soil borings were converted to soil vapor probe sampling locations. Soil vapor probes were installed at 5- and 15-ft bgs. A mobile laboratory sampled and analyzed soil vapor samples from the probes for VOCs.

Ten additional soil vapor probe locations were installed in step-out locations and sampled, based on the results of the initial sampling event, which had an exceedance of the DTSC's residential soil vapor screening criteria for tetrachloroethene (PCE) at location AOC4-SV1. Soil vapor probes were installed at 5- and 15-ft bgs at each location and soil vapor was sampled and analyzed by a mobile laboratory for VOCs. Soil samples were collected at seven of the ten additional vapor probe boring locations at 5- and 15-feet bgs and analyzed for TPH, PCBs and VOCs.

Three sub-slab soil vapor probes were installed within the western portion of the industrial arts building to evaluate VOCs immediately beneath the foundation slab.

AOC5 – Two soil vapor probe locations were completed near suspected (Ninyo & Moore, 2017a) locations of historical spray paint booths. Soil vapor probes were installed at 5- and 15-ft bgs. A mobile laboratory sampled and analyzed soil vapor samples from the vapor probes for VOCs.

5.2 PRELIMINARY SCREENING LEVELS

Analytical results for the soil and soil vapor samples were compared with risk-based screening levels to determine if the analytes are present at the Site at concentrations that may represent a potential health risk. The derivation of the screening levels used for the various chemical constituents is described in the following sub-sections. The screening levels are referred to here and after as PSLs (preliminary screening levels).

5.2.1 Screening Levels For Soil

For direct exposures to soils, the DTSC's (2015a) *Preliminary Endangerment Assessment Manual* states that risk-based screening levels used should be "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in HHRA Note 3." Thus, the screening levels used here are, in general, the USEPA RSLs (2018) unless DTSC (2018) has published a screening value of its own, termed the DTSC-SLs. Chemicals with special considerations are discussed in more detail below.

Arsenic: The residential risk-based screening levels from USEPA (2018) and DTSC (2018) of 0.68 and 0.11 milligrams per kilogram (mg/kg) are well below background concentrations. Therefore, several toxicologists at DTSC (Chernoff et al. 2008) conducted a statistical evaluation of background data for arsenic in soils from Los Angeles, Orange, Riverside, San Bernardino, and San Diego Counties to derive an upper bound background threshold value for arsenic. Based on an evaluation of 1,086 data points, the authors derived a background threshold value for arsenic of 12 mg/kg, which is used here as the arsenic screening level.

Lead: Adverse health effects associated with exposure to lead have been correlated with concentrations of lead in whole blood. Although USEPA uses 10 micrograms per deciliter (µg/dl) as the threshold level of concern, California (OEHHA 2007) uses 1 µg/dl. A screening level of 80 mg/kg protective of a 90th percentile estimate of 1 µg/dl blood lead concentration in children was calculated by Cal EPA (OEHHA 2009), which is used by DTSC (2018). This standard represents the concentration of lead in soil that will result in a 90th percentile estimate of a 1 µg/dl increase in blood lead in the most sensitive receptor (i.e., child or fetus). DTSC (2018) states that individual samples may exceed 80 mg/kg, as long as the 95% UCL is below 80 mg/kg and hot spots are not present.

Dioxins/furans: Of the dioxin/furan congeners measured via USEPA Method 8290, toxicity data is only available for 2,3,7,8-tetrachlorodibenzodioxin (2,3,7,8-TCDD). However, the carcinogenicity of the other congeners relative to 2,3,7,8-TCDD is known. Therefore, the measured concentrations of dioxins/furan congeners in a sample are converted to a 2,3,7,8-TCDD

equivalent concentration using the toxicity equivalence factors in USEPA (2010) guidance and compared to the USEPA (2018) residential RSL, as modified by the DTSC (2018). In this conversion, nondetected congeners are represented by a zero.

OCPs: In general, the USEPA (2018) residential RSLs, as modified by the DTSC (2018) residential SLs, were used. However, as the soil samples analyzed for pesticides were composited from six individual samples, the screening levels were divided by six to ensure that no pesticides may have been present in any of the increments that were composited above the screening levels.

Petroleum hydrocarbons: Neither DTSC (2018) nor USEPA (2018) provide risk-based screening levels for petroleum hydrocarbons as measured by USEPA 8015. Instead, DTSC (2015) recommends that the risk-based screening levels derived by the San Francisco Regional Board (2016) for direct contact be used.

5.2.2 Screening Levels For Soil Vapor

Soil vapor screening levels were based on the USEPA (2018) residential RSLs for air, as modified by the DTSC (2018) residential SLs for air. However, these screening levels are for indoor and/or ambient air. To convert them to soil vapor and sub-slab soil vapor screening levels, the indoor air screening levels are divided by an attenuation factor. Both DTSC (2011) and USEPA (2015) recommended different attenuation factors. Further, Parsons has been unofficially informed by DTSC that the USEPA (2015) attenuation factors will be adopted by DTSC in its upcoming vapor intrusion guidance, which is scheduled to be released in August of 2018. However, as that guidance has not yet been released, both sets of attenuation factors are used to derive soil vapor screening levels. The screening levels derived are presented in **Table 11**.

5.3 PRE-FIELD ACTIVITIES

5.3.1 Notifications and Permitting

Prior to intrusive fieldwork, pre-field notifications were made. A work notice was prepared in English and Spanish and provided to all students and faculty members. The work notice was distributed to the line-of-sight residences of the school along Kittridge Street, Etiwanda Avenue, Victory Boulevard, and Lindley Avenue near where the work was being conducted. Work notices were also posted on all sides of the school perimeter fence within view from the public right-of-way. No permits were required to perform the work.

5.3.2 Utility Clearance

Soil boring locations were pre-marked with white paint and Underground Service Alert of Southern California (DigAlert) was notified of the proposed boring locations prior to initiating boring activities. DigAlert contacted all utility owners of record within the Site vicinity and notified them of the planned subsurface investigation. All utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface on the public right-of-way sidewalks and street adjacent to the area designated for investigation, up to the school

property line. LAUSD provided several available as-built plans depicting locations of subsurface structures and utilities which were also reviewed prior to marking the boring locations.

The proposed sampling area was surveyed by Pacific Coast Locators, a private utility locator, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep search metal detector). Based on the presence of subsurface utilities identified in several locations, each affected boring location was relocated slightly or cancelled, to avoid causing damage to the utility.

5.4 SAMPLING PROCEDURES

5.4.1 Soil Sample Collection

Soil samples were collected on December 18 – 22, 2017, and February 19th and 24th, March 26, and May 12, 2018. Boring locations in asphalt or concrete were cored prior to soil sample collection. Shallow soil samples were collected using a hand auger. Each soil sample was collected in a manner that minimized disturbance and allowed the sample to retain as much of the original structure as possible. Soil samples were collected directly from the hand auger at each depth interval and placed in a laboratory-provided 8-ounce (oz) glass jar.

A Marl 2.5T direct push rig operated by Gregg Drilling and Testing, Inc. was used to collect soil samples at three of the fifteen soil vapor probe locations. The soil samples were collected in 4-ft long acetate sleeves placed inside the direct push rods. Upon removal from the subsurface, the soil-filled acetate tube was opened length-wise and each sample was collected from the desired depth and placed in an 8 oz jar for laboratory analysis. VOC samples were collected by driving a TerraCore sampler into the soil and placing each sample in the proper laboratory provided sample container. Soil vapor probe locations AOC4-SV2 and AOC4-SV9 through AOC4-SV13 were hand augured to total depth due to site conditions (see Section 7 for details). At locations that were hand augured, soil samples were collected at the desired depths directly from the hand auger.

Soil samples were collected in new laboratory-provided glass jars, which were then placed in individual sealable plastic bags. Each sample jar was labeled individually, stored in an ice chest containing ice, and delivered to a certified laboratory with a chain-of-custody form. Borings were backfilled with clean sand and the surface material placed to match the existing surface.

5.4.2 Soil Vapor Sample Collection

Soil Vapor Probe Construction

Soil vapor probes AOC4-SV1 through AOC4-SV13, AOC5-SV1 and AOC5-SV2 were installed as dual-nested probes. The direct push rig was used to install the dual-nested probes at AOC4-SV1, AOC4-SV3 through AOC4-SV6, AOC4-SV8 and AOC5-SV1. A hand auger was used to install the dual-nested probes at AOC4-SV2, AOC4-SV9 through AOC4-SV13 and AOC5-SV2. A 6-inch long stainless-steel inlet screen was connected to ¼-inch outer diameter Teflon tubing, which extended from ground surface to approximately 14.5- to 15-ft bgs and 4.5- to 5-ft bgs. The

screens were centered within approximately 1 foot of #2/16 sand so that approximately 3 inches of sand extended above and below the screen. The borings were backfilled from total depth to 15-ft bgs with granular bentonite. One foot of dry granular bentonite was placed immediately above each sand interval and then overlain with hydrated granular bentonite. Granular bentonite extended from 14.25- to 5.25-ft bgs, and from 4.25-ft bgs to 1-foot bgs. The vapor monitoring probe tips were placed in a plastic bag and the top of the tubing was coiled within the concrete/asphalt core. The core was capped with temporary asphalt patch. A copy of the boring log is located in **Appendix A**.

Sub-Slab Probe Construction

Sub-slab soil vapor sampling was conducted by installing a VAPOR PIN® at three locations inside the industrial arts building (AOC4-SS1, AOC4-SS2, AOC4-SS3). A hammer drill was used to drill a 1 ½-inch diameter hole into the concrete a minimum of 1 ¾-inches into the slab. A 5/8-inch diameter hole was drilled through the slab and approximately 1-inch into the underlying soil to form a void. The lower end of the VAPOR PIN® assembly was placed in the hole and the pin was tapped into place using a dead hammer. The VAPOR PIN® was protected using the flush mount cover.

Soil Vapor Sampling

The vapor monitoring probes and sub-slab probes were allowed to equilibrate at least 48 hours prior to purging and sampling. The probes were sampled in accordance with *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations* (DTSC, 2015). Purge volumes were calculated at each vapor probe using the volume of the soil vapor probe, filter pack, dry bentonite, and the tubing in the purge/sampling train to the purge pump.

Prior to purging and sampling at each soil vapor probe or sub-slab probe, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of approximately 100 inches of water, sealing the entire system and observing the vacuum for a minimum of 1 minute. A vacuum gauge, connected in parallel to the apparatus, was used to measure the vacuum. The above-ground fittings were adjusted until there was no noticeable change in the vacuum.

The purge and sampling flow rate was approximately 200 cubic centimeters per minute (cc/min), as noted on the laboratory provided analytical reports and chain of custody (CoC) forms. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents. Purging was completed using a pump except if noted on the CoC. Soil vapor samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas of n-pentane, n-hexane, and n-heptane was used as leak-test compounds to determine if there were surface leaks into the subsurface due to lack of annular space probe seals. The tracer

gas was placed at the tubing-surface interface before sampling. The tracer gas was included as a target analyte during the VOC analysis.

Soil vapor samples were analyzed for VOCs by a mobile laboratory using EPA Method 8260. The quality assurance quality control (QA/QC) documents are provided with the soil vapor laboratory reports.

5.5 EQUIPMENT DECONTAMINATION

Down-hole equipment used during soil sampling activities was decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Reusable sampling equipment was decontaminated between each sampling event using the following procedures:

- Wash with Liquinox and brush to remove excess contaminants;
- Rinse with distilled water; and
- Rinse twice with distilled water.

5.6 INVESTIGATIVE DERIVED WASTE

Used personal protective equipment and disposable equipment was double-bagged and placed in the on-site dumpster. These wastes are not considered hazardous and were sent to a municipal landfill.

Nine (9) 55-gallon drums of soil cuttings were generated during the field activities. The soil was temporarily stored on-site in properly labeled Department of Transportation-approved drums pending disposal profiling. Seven drums were removed by Belshire Environmental Services, Inc. (BESI) on March 16, 2018, and two drums were removed by BESI on June 22, 2018. The drums were disposed of at Soil Safe in Adelanto, California. Drum disposal documentation is provided in **Appendix B**.

6.0 RESULTS

6.1 INTRODUCTION

This section discusses the results of the soil and soil vapor sampling. Soil samples were analyzed by TestAmerica Laboratories, Inc., an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory located in Irvine, California. The data were reviewed and are considered acceptable for decision-making purposes. Copies of the soil analytical laboratory reports are provided in **Appendix C**. Soil vapor samples were collected and analyzed by Jones Environmental mobile laboratory. Copies of the soil vapor analytical laboratory reports are provided in **Appendix D**.

6.2 SOIL SAMPLING RESULTS

Soil analytical results for the field investigation are summarized in the following sections. The results are discussed for each compound that was analyzed in soil at the five AOCs. The analytical data are compiled in **Tables 3 – 9** and the initial soil sample locations are presented on **Figures 3 – 7**. The step-out soil sample locations are identified in **Table 11** and presented in **Figures 8 - 18**.

The samples were analyzed by Test America by the following methods:

- Lead and arsenic by US EPA Method 6010B
- PCBs by US EPA Method 8082
- OCPs by US EPA Method 8081A
- Dioxins and Furans by US EPA Method 8290
- TPH by US EPA Method 8015M
- VOCs by US EPA Method 8260B
- Title 22 Metals by US EPA Method 6010B and 7471A

6.2.1 Arsenic

At AOC1, shallow soil samples (0.5-ft bgs) at the 107 initial boring locations in AOC1 (AOC1-B1 through AOC1-B115) were analyzed for arsenic. Eleven duplicate samples were collected from the set of initial samples at 0.5-ft bgs. The analytical results for arsenic are presented on **Table 2** with a comparison to the arsenic PSL of 12 mg/kg. Detected arsenic concentrations ranged from 2.7J mg/kg (AOC1-B80) to 32 mg/kg (AOC1-B10). The arsenic concentrations at 12 initial locations in the shallow soil samples (i.e., 0.5-ft bgs) (AOC1-B1, AOC1-B8, AOC1-B10, AOC1-B22, AOC1-B58, AOC1-B64, AOC1-B77, AOC1-B78, AOC1-B81, AOC1-B91, AOC1-B108, AOC1-B112) exceeded the PSL.

To bound the vertical extent of arsenic at each initial boring location where there was an exceedance at 0.5-ft bgs, the step-down sample at 1.5-ft bgs and 2.5-ft bgs was also analyzed. Arsenic concentrations ranged from 5.3 mg/kg (AOC4-B8-2.5) to 37 mg/kg (AOC4-B77-D1.5) in the step-down samples analyzed at the initial boring locations. Soil samples were collected and analyzed at 3.5-ft bgs at AOC4-B77 and AOC4-B81 due to an arsenic exceedance at 2.5-ft bgs. The arsenic concentration in the two samples analyzed at the 3.5-ft depth were below the PSL for arsenic.

A total of 80 step-out samples and24 duplicate samples were collected at 0.5-ft bgs to delineate arsenic at the 12 initial locations with an arsenic exceedance. Detected arsenic concentrations ranged from 1.9 mg/kg (Duplicate at AOC1-B91-E10) to 33 mg/kg (AOC1-B81-NE20) in the step-out samples at 0.5-ft bgs. A total of 35 step-out samples exceeded the PSL for arsenic. Ninety-two step-downs and three duplicate samples were analyzed at the step-out sample locations. Detected arsenic concentrations ranged from 3.2 mg/kg (AOC1-B91-N20 at 2.5-ft bgs) to 31 mg/kg (AOC1-B77-SW5 at 1.5-ft bgs) in the step-down samples. The maximum depth that soil samples were collected and analyzed for arsenic was 3.5-ft bgs. **Table 11** presents the step-out samples collected in each direction from the initial sample, distance from the initial sample location, maximum depth of a step-out sample exceedance in each direction from the initial sample location, and the step-out restrictions (if any) at each location. **Figures 8 - 18** show the step-out sampling locations for arsenic.

6.2.2 Lead

At AOC1, shallow soil samples (0.5-ft bgs) at the 107 initial boring locations identified in AOC1 (AOC1-B1 through AOC1-B115) were analyzed for lead. Eleven duplicate samples were collected from the set of initial borings at 0.5-ft bgs. The analytical results for lead are presented on **Table 2** with a comparison to the lead PSL of 80 mg/kg. Lead concentrations in the 107 initial shallow soil samples ranged from 3.7 mg/kg (AOC1-B80) to 170 mg/kg (AOC1-B6). The lead concentrations at four of the initial shallow soil sample locations (AOC1-B6, AOC1-B34, AOC1-B100, AOC1-B108) exceeded the PSL for lead.

To bound the vertical extent of lead at each boring location in which there was an exceedance at 0.5-ft bgs, the step-down samples at 1.5-ft and 2.5-ft bgs sample were also analyzed. Lead concentrations ranged from 6.2 mg/kg (AOC4-B6-2.5) to 29 mg/kg (AOC4-B34-D2.5) in the step-down samples analyzed at the initial boring locations.

A total of 24 step-out samples and three duplicate samples were collected at 0.5-ft bgs to delineate lead at the 4 initial locations with a lead exceedance. Detected lead concentrations ranged from 5.3 mg/kg (AOC1-B6-W10) to 120 mg/kg (AOC1-B23-N5) in the step-out samples. The lead concentration at AOC1-B23-N5 exceeded the PSL for lead. Two step-down samples were analyzed at the step-out locations. Both step-down samples analyzed at AOC1-B23-N5 were below the PSL for lead.

Lead concentrations at four initial shallow sample locations and one step-out sample location exceeded 80 mg/kg. These four samples were analyzed for soluble lead for waste characterization purposes. The four samples were analyzed for soluble lead by the California Soluble Threshold Limit Concentration (STLC) test method and one sample (AOC1-B34) was analyzed by the USEPA Toxicity Characteristic Leaching Procedure (TCLP) test method.

The STLC results did not exceed the 5 mg/L threshold used by the State of California to define a waste as non-Resource Conservation and Recovery Act (RCRA) hazardous at sample locations AOC1-B6-D0.5, AOC1-B34-N5-D0.5, AOC1-B100-D0.5, and AOC1-B108-D0.5. The STLC result of 6.1 mg/L at sample location AOC1-B34-D0.5 exceeded the 5 mg/L threshold, but the TCLP result of 0.15 mg/L did not exceed the 5 mg/L threshold that would require soil to be managed as a RCRA hazardous waste. Results of the STLC and TCLP analysis are presented in **Table 2** and copies of the analytical laboratory reports are provided in **Appendix C**.

6.2.3 PCBs

Fifteen non-biased discrete shallow soil samples (0.5-ft bgs) representing 10% of the initial AOC1 sample locations, two 0.5-ft bgs soil samples from AOC2, six 5-ft bgs soil samples at AOC4, and four 15-ft bgs soil samples at AOC4 were collected and analyzed for PCBs. PCBs were not detected above their respective laboratory reporting limits in any of the samples analyzed. Three samples (AOC1-B21, AOC1B-33, AOC1-B54) and a duplicate sample (AOC1-B21) had laboratory J-qualifiers between the laboratory reporting limit and minimum detection limit for PCB-1260. As presented on **Table 3**, none of the PCB sample compounds exceeded their respective PSLs. Based on these results, PCBs are not considered a Site chemical of concern (COC).

6.2.4 OCPs

At AOC1, composite samples from four to six adjacent borings, or borings surrounding a building, all from the same depth, were prepared by the laboratory, and analyzed for OCPs. A total of 26 composite samples were prepared by the laboratory. The laboratory results indicate the only OCP detections above the laboratory reporting limit in the soil samples collected at AOC1 were for 4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane (technical), and dieldrin, which are under the PSLs of 317, 333, 317, 73 and 5.7 µg/kg, respectively, for composites of a maximum of six discrete samples (DTSC, 2006). The OCP results are presented in **Table 4**. Based on these results, OCPs are not considered a Site COC.

6.2.5 Dioxins and Furans

One shallow soil sample and a corresponding duplicate soil sample from AOC3 were analyzed for dioxins and furans. The measured concentrations of dioxins/furans in the samples were converted to a 2,3,7,8-TCDD equivalent concentration using the toxicity equivalence factors in USEPA (2010) guidance. The results for AOC3-B1-D0.5 (1.2 picograms per gram [pg/g]) and AOC3-B1-D0.5-DUP (1.0 pg/g) did not exceed the USEPA residential PSL of 4.8 picograms per gram (pg/g)

and the DTSC residential RG of 5 pg/g. The dioxin and furan results are presented in **Table 5**. Based on these results, dioxins and furans are not considered a Site COC.

6.2.6 TPH

At AOC4, sixteen soil samples and three duplicate samples were analyzed for TPH in the gasoline range (TPH-g), diesel range (TPH-d), and oil range (TPH-o). TPH-o was detected above the laboratory reporting limit in eleven soil samples ranging in concentration from 2.4J mg/kg (AOC4-SV13-5) to 21B mg/kg (AOC4-SV8-5). Detections of TPH-o were below the San Francisco RWQCB RSL of 10,746 mg/kg San Francisco Regional Board (2016). The analytical results are provided in **Table 5**. Based on these results, TPH is not considered a Site COC.

6.2.7 VOCs in Soil

At AOC4, sixteen soil samples and three duplicate samples were analyzed for VOCs. Seven VOC compounds were detected in soil with maximum concentrations as follows: benzene (3.2 µg/kg); 2-Butanone (6.1J µg/kg); ethylbenzene (2.0 µg/kg); naphthalene (1.7J µg/kg); PCE (1.2J µg/kg); toluene (3.9 µg/kg); 1,2,3-trichlorobenzene (0.97J µg/kg). The concentrations of detected VOCs were below PSLs. The analytical results are provided in **Table 7**. All other VOCs were not detected above their respective laboratory reporting limits.

6.2.8 Title 22 Metals

At AOC4, two primary soil samples and one duplicate sample were analyzed for Title 22 metals. Antimony, selenium, silver, and thallium were not detected above their respective laboratory reporting limits in the samples. Maximum detected concentrations of the remaining metals were as follows: arsenic (9 mg/kg), barium (200 mg/kg), beryllium (1.2 mg/kg), cadmium (3.0 mg/kg), chromium (43 mg/kg), cobalt (9.9 mg/kg), copper (37 mg/kg), lead (7.1 mg/kg), mercury (0.028 mg/kg), nickel (45 mg/kg), vanadium (88 mg/kg), and zinc (94 mg/kg). The detections of Title 22 metals were below PSLs at AOC4. The analytical results are provided in **Table 8**.

6.3 SOIL VAPOR SAMPLING RESULTS

6.3.1 VOCs in Soil Vapor at AOC4

A total of four initial soil vapor samples and one duplicate sample were collected from AOC4 and analyzed by a mobile laboratory for VOCs on January 3, 2018. PCE was detected above the current PSL at AOC4-SV1-5 and AOC4-SV1-15. PCE ranged from 196 micrograms per cubic meter (µg/m^3) (AOC4-SV2-5) to 322 µg/m^3 (AOC4-SV1-15). No other VOCs were detected above their respective PSLs. The analytical results are provided in **Table 9** and the soil vapor probe locations are presented on **Figure 3**.

Dual-nested soil vapor probes were installed at three additional locations (AOC4-SV3 through AOC4-SV5) to delineate PCE in soil vapor. Ten soil vapor samples and one duplicate sample were collected from AOC4-SV1 through AOC4-SV5 on February 27, 2018 and analyzed for VOCs by a mobile lab. PCE concentrations ranged from non-detect (ND) at (AOC4-SV5-5) to

448 µg/m^3 (AOC4-SV3-15). PCE exceeded the current PSL at AOC4-SV1-15, AOC4-SV3-5 and AOC4-SV3-15. No other VOCs were detected above their PSLs.

Dual-nested soil vapor probes were installed at four additional locations (AOC4-SV6, AOC4-SV8 through AOC4-SV10) to further delineate PCE in soil vapor. Twelve soil vapor samples and two duplicates were collected from AOC4-SV1, AOC4-SV3, AOC4-SV6, and AOC4-SV8 through AOC4-SV10 on April 21, 2018 and analyzed for VOCs by a mobile lab. PCE concentrations ranged from 93 µg/m^3 (AOC4-SV6-5) to 489 µg/m^3 (AOC4-SV3-15). PCE exceeded the current PSL at AOC4-SV1-5, AOC4-SV1-15, AOC4-SV3-5, AOC4-SV3-15, AOC4-SV8-5, AOC4-SV8-15, AOC4-SV10-5 and AOC4-S10-15. No other VOCs were detected above their PSLs.

Dual-nested soil vapor probes were installed at three additional locations (AOC4-SV-11 through AOC4-SV-13). Three sub-slab soil vapor probes (AOC4-SS1 through AOC4-SS3) were installed within the industrial arts building to evaluate PCE in the slab of the foundation. Nine soil vapor samples and one duplicate sample were collected from AOC4-SV11 through AOC4-SV13 and AOC4-SS1 through AOC4-SS3 and analyzed for VOCs by a mobile lab on May 22, 2018. PCE concentrations in the soil vapor probes ranged from 17 µg/m^3 (AOC4-SV13-5) to 296 µg /m^3 (AOC4-SV11-5). PCE concentrations in the sub-slab samples ranged from 144 µg /m^3 (AOC4-SS1) to 523 µg /m^3 (AOC4-SS3). PCE exceeded the current RSLs at AOC4-SV11-5, AOC4-SV11-15, AOC4-SS1, AOC4-SS2 and AOC4-SS3. Benzene exceeded the current RSL at AOC4-SV12-5, AOC4-SS1, AOC4-SS2 and AOC4-SS3. The step-out soil vapor probe and sub-slab sample locations are presented on **Figure 19**.

6.3.2 VOCs in Soil Vapor at AOC5

A total of four initial soil vapor samples were collected from AOC5 and analyzed by the mobile laboratory for VOCs by USEPA Method 8260B on January 3, 2018. Toluene was the only VOC detected above the laboratory detection limits at AOC5. Toluene was detected in soil vapor at AOC5-SV1-15, AOC4-SV2-5 and ACO4-SV2-15 ranging from 9 µg/m3 to 15 µg/m3. The toluene concentrations detected in soil vapor are below the current PSLs. The analytical results are provided in **Table 9** and the soil vapor probe locations are depicted on **Figure 4**. VOCs in soil vapor are not considered a COC at AOC5.

6.4 DELINEATION OF IMPACTS IN SOIL

Arsenic concentrations at 11 locations (AOC1-B1, AOC1-B8, AOC1-B10, AOC1-B22, AOC1-B58, AOC1-B64, AOC1-B77, AOC1-B78, AOC1-B81, AOC1-B91, and AOC1-B112) in shallow soil (0.5-ft bgs) exceeded the PSL of 12 mg/kg. Lead concentrations in soil at three locations (AOC1-B6, AOC1-B34, and AOC1-B100) exceeded the PSL of 80 mg/kg. At location AOC1-B108 both arsenic and lead exceeded their respective PSLs in soil. The areas of impacted soil are shown on **Figures 8 – 18**. Step-out sampling conducted at the locations in which soil samples exceeded RSLs delineated the lateral extent of impacted soil at the Site. At the direction of the LAUSD Project Manager, the boundary of lateral impacts in soil were determined by establishing

a clean (i.e., non-detect) step-out sample location or a sample restriction (i.e.: building, utility, fence, etc.). **Table 11** identifies step-out distances and restrictions.

The vertical extent of soil exceedances was defined by conducting step-down sampling. Vertical impacts of lead and/or arsenic do not extend below 1.5-ft bgs at the following locations: AOC1-B1, AOC1-B6, AOC1-B8, AOC1-B10, AOC1-B34, AOC1-B58, AOC1-B64, AOC1-B100, AOC1-B108, and AOC1-B112. Vertical impacts do not extend below 2.5-ft bgs at AOC1-B22 and AOC1-B78. Vertical impacts do not extend below 3.5-ft bgs at AOC1-B77, AOC1-B81 and AOC1-B91.

The depths and dimensions of impacted soil at each location are shown on **Figures 8 - 18**. The estimated volumes of impacted soil are summarized in **Table 11**. An estimated 266 cubic yards of soil are impacted by lead and/or arsenic based on the results of the field investigation. Approximately 261 cubic yards can be managed as non-hazardous waste and approximately 5 cubic yards can be managed as non-RCRA hazardous waste.

6.5 DELINEATION OF IMPACTS IN SOIL VAPOR

The PCE soil vapor concentration exceeded the current PSLs at AOC4-SV1, AOC4-SV3, AOC4-SV8, AOC4-SV10 and AOC4-SV11. Soil vapor exceeded the current PSL for benzene at AOC4-SV12 at 15-ft bgs. The elevated PCE soil-vapor impact has been delineated to the west by AOC4-SV6 and AOC4-SV9; to the east by AOC4-SV5; to the south by AOC4-SV12, and; to the north by AOC4-SV13.

7.0 FIELD VARIANCES

Field conditions caused the following variances from the original scope of work:

- Boring locations around existing buildings were adjusted to account for access ramps and other obstructions (e.g., stored equipment, fencing, trees and bushes, etc.). Further adjustments to some boring locations were made to provide an adequate distance from subsurface utility lines identified by the geophysical survey. Final boring locations are presented on **Figures 3 - 19**.

- Borings were not completed at AOC1-B49, AOC1-B53 or AOC1-B56 due to the presence of extensive subsurface utilities.

- Borings were not completed at AOC1-B32, AOC1-B35, AOC1-B42 or AOC1-B50 due to the presence of wooden fencing between buildings preventing access.

- Boring location AOC1-B7 was not sampled because there was a void space immediately below the concrete.

- Access issues at AOC4-SV2, AOC4-SV9 through AOC4-SV13 and AOC5-SV2 provided insufficient clearance to use the Marl 2.5T direct-push drill rig. These locations were hand-augured to total depth.

- Step-out borings north and south of primary boring locations AOC1-B58 and AOC1-B64 were adjusted 3 feet to the east and west, respectively, to account for wheel chair ramps.

- Step-out location AOC1-B58/B64 was located equi-distant from primary boring location AOC1-B58 and AOC1-B64. This location served as the 10-foot step-out sample for each primary location.

8.0 HUMAN HEALTH SCREENING EVALUATION

This section presents the human health screening evaluation (HHSE) portion of the PEA. The HHSE evaluates potential impacts to human health from exposure to the chemicals detected in soil and soil vapor at the Site. Following the PEA Guidance Manual (DTSC, 2015a), the HHSE is performed within the context of a health risk assessment that addresses an unrestricted future residential land-use scenario, which is more health-protective than the existing and continued use of the Site as a school.

8.1 SOILS

For soils, arsenic and lead are the only chemicals that were detected above PSLs in soils at the Site (**see Table 2**). Arsenic was detected at a maximum concentration of 37 mg/kg, while lead was detected at a maximum concentration of 170 mg/kg. These exceed the PSLs of 12 mg/kg and 80 mg/kg, respectively.

Any concentrations above PSLs may pose an unacceptable health risk for a residential land use scenario. To further evaluate the potential risks from exposures to arsenic and lead, site-wide 95% upper confidence limits on the mean (UCLs) were calculated using USEPA's (2015) ProUCL v5.1.002 for several depth intervals. The UCLs recommended by ProUCL are shown in **Table 9.1** below. The ProUCL output is provided in **Appendix E**.

Table 8.1. UCLs for arsenic and lead in soil by depth interval.

Depth interval (ft bgs)	Arsenic (mg/kg)	Lead (mg/kg)
0-0.5	12.22	30.52
0-1.5	10.83	29.97
0-2.5	10.41	29.55
0-3.5	10.37	*

Notes: no soil samples from >2.5-3.5 ft bgs were analyzed for lead.

For arsenic, the results above indicate that, on a site-wide average, arsenic does not exceed the upper bound background value of 12 mg/kg below the surface and only slightly exceeds it in surface (0-0.5-ft bgs). Nonetheless, arsenic was detected at concentrations greater than background in 12 initial locations. Multiple step-out and step-down samples were collected at each initial location. At three of the initial locations (i.e., AOC1-B58, AOC1-B64, and AOC1-B108), arsenic was not detected above background in any of the step-out and step-down samples

and the maximum detected concentration was only slightly above background (i.e., 13, 13, and 17 mg/kg for the three previously listed borings, respectively), indicating that the area of elevated arsenic is relatively small and may not warrant remediation. However, at the other initial locations, at least one step-out/step-down sample also exceeded background, indicating that remediation may be warranted.

For lead, DTSC (2018) guidance states that individual samples may exceed the screening level of 80 mg/kg as long as the UCL is less than the screening level and there are no hotspots. Given that only 5 samples (of 153) had lead concentrations greater than 80 mg/kg and those exceedances were not co-located, it does not appear that there are any "hot spots" and further action does not appear to be warranted.

8.2 SOIL VAPOR

In both the soil vapor and sub-slab soil vapor samples collected at the site, only benzene and PCE were detected at concentrations above both the current and (likely) future screening levels (see **Tables 9 and 10**).

Benzene. Outside of the buildings at the site, there was a detection of benzene above the PSLs at 15-ft bgs at sample location AOC4-SV12, but benzene was not detected in the 5-ft bgs sample at the same location. This likely indicates that benzene is degrading as it migrates through the soil column and that benzene in soil vapor at AOC4-SV12 does not represent a potential risk. However, benzene was also detected above the PSLs in two sub-slab soil vapor samples at up to 23 times the current PSL. It should be noted that using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor benzene concentration of 209 micrograms per cubic meter ($\mu g/m^3$) corresponds to indoor air concentrations of 10.45 and 6.27 $\mu g/m^3$, respectively. This is not substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.16 to 1.41 $\mu g/m^3$ for 2016-2017) and Burbank (0.50 to 4.79 $\mu g/m^3$ for 2013). Lastly, it should be noted that the screening levels used here are for residents and not school-based receptors and are likely to be over protective of exposures and risks at the site. Overall, benzene in sub-slab soil vapor at the Site does exceed screening levels but is only likely to represent a slight risk above background exposures.

Tetrachloroethene (PCE). In the sub-slab soil vapor samples, PCE was detected at up to 523 $\mu g/m^3$, which is 57 times the current (and more conservative) PSL. In the soil vapor probes installed outside of the buildings, PCE was detected at up to 489 $\mu g/m^3$, which is 2 times the current PSL but 33 times the (likely) future RSL. Using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor concentration of 523 $\mu g/m^3$ corresponds to indoor air concentrations of 26.15 and 15.69 $\mu g/m^3$, respectively. These concentrations are substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.034 to 0.54 $\mu g/m^3$ for

2016-2017) and Burbank (0.14 to 1.15 µg/m^3 for 2013). While the PSLs used here are likely to be over protective of school-based receptors (as explained above), the detections of PCE exceed the PSLs by a large margin and the estimated concentrations in indoor air are well above background. Thus, PCE in soil vapor is likely to represent a potential risk at the Site.

9.0 CONCLUSIONS AND RECOMMENDATIONS

9.1 CONCLUSIONS

The following conclusions were derived from the soil and soil vapor sampling and analyses conducted at the Reseda High School:

- PCBs were not detected above their respective laboratory reporting limits in any of the soil or soil vapor samples analyzed. Therefore, PCBs are not considered a Site COC.
- Five OCPs (4,4'-DDD, 4,4'-DDE, 4,4'-DDT, chlordane, and dieldrin) were detected above their respective reporting limits in one or more composite soil samples. OCP concentrations were all below PSLs; therefore, OCPs are not considered Site COCs.
- The concentrations of dioxins/furans in the soil samples did not exceed PSLs. Therefore, dioxins and furans are not considered Site CoCs.
- TPH-g and TPH-d were not detected in the soil samples collected at the Site. TPH-o was detected above the laboratory reporting limit in eleven soil samples but was below the PSLs. Therefore, TPHs are not considered Site COCs.
- Title 22 metals were below PSLs except for arsenic and lead.
- Lead results from soil samples collected in the proposed development areas are below the PSL (80 mg/kg) in 103 of the 107 initial boring locations. The highest exceedance of lead was 170 mg/kg at location AOC1-B6 at 0.5-ft bgs. Step-down and lateral step-out sampling was conducted until the detected lead concentrations were less than the screening level of 80 mg/kg, a building foundation was reached, access was limited, or a subsurface utility was encountered.
- Arsenic results from soil samples collected in the proposed development area are below the PSL (12 mg/kg) in 95 of the 107 initial boring locations. The highest exceedance of arsenic at the initial sample locations was 32 mg/kg at AOC1-B10 at 0.5-ft bgs. Step-down and lateral step-out sampling was conducted until the detected arsenic concentrations were less than the PSL of 12 mg/kg, a building foundation was reached, access was limited, or a subsurface utility was encountered.
- An estimated 266 cubic yards of soil are impacted by lead and/or arsenic based on the results of the field investigation. Approximately 261 cubic yards can be managed as non-hazardous waste and approximately 5 cubic yards can be managed as non-RCRA hazardous waste.
- PCE was detected above the current PSLs in soil vapor at 5- and 15-ft bgs at probe locations AOC4-SV1, AOC4-SV3, AOC4-SV4, AOC4-SV8, AOC4-SV10 and AOC4-SV11. PCE was detected above the current PSL in soil vapor at sub-slab locations AOC4-SS1, AOC4-SS2 and AOC4-SS3. The elevated PCE soil-vapor impact has been delineated to the west by AOC4-SV6 and AOC4-SV9; to the east by AOC4-SV5; to the south by AOC4-SV12,

and; to the north by AOC4-SV13. PCE in soil vapor is likely to represent a potential risk at the Site.

- Benzene was detected above the current PSL in soil vapor at 15-ft bgs at AOC4-SV12, but benzene was not detected in the 5-ft bgs sample at the same location. This likely indicates that benzene is degrading as it migrates through the soil column and that benzene in soil vapor at AOC4-SV12 does not represent a potential risk. Benzene was detected above the current PSL in soil vapor at sub-slab locations AOC4-SS1, AOC4-SS2 and AOC4-SS3. Overall, benzene in sub-slab soil vapor at the Site does indeed exceed PSLs but is only likely to represent a slight risk above background exposures.

9.2 RECOMMENDATIONS

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address shallow soils impacted with lead and/or arsenic above their respective RSLs.
- The RAW should also address PCE and benzene soil vapor impacts above the current PSLs.

10.0 REFERENCES

Chernoff G, Bosan W, Oudiz D. 2008. *Determination of a Southern California regional background arsenic concentration in soil*.

DTSC, 2011. *Guidance for the evaluation and mitigation of subsurface vapor intrusion to indoor air (vapor intrusion guidance).* Final.

DTSC 2015a. *Preliminary Endangerment Assessment Manual. A guidance manual for evaluating hazardous substance release sites*.

DTSC, 2015b. *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations*

DTSC, 2018. *HERO HHRA Note Number 3, DTSC-Modified Screening Levels (DTSC-SLs).* January.

Ninyo & Moore, 2017a. *Phase 1 Environmental Assessment*, August 2017.

Ninyo & Moore, 2017b. *Preliminary Environmental Assessment Equivalent Workplan,* August 2017.

OEHHA, 2007. Development of health criteria for schools site risk assessment pursuant to Health and Safety Code Section 901(g): child-specific benchmark change in blood lead concentration for school site risk assessment.

OEHHA, 2009. *Revised California human health screening levels for lead*.

San Francisco Regional Board, 2016. *Environmental Screening Levels*.

USEPA, 2010. *Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds. EPA/100/R-10/005*.

USEPA, 2015. *OSWER technical guide for assessing and mitigating the vapor intrusion pathway from subsurface vapor sources to indoor air*. OSWER Publication 9200.2-154.

USEPA (US Environmental Protection Agency). 2018. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. May. Available online at https://www.epa.gov/risk/regional-screening-levels-rsls

TABLES

Table 1
Sampling Strategy Plan
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth (ft bgs)	Proposed Analyses	Sample Location Rationale
AOC1				
AOC1-B1 through AOC1-B115	AOC1-B1 through AOC1-B115-0.5	0-0.5	Lead, arsenic, OCPs (composite 4 to 6 samples). 10% samples for PCBs	Evaluate potential impacts in shallow soil from lead based paing, arsenic, OCPs and PCBs near the site buildings
	AOC1-B1 through AOC1-B115-1.5	1.0-1.5	Archive sample	
	AOC1-B1 through AOC1-B115-2.5	2.0-2.5	Archive sample	
AOC2				
AOC2-B1 through AOC2-B2	AOC2-B1 and AOC2-B2-0.5	0-0.5	PCBs	Evaluate potential impacts in shallow soil from PCBs near pad-mounted transformer
	AOC2-B1 and AOC2-B2-1.5	1.0-1.5	Archive sample	
	AOC2-B1 and AOC2-B2-2.5	2.0-2.5	Archive sample	
AOC3				
AOC3-B1	AOC3-B1-0.5	0-0.5	Dioxins and Furans	Evaluate Potential impacts in shallow soil from dioxins and furans near incinerator
	AOC3-B1-1.5	1.0-1.5	Archive sample	
	AOC3-B1-2.5	2.0-2.5	Archive sample	
AOC4				
AOC4-B1 and AOC4-B2	AOC4-B1 and AOC4-B2-5.0	5.0 - 5.5	TPHs, Title 22 Metals, PCBs, VOCs	Evaluate potential impacts in soil from TPH, Title 22 Metals, PCBs, and VOCs near clarifier
	AOC4-B1 and AOC4-B2-10	10.0 - 10.5	Archive sample	
	AOC4-B1 and AOC4-B2-15	15.0 - 15.5	Archive sample	
AOC4-SV1 and AOC4-SV2	AOC4-SV1 and AOC4-SV2-5	5.0	VOCs	Evaluate potential impacts in soil vapor from VOCs near clarifier
	AOC4-SV1 and AOC4-SV2-15	15.0	VOCs	
AOC5				
AOC5-SV1 and AOC5-SV2	AOC5-SV1 and AOC5-SV2-5	5.0	VOCs	Evaluate potential impacts in soil vapor from VOCs near suspected location of historical spray paint booths
	AOC5-SV1 and AOC5-SV2-15	15.0	VOCs	

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B1	AOC1-B1-D0.5	12/20/2017	0.5	55	13	NA	NA
	AOC1-B1-D1.5	12/20/2017	1.5	NA	6.5	NA	NA
	AOC1-B1-D2.5	12/20/2017	2.5	NA	7.1	NA	NA
	AOC1-B1-N5-D0.5	2/24/2018	0.5	NA	7.0	NA	NA
	AOC1-B1-N5-D0.5-DUP	2/24/2018	0.5	NA	8.0	NA	NA
	AOC1-B1-N10-D0.5	2/24/2018	0.5	NA	5.7	NA	NA
	AOC1-B1-E5-D0.5	2/24/2018	0.5	NA	15	NA	NA
	AOC1-B1-E5-D1.5	2/24/2018	1.5	NA	5.4	NA	NA
	AOC1-B1-E5-D2.5	2/24/2018	2.5	NA	6.6	NA	NA
	AOC1-B1-E10-D0.5	2/24/2018	0.5	NA	8.8	NA	NA
	AOC1-B1-W5-D0.5	2/24/2018	0.5	NA	6.0	NA	NA
	AOC1-B1-W10-D0.5	2/24/2018	0.5	NA	12	NA	NA
	AOC1-B1-W10-D0.5-DUP	2/24/2018	0.5	NA	11	NA	NA
AOC1-B2	AOC1-B2-D0.5	12/20/2017	0.5	66	10	NA	NA
AOC1-B3	AOC1-B3-D0.5	12/20/2017	0.5	32	7.4	NA	NA
AOC1-B4	AOC1-B4-D0.5	12/20/2017	0.5	14	7.8	NA	NA
AOC1-B5	AOC1-B5-D0.5	12/20/2017	0.5	11	7.9	NA	NA
AOC1-B6	AOC1-B6-D0.5	12/20/2017	0.5	170	11	2.7	NA
	AOC1-B6-D1.5	12/20/2017	1.5	11	NA	NA	NA
	AOC1-B6-D2.5	12/20/2017	2.5	6.2	NA	NA	NA
	AOC1-B6-N5-D0.5	2/19/2018	0.5	16	NA	NA	NA
	AOC1-B6-N10-D0.5	2/19/2018	0.5	8.3	NA	NA	NA
	AOC1-B6-S5-D0.5	2/19/2018	0.5	9.0	NA	NA	NA
	AOC1-B6-S10-D0.5	2/19/2018	0.5	9.6	NA	NA	NA
	AOC1-B6-W5-D0.5	2/19/2018	0.5	7.5	NA	NA	NA
	AOC1-B6-W10-D0.5	2/19/2018	0.5	5.3	NA	NA	NA
AOC1-B8	AOC1-B8-D0.5	12/20/2017	0.5	73	16	NA	NA
	AOC1-B8-D1.5	12/20/2017	1.5	NA	6.7	NA	NA
	AOC1-B8-D2.5	12/20/2017	2.5	NA	5.3	NA	NA
	AOC1-B8-S10-D0.5	2/19/2018	0.5	NA	18	NA	NA
	AOC1-B8-S10-D0.5-DUP	2/19/2018	0.5	NA	17	NA	NA
	AOC1-B8-S10-D1.5	2/19/2018	1.5	NA	12	NA	NA
	AOC1-B8-S10-D2.5	2/19/2018	2.5	NA	7.6	NA	NA
	AOC1-B8-S15-D0.5	3/26/2018	0.5	NA	12	NA	NA
	AOC1-B8-S15-D0.5-DUP	3/26/2018	0.5	NA	13	NA	NA
	AOC1-B8-S15-D1.5	3/26/2018	1.5	NA	7.0	NA	NA
	AOC1-B8-S15-D2.5	3/26/2018	2.5	NA	5.8	NA	NA
	AOC1-B8-S20-D0.5	3/26/2018	0.5	NA	9.0	NA	NA
AOC1-B9	AOC1-B9-D0.5	12/20/2017	0.5	6.9	7.5	NA	NA
AOC1-B10	AOC1-B10-D0.5	12/20/2017	0.5	18	32	NA	NA
	AOC1-B10-D1.5	12/20/2017	1.5	NA	11	NA	NA
	AOC1-B10-D2.5	12/20/2017	2.5	NA	11	NA	NA
	AOC1-B10-N5-D0.5	2/24/2018	0.5	NA	15	NA	NA
	AOC1-B10-N5-D0.5-DUP	2/24/2018	0.5	NA	11	NA	NA
	AOC1-B10-N5-D1.5	2/24/2018	1.5	NA	8.9	NA	NA
	AOC1-B10-N5-D2.5	2/24/2018	2.5	NA	5.8	NA	NA
	AOC1-B10-N10-D0.5	2/24/2018	0.5	NA	4.5	NA	NA
	AOC1-B10-S5-D0.5	2/24/2018	0.5	NA	9.6	NA	NA
	AOC1-B10-S10-D0.5	2/24/2018	0.5	NA	7.9	NA	NA
	AOC1-B10-W5-D0.5	2/24/2018	0.5	NA	16	NA	NA
	AOC1-B10-W5-D1.5	2/24/2018	1.5	NA	6.4	NA	NA
	AOC1-B10-W5-D2.5	2/24/2018	2.5	NA	12	NA	NA
	AOC1-B10-W10-D0.5	2/24/2018	0.5	NA	12	NA	NA
AOC1-B11	AOC1-B11-D0.5	12/20/2017	0.5	11	7.8	NA	NA
AOC1-B12	AOC1-B12-D0.5	12/20/2017	0.5	12	9.7	NA	NA
AOC1-B13	AOC1-B13-D0.5	12/20/2017	0.5	29	10	NA	NA
AOC1-B14	AOC1-B14-D0.5	12/20/2017	0.5	17	9.7	NA	NA
AOC1-B15	AOC1-B15-D0.5	12/20/2017	0.5	42	8.9	NA	NA
AOC1-B16	AOC1-B16-D0.5	12/20/2017	0.5	7.0	5.6	NA	NA
AOC1-B17	AOC1-B17-D0.5	12/20/2017	0.5	9.9	6.8	NA	NA
AOC1-B18	AOC1-B18-D0.5	12/20/2017	0.5	5.0	6.1	NA	NA
	AOC1-B18-D0.5-DUP	12/20/2017	0.5	5.8	7.0	NA	NA
AOC1-B19	AOC1-B19-D0.5	12/19/2017	0.5	5.6	6.6	NA	NA
AOC1-B20	AOC1-B20-D0.5	12/19/2017	0.5	18	4.8	NA	NA
AOC1-B21	AOC1-B21-D0.5	12/20/2017	0.5	33	5.8	NA	NA
	AOC1-B21-D0.5-DUP	12/20/2017	0.5	41	6.7	NA	NA
AOC1-B22	AOC1-B22-D0.5	12/19/2017	0.5	32	21	NA	NA
	AOC1-B22-D1.5	12/19/2017	1.5	NA	8.7	NA	NA
	AOC1-B22-D2.5	12/19/2017	2.5	NA	11	NA	NA
	AOC1-B22-N5-D0.5	2/19/2018	0.5	NA	16	NA	NA
	AOC1-B22-N5-D1.5	2/19/2018	1.5	NA	11	NA	NA

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B22 Con't.	AOC1-B22-N5-D2.5	2/19/2018	2.5	NA	7.8	NA	NA
	AOC1-B22-N10-D0.5	2/19/2018	0.5	NA	23	NA	NA
	AOC1-B22-N10-D0.5-DUP	2/19/2018	0.5	NA	6.9	NA	NA
	AOC1-B22-N10-D1.5	2/19/2018	1.5	NA	6.8	NA	NA
	AOC1-B22-N10-D2.5	2/19/2018	2.5	NA	6.1	NA	NA
	AOC1-B22-N15-D0.5	3/26/2018	0.5	NA	26	NA	NA
	AOC1-B22-N15-D1.5	3/26/2018	1.5	NA	13	NA	NA
	AOC1-B22-N15-D2.5	3/26/2018	2.5	NA	6.9	NA	NA
	AOC1-B22-S5-D0.5	2/19/2018	0.5	NA	16	NA	NA
	AOC1-B22-S5-D1.5	2/19/2018	1.5	NA	9.1	NA	NA
	AOC1-B22-S5-D2.5	2/19/2018	2.5	NA	7.5	NA	NA
	AOC1-B22-S10-D0.5	2/19/2018	0.5	NA	18	NA	NA
	AOC1-B22-S10-D1.5	2/19/2018	1.5	NA	9.0	NA	NA
	AOC1-B22-S10-D2.5	2/19/2018	2.5	NA	5.4	NA	NA
	AOC1-B22-S15-D0.5	3/26/2018	0.5	NA	14	NA	NA
	AOC1-B22-S15-D1.5	3/26/2018	1.5	NA	8.9	NA	NA
	AOC1-B22-S15-D2.5	3/26/2018	2.5	NA	7.0	NA	NA
	AOC1-B22-S20-D0.5	3/26/2018	0.5	NA	13	NA	NA
	AOC1-B22-S20-D0.5-DUP	3/26/2018	0.5	NA	20	NA	NA
	AOC1-B22-S20-D1.5	3/26/2018	1.5	NA	7.2	NA	NA
	AOC1-B22-S20-D2.5	3/26/2018	2.5	NA	6.5	NA	NA
	AOC1-B22-E5-D0.5	2/19/2018	0.5	NA	6.1	NA	NA
AOC1-B23	AOC1-B23-D0.5	12/20/2017	0.5	8.6	8.5	NA	NA
AOC1-B24	AOC1-B24-D0.5	12/20/2017	0.5	8.8	9.7	NA	NA
AOC1-B25	AOC1-B25-D0.5	12/20/2017	0.5	6.5	5.9	NA	NA
AOC1-B26	AOC1-B26-D0.5	12/20/2017	0.5	13	9.2	NA	NA
AOC1-B27	AOC1-B27-D0.5	12/20/2017	0.5	8.6	11	NA	NA
AOC1-B28	AOC1-B28-D0.5	12/20/2017	0.5	9.3	8.9	NA	NA
	AOC1-B28-0.5-DUP	12/20/2017	0.5	8.4	8.4	NA	NA
AOC1-B29	AOC1-B29-D0.5	12/20/2017	0.5	7.4	7.6	NA	NA
AOC1-B30	AOC1-B30-D0.5	12/18/2017	0.5	6.6	5.4	NA	NA
AOC1-B31	AOC1-B31-D0.5	12/18/2017	0.5	24	5.6	NA	NA
AOC1-B33	AOC1-B33-D0.5	12/18/2017	0.5	26	9.6	NA	NA
AOC1-B34	AOC1-B34-D0.5	12/18/2017	0.5	100	5.6	6.1	0.15
	AOC1-B34-D1.5	12/18/2017	1.5	21	NA	NA	NA
	AOC1-B34-D2.5	12/18/2017	2.5	29	NA	NA	NA
	AOC1-B34-N5-D0.5	2/24/2018	0.5	120	NA	4.5	NA
	AOC1-B34-N5-D1.5	2/24/2018	1.5	40	NA	NA	NA
	AOC1-B34-N5-D2.5	2/24/2018	2.5	28	NA	NA	NA
	AOC1-B34-N10-D0.5	2/24/2018	0.5	19	NA	NA	NA
	AOC1-B34-S5-D0.5	2/24/2018	0.5	43	NA	NA	NA
	AOC1-B34-S5-D0.5-DUP	2/24/2018	0.5	18	NA	NA	NA
	AOC1-B34-S10-D0.5	2/24/2018	0.5	34	NA	NA	NA
	AOC1-B34-W5-D0.5	2/24/2018	0.5	20	NA	NA	NA
	AOC1-B34-W10-D0.5	2/24/2018	0.5	8.8	NA	NA	NA
AOC1-B36	AOC1-B36-D0.5	12/18/2017	0.5	26	11	NA	NA
AOC1-B37	AOC1-B37-D0.5	12/18/2017	0.5	13	6.6	NA	NA
AOC1-B38	AOC1-B38-D0.5	12/18/2017	0.5	33	9.6	NA	NA
AOC1-B39	AOC1-B39-D0.5	12/18/2017	0.5	19	8.4	NA	NA
AOC1-B40	AOC1-B40-D0.5	12/18/2017	0.5	14	6.7	NA	NA
AOC1-B41	AOC1-B41-D0.5	12/18/2017	0.5	54	8.7	NA	NA
AOC1-B43	AOC1-B43-D0.5	12/18/2017	0.5	4.0	3.4	NA	NA
AOC1-B44	AOC1-B44-D0.5	12/18/2017	0.5	28	5.8	NA	NA
AOC1-B45	AOC1-B45-D0.5	12/18/2017	0.5	46	8.5	NA	NA
AOC1-B46	AOC1-B46-D0.5	12/18/2017	0.5	19	4.6	NA	NA
AOC1-B47	AOC1-B47-D0.5	12/18/2017	0.5	6.0	4.2	NA	NA
AOC1-B48	AOC1-B48-D0.5	12/19/2017	0.5	5.7	6.0	NA	NA
	AOC1-B48-D0.5-DUP	12/19/2017	0.5	5.7	6.7	NA	NA
AOC1-B51	AOC1-B51-D0.5	12/18/2017	0.5	13	4.6	NA	NA
AOC1-B52	AOC1-B52-D0.5	12/18/2017	0.5	8.6	9.1	NA	NA
AOC1-B54	AOC1-B54-D0.5	12/18/2017	0.5	37	7.3	NA	NA
AOC1-B55	AOC1-B55-D0.5	12/18/2017	0.5	32	7.3	NA	NA
AOC1-B57	AOC1-B57-D0.5	12/19/2017	0.5	9.7	8.0	NA	NA
	AOC1-B57-D0.5-DUP	12/19/2017	0.5	11	8.0	NA	NA
AOC1-B58	AOC1-B58-D0.5	12/18/2017	0.5	27	13	NA	NA
	AOC1-B58-D1.5	12/18/2017	1.5	NA	8.9	NA	NA
	AOC1-B58-D2.5	12/18/2017	2.5	NA	8.0	NA	NA
	AOC1-B58-N5-D0.5	2/24/2018	0.5	NA	8.0	NA	NA
	AOC1-B58-N5-D0.5-DUP	2/24/2018	0.5	NA	5.8	NA	NA
	AOC1-B58-N10-D0.5	2/24/2018	0.5	NA	9.3	NA	NA
	AOC1-B58-S5-D0.5	2/24/2018	0.5	NA	6.3	NA	NA

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B58 Con't.	AOC1-B58-S10-D0.5	2/24/2018	0.5	NA	5.9	NA	NA
	AOC1-B58-E5-D0.5	2/24/2018	0.5	NA	5.8	NA	NA
	AOC1-B58-E5-D0.5-DUP	2/24/2018	0.5	NA	8.4	NA	NA
AOC1-B58 / AOC1-B64	AOC1-B58/64-9-D0.5	2/24/2018	0.5	NA	7.9	NA	NA
AOC1-B59	AOC1-B59-D0.5	12/18/2017	0.5	23	7.5	NA	NA
	AOC1B59-D0.5-DUP	12/18/2017	0.5	13	7.7	NA	NA
AOC1-B60	AOC1-B60-D0.5	12/18/2017	0.5	4.0	3.6	NA	NA
	AOC1-B60-D0.5-DUP	12/18/2017	0.5	11	6.4	NA	NA
AOC1-B61	AOC1-B61-D0.5	12/18/2017	0.5	18	6.8	NA	NA
	AOC1-B61-D0.5-DUP	12/18/2017	0.5	9.7	5.9	NA	NA
AOC1-B62	AOC1-B62-D0.5	12/18/2017	0.5	15	7.8	NA	NA
AOC1-B63	AOC1-B63-D0.5	12/19/2017	0.5	9.0	7.0	NA	NA
AOC1-B64	AOC1-B64-D0.5	12/18/2017	0.5	35	13	NA	NA
	AOC1-B64-D1.5	12/18/2017	1.5	NA	9.1	NA	NA
	AOC1-B64-D2.5	12/18/2017	2.5	NA	7.6	NA	NA
	AOC1-B64-N5-D0.5	2/24/2018	0.5	NA	12	NA	NA
	AOC1-B64-N10-D0.5	2/24/2018	0.5	NA	7.3	NA	NA
	AOC1-B64-S5-D0.5	2/24/2018	0.5	NA	7.6	NA	NA
	AOC1-B64-S10-D0.5	2/24/2018	0.5	NA	6.0	NA	NA
	AOC1-B64-W5-D0.5	2/24/2018	0.5	NA	7.9	NA	NA
	AOC1-B64-W5-D0.5-DUP	2/24/2018	0.5	NA	12	NA	NA
	AOC1-B64-N5-D0.5-DUP	2/24/2018	0.5	NA	10	NA	NA
AOC1-B65	AOC1-B65-D0.5	12/18/2017	0.5	34	7.9	NA	NA
AOC1-B66	AOC1-B66-D0.5	12/19/2017	0.5	25	8.8	NA	NA
AOC1-B67	AOC1-B67-D0.5	12/18/2017	0.5	29	7.5	NA	NA
AOC1-B68	AOC1-B68-D0.5	12/19/2017	0.5	30	7.1	NA	NA
AOC1-B69	AOC1-B69-D0.5	12/19/2017	0.5	44	9.1	NA	NA
AOC1-B70	AOC1-B70-D0.5	12/18/2017	0.5	30	4.8	NA	NA
	AOC1-B70-D0.5-DUP	12/18/2017	0.5	23	6.9	NA	NA
AOC1-B71	AOC1-B71-D0.5	12/19/2017	0.5	18	6.5	NA	NA
AOC1-B72	AOC1-B72-D0.5	12/19/2017	0.5	38	5.5	NA	NA
AOC1-B73	AOC1-B73-D0.5	12/19/2017	0.5	37	4.3	NA	NA
AOC1-B74	AOC1-B74-D0.5	12/19/2017	0.5	23	5.0	NA	NA
AOC1-B75	AOC1-B75-D0.5	12/19/2017	0.5	6.7	5.0	NA	NA
AOC1-B76	AOC1-B76-D0.5	12/19/2017	0.5	13	7.1	NA	NA
AOC1-B77	AOC1-B77-D0.5	12/19/2017	0.5	19	19	NA	NA
	AOC1-B77-D1.5	12/19/2017	1.5	NA	37	NA	NA
	AOC1-B77-D2.5	12/19/2017	2.5	NA	20	NA	NA
	AOC1-B77-D3.5	3/26/2018	3.5	NA	7.2	NA	NA
	AOC1-B77-NW5-D0.5	2/19/2018	0.5	NA	31	NA	NA
	AOC1-B77-NW5-D1.5	2/19/2018	1.5	NA	20	NA	NA
	AOC1-B77-NW5-D2.5	2/19/2018	2.5	NA	13	NA	NA
	AOC1-B77-NW5-D2.5-DUP	2/19/2018	2.5	NA	9.4	NA	NA
	AOC1-B77-NW5-D3.5	3/26/2018	3.5	NA	9.4	NA	NA
	AOC1-B77-NW10-D0.5	2/19/2018	0.5	NA	12	NA	NA
	AOC1-B77-NW10-D1.5	2/19/2018	1.5	NA	16	NA	NA
	AOC1-B77-NW10-D2.5	2/19/2018	2.5	NA	13	NA	NA
	AOC1-B77-NW10-D3.5	3/26/2018	3.5	NA	9.9	NA	NA
	AOC1-B77-NW20-D0.5	3/26/2018	0.5	NA	23	NA	NA
	AOC1-B77-NW20-D0.5-DUP	3/26/2018	0.5	NA	11	NA	NA
	AOC1-B77-NW20-D1.5	3/26/2018	1.5	NA	10	NA	NA
	AOC1-B77-NW20-D2.5	3/26/2018	2.5	NA	8.5	NA	NA
	AOC1-B77-NW38-D0.5	3/26/2018	0.5	NA	20	NA	NA
	AOC1-B77-NW38-D0.5-DUP	3/26/2018	0.5	NA	19	NA	NA
	AOC1-B77-NW38-D1.5	3/26/2018	1.5	NA	6.5	NA	NA
	AOC1-B77-NW38-D2.5	3/26/2018	2.5	NA	8.7	NA	NA
	AOC1-B77-SW5-D0.5	2/19/2018	0.5	NA	10	NA	NA
	AOC1-B77-SW5-D1.5	2/19/2018	1.5	NA	31	NA	NA
	AOC1-B77-SW5-D2.5	2/19/2018	2.5	NA	16	NA	NA
	AOC1-B77-SW5-D3.5	5/12/2018	3.5	NA	9.3	NA	NA
	AOC1-B77-SW10-D0.5	2/19/2018	0.5	NA	12	NA	NA
	AOC1-B77-SW10-D1.5	2/19/2018	1.5	NA	7.1	NA	NA
	AOC1-B77-SW10-D2.5	2/19/2018	2.5	NA	5.2	NA	NA
	AOC1-B77-SE5-D0.5	2/19/2018	0.5	NA	26	NA	NA
	AOC1-B77-SE5-D1.5	2/19/2018	1.5	NA	16	NA	NA
	AOC1-B77-SE5-D2.5	2/19/2018	2.5	NA	8.7	NA	NA
	AOC1-B77-SE5-D3.5	3/26/2018	3.5	NA	9.3	NA	NA
	AOC1-B77-SE10-D0.5	2/19/2018	0.5	NA	32	NA	NA
	AOC1-B77-SE10-D1.5	2/19/2018	1.5	NA	13	NA	NA
	AOC1-B77-SE10-D2.5	2/19/2018	2.5	NA	6.7	NA	NA
	AOC1-B77-SE22-D0.5	3/26/2018	0.5	NA	21	NA	NA

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B77	AOC1-B77-SE22-D1.5	3/26/2018	1.5	NA	15	NA	NA
Con't.	AOC1-B77-SE22-D2.5	3/26/2018	2.5	NA	7.4	NA	NA
AOC1-B78	AOC1-B78-D0.5	12/19/2017	0.5	37	13	NA	NA
	AOC1-B78-D1.5	12/19/2017	1.5	NA	16	NA	NA
	AOC1-B78-D2.5	12/19/2017	2.5	NA	12	NA	NA
	AOC1-B78-NW5-D0.5	2/19/2018	0.5	NA	14	NA	NA
	AOC1-B78-NW5-D1.5	2/19/2018	1.5	NA	8.6	NA	NA
	AOC1-B78-NW10-D0.5	2/19/2018	0.5	NA	19	NA	NA
	AOC1-B78-NW10-D0.5-DUP	2/19/2018	0.5	NA	22	NA	NA
	AOC1-B78-NW10-D1.5	2/19/2018	1.5	NA	7.5	NA	NA
	AOC1-B78-NW22-D0.5	3/26/2018	0.5	NA	11	NA	NA
	AOC1-B78-SE5-D0.5	2/19/2018	0.5	NA	31	NA	NA
	AOC1-B78-SE5-D1.5	2/19/2018	1.5	NA	8.5	NA	NA
	AOC1-B78-SE5-D1.5-DUP	2/19/2018	1.5	NA	8.6	NA	NA
	AOC1-B78-SW5-D0.5	2/19/2018	0.5	NA	7.6	NA	NA
	AOC1-B78-SW5-D1.5	2/19/2018	1.5	NA	8.6	NA	NA
	AOC1-B78-SW10-D0.5	2/19/2018	0.5	NA	8.4	NA	NA
	AOC1-B78-SW10-D0.5-DUP	2/19/2018	0.5	NA	7.3	NA	NA
	AOC1-B78-SW10-D1.5	2/19/2018	1.5	NA	6.8	NA	NA
AOC1-B79	AOC1-B79-D0.5	12/19/2017	0.5	4.9	3.4	NA	NA
AOC1-B80	AOC1-B80-D0.5	12/19/2017	0.5	3.7	2.7J	NA	NA
AOC1-B81	AOC1-B81-D0.5	12/19/2017	0.5	22	16	NA	NA
	AOC1-B81-D1.5	12/19/2017	1.5	NA	11	NA	NA
	AOC1-B81-D2.5	12/19/2017	2.5	NA	14	NA	NA
	AOC1-B81-D3.5	5/12/2018	3.5	NA	8.3	NA	NA
	AOC1-B81-NE5-D0.5	2/19/2018	0.5	NA	15	NA	NA
	AOC1-B81-NE5-D1.5	2/19/2018	1.5	NA	7.1	NA	NA
	AOC1-B81-NE5-D2.5	2/19/2018	2.5	NA	9.4	NA	NA
	AOC1-B81-NE10-D0.5	2/19/2018	0.5	NA	19	NA	NA
	AOC1-B81-NE10-D1.5	2/19/2018	1.5	NA	8.1	NA	NA
	AOC1-B81-NE10-D2.5	2/19/2018	2.5	NA	6.9	NA	NA
	AOC1-B81-NE15-D0.5	3/26/2018	0.5	NA	23	NA	NA
	AOC1-B81-NE15-D0.DUP	3/26/2018	0.5	NA	26	NA	NA
	AOC1-B81-NE15-D1.5	3/26/2018	1.5	NA	8.6	NA	NA
	AOC1-B81-NE15-D2.5	3/26/2018	2.5	NA	4.8	NA	NA
	AOC1-B81-NE20-D0.5	3/26/2018	0.5	NA	33	NA	NA
	AOC1-B81-NE20-D1.5	3/26/2018	1.5	NA	6.6	NA	NA
	AOC1-B81-NE20-D2.5	3/26/2018	2.5	NA	4.7	NA	NA
	AOC1B81-NE35-D0.5	5/12/2018	0.5	NA	20	NA	NA
	AOC1B81-NE35-D0.5 DUP	5/12/2018	0.5	NA	11	NA	NA
	AOC1B81-NE35-D1.5	5/12/2018	1.5	NA	6.6	NA	NA
	AOC1B81-NE35-D2.5	5/12/2018	2.5	NA	6.7	NA	NA
	AOC1-B81-NW5-D0.5	2/19/2018	0.5	NA	6.5	NA	NA
	AOC1-B81-NW5-D1.5-DUP	2/19/2018	1.5	NA	6.5	NA	NA
	AOC1-B81-NW5-D1.5	2/19/2018	1.5	NA	5.4	NA	NA
	AOC1-B81-NW5-D2.5	2/19/2018	2.5	NA	5.9	NA	NA
	AOC1-B81-SE5-D0.5	2/19/2018	0.5	NA	6.4	NA	NA
	AOC1-B81-SE5-D1.5	2/19/2018	1.5	NA	6.4	NA	NA
	AOC1-B81-SE5-D2.5	2/19/2018	2.5	NA	7.1	NA	NA
	AOC1-B81-SE10-D0.5	2/19/2018	0.5	NA	6.8	NA	NA
	AOC1-B81-SE10-D1.5	2/19/2018	1.5	NA	6.4	NA	NA
	AOC1-B81-SE10-D2.5	2/19/2018	2.5	NA	6.7	NA	NA
	AOC1-B81-SW5-D0.5	2/19/2018	0.5	NA	14	NA	NA
	AOC1-B81-SW5-D1.5	2/19/2018	1.5	NA	6.9	NA	NA
	AOC1-B81-SW5-D1.5-DUP	2/19/2018	1.5	NA	7.3	NA	NA
	AOC1-B81-SW5-D2.5	2/19/2018	2.5	NA	6.8	NA	NA
	AOC1-B81-SW10-D0.5	2/19/2018	0.5	NA	33	NA	NA
	AOC1-B81-SW10-D1.5	2/19/2018	1.5	NA	12	NA	NA
	AOC1-B81-SW10-D2.5	2/19/2018	2.5	NA	12	NA	NA
	AOC1-B81-SW15-D0.5	3/26/2018	0.5	NA	18	NA	NA
	AOC1-B81-SW15-D1.5	3/26/2018	1.5	NA	7.5	NA	NA
	AOC1-B81-SW15-D2.5	3/26/2018	2.5	NA	6.4	NA	NA
	AOC1-B81-SW20-D0.5	3/26/2018	0.5	NA	26	NA	NA
	AOC1-B81-SW20-D0.5-DUP	3/26/2018	0.5	NA	3.7	NA	NA
	AOC1-B81-SW20-D1.5	3/26/2018	1.5	NA	6.3	NA	NA
	AOC1-B81-SW20-D2.5	3/26/2018	2.5	NA	5.5	NA	NA
AOC1-B82	AOC1-B82-D0.5	12/19/2017	0.5	3.8	3.1	NA	NA
AOC1-B83	AOC1-B83-D0.5	12/19/2017	0.5	10	7.0	NA	NA
AOC1-B84	AOC1-B84-D0.5	12/19/2017	0.5	17	9.8	NA	NA
AOC1-B85	AOC1-B85-D0.5	12/19/2017	0.5	6.8	6.1	NA	NA
AOC1-B86	AOC1-B86-D0.5	12/19/2017	0.5	4.8	2.8J	NA	NA
AOC1-B87	AOC1-B87-D0.5	12/19/2017	0.5	7.6	7.0	NA	NA
AOC1-B88	AOC1-B88-D0.5	12/19/2017	0.5	10	8.7	NA	NA

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B89	AOC1-B89-D0.5	12/19/2017	0.5	8.1	6.4	NA	NA
AOC1-B90	AOC1-B90-D0.5	12/21/2017	0.5	9.1	6.2	NA	NA
AOC1-B91	AOC1-B91-D0.5	12/21/2017	0.5	61	19	NA	NA
	AOC1-B91-D1.5	12/21/2017	1.5	NA	7.3	NA	NA
	AOC1-B91-D2.5	12/21/2017	2.5	NA	6.0	NA	NA
	AOC1-B91-N5-D0.5	2/24/2018	0.5	NA	25	NA	NA
	AOC1-B91-N5-D1.5	2/24/2018	1.5	NA	15	NA	NA
	AOC1-B91-N5-D2.5	2/24/2018	2.5	NA	15	NA	NA
	AOC1-B91-N5-D3.5	5/12/2018	3.5	NA	6.7	NA	NA
	AOC1-B91-N10-D0.5	2/24/2018	0.5	NA	7.2	NA	NA
	AOC1-B91-N10-D0.5-DUP	2/24/2018	0.5	NA	16	NA	NA
	AOC1-B91-N10-D1.5	2/24/2018	1.5	NA	8.6	NA	NA
	AOC1-B91-N10-D2.5	2/24/2018	2.5	NA	4.8	NA	NA
	AOC1-B91-N15-D0.5	3/26/2018	0.5	NA	14	NA	NA
	AOC1-B91-N15-D1.5	3/26/2018	1.5	NA	5.1	NA	NA
	AOC1-B91-N15-D2.5	3/26/2018	2.5	NA	4.2	NA	NA
	AOC1-B91-N20-D0.5	3/26/2018	0.5	NA	16	NA	NA
	AOC1-B91-N20-D1.5	3/26/2018	1.5	NA	6.4	NA	NA
	AOC1-B91-N20-D2.5	3/26/2018	2.5	NA	3.2	NA	NA
	AOC1-B91-N30-D0.5	5/12/2018	0.5	NA	7.3	NA	NA
	AOC1-B91-S5-D0.5	2/24/2018	0.5	NA	21	NA	NA
	AOC1-B91-S5-D1.5	2/24/2018	1.5	NA	7.5	NA	NA
	AOC1-B91-S5-D2.5	2/24/2018	2.5	NA	4.5	NA	NA
	AOC1-B91-S10-D0.5	2/24/2018	0.5	NA	5.8	NA	NA
	AOC1-B91-S10-D0.5-DUP	2/24/2018	0.5	NA	7.3	NA	NA
	AOC1-B91-E5-D0.5	3/26/2018	0.5	NA	6.0	NA	NA
	AOC1-B91-E10-D0.5	3/26/2018	0.5	NA	4.3	NA	NA
	AOC1-B91-E10-D0.5-DUP	3/26/2018	0.5	NA	1.9 J	NA	NA
AOC1-B92	AOC1-B92-D0.5	12/21/2017	0.5	58	9.0	NA	NA
AOC1-B93	AOC1-B93-D0.5	12/20/2017	0.5	9.0	6.0	NA	NA
AOC1-B94	AOC1-B94-D0.5	12/20/2017	0.5	6.4	7.9	NA	NA
AOC1-B95	AOC1-B95-D0.5	12/20/2017	0.5	7.0	7.5	NA	NA
AOC1-B96	AOC1-B96-D0.5	12/20/2017	0.5	12	8.1	NA	NA
AOC1-B97	AOC1-B97-D0.5	12/20/2017	0.5	19	8.5	NA	NA
AOC1-B98	AOC1-B98-D0.5	12/21/2017	0.5	7.6	6.8	NA	NA
AOC1-B99	AOC1-B99-D0.5	12/21/2017	0.5	47	9.1	NA	NA
AOC1-B100	AOC1-B100-D0.5	12/21/2017	0.5	83	11	1.5	NA
	AOC1-B100-D1.5	12/21/2017	1.5	7.0	NA	NA	NA
	AOC1-B100-D2.5	12/21/2017	2.5	8.4	NA	NA	NA
	AOC1-B100-N5-D0.5	2/19/2018	0.5	9.8	NA	NA	NA
	AOC1-B100-S5-D0.5	2/19/2018	0.5	11	NA	NA	NA
	AOC1-B100-S10-D0.5	2/19/2018	0.5	26	NA	NA	NA
	AOC1-B100-E5-D0.5	2/19/2018	0.5	21	NA	NA	NA
	AOC1-B100-E5-D0.5-DUP	2/19/2018	0.5	13	NA	NA	NA
	AOC1-B100-E10-D0.5	2/19/2018	0.5	29	NA	NA	NA
	AOC1-B100-W5-D0.5	2/19/2018	0.5	36	NA	NA	NA
	AOC1-B100-W10-D0.5	2/19/2018	0.5	17	NA	NA	NA
AOC1-B101	AOC1-B101-D0.5	12/21/2017	0.5	6.0	7.0	NA	NA
	AOC1-B101-D0.5 DUP	12/21/2017	0.5	6.0	5.7	NA	NA
AOC1-B102	AOC1-B102-D0.5	12/21/2017	0.5	8.2	5.1	NA	NA
AOC1-B103	AOC1-B103-D0.5	12/21/2017	0.5	4.6	3.8	NA	NA
AOC1-B104	AOC1-B104-D0.5	12/21/2017	0.5	7.1	5.0	NA	NA
AOC1-B105	AOC1-B105-D0.5	12/21/2017	0.5	7.0	5.7	NA	NA
AOC1-B106	AOC1-B106-D0.5	12/21/2017	0.5	6.2	6.0	NA	NA
AOC1-B107	AOC1-B107-D0.5	12/21/2017	0.5	6.5	6.1	NA	NA
AOC1-B108	AOC1-B108-D0.5	12/21/2017	0.5	110	17	0.19	NA
	AOC1-B108-D1.5	12/21/2017	1.5	6.3	9.6	NA	NA
	AOC1-B108-D2.5	12/21/2017	2.5	8.3	7.1	NA	NA
	AOC1-B108-S5-D0.5	2/19/2018	0.5	6.0	6.0	NA	NA
	AOC1-B108-S10-D0.5	2/19/2018	0.5	7.4	5.6	NA	NA
	AOC1-B108-S10-D0.5-DUP	2/20/2018	1.5	5.3	5.8	NA	NA
	AOC1-B108-E5-D0.5	2/19/2018	0.5	6.6	8.1	NA	NA
AOC1-B109	AOC1-B109-D0.5	12/21/2017	0.5	5.9	5.7	NA	NA
AOC1-B110	AOC1-B110-D0.5	12/21/2017	0.5	6.9	6.4	NA	NA
AOC1-B111	AOC1-B111-D0.5	12/21/2017	0.5	8.6	4.2	NA	NA
AOC1-B112	AOC1-B112-D0.5	12/21/2017	0.5	9.3	13	NA	NA
	AOC1-B112-D1.5	12/21/2017	1.5	NA	8.4	NA	NA
	AOC1-B112-D2.5	12/21/2017	2.5	NA	6.2	NA	NA
	AOC1-B112-N5-D0.5	2/19/2018	0.5	NA	13	NA	NA
	AOC1-B112-N5-D1.5	2/19/2018	1.5	NA	7.1	NA	NA
	AOC1-B112-N5-D2.5	2/19/2018	2.5	NA	8.7	NA	NA
	AOC1-B112-N10-D0.5	2/19/2018	0.5	NA	13	NA	NA
	AOC1-B112-N10-D1.5	2/19/2018	1.5	NA	7.8	NA	NA

TABLE 2
ANALYTICAL RESULTS FOR LEAD AND ARSENIC IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Lead	Arsenic	STLC - Lead	TCLP - Lead
Units			ft bgs	mg/kg	mg/kg	mg/L	mg/L
USEPA Test Method			--	6010B	6010B	6010B	6010B
Screening Level			--	80	12	5.0	5.0
AOC1-B112 Con't.	AOC1-B112-N10-D2.5	2/19/2018	2.5	NA	8.2	NA	NA
	AOC1-B112-N15-D0.5	3/26/2018	0.5	NA	15	NA	NA
	AOC1-B112-N15-D0.5-DUP	3/26/2018	0.5	NA	11	NA	NA
	AOC1-B112-N15-D1.5	3/26/2018	1.5	NA	5.4	NA	NA
	AOC1-B112-N15-D2.5	3/26/2018	2.5	NA	9.2	NA	NA
	AOC1-B112-N20-D0.5	3/26/2018	0.5	NA	7.5	NA	NA
	AOC1-B112-W5-D0.5	2/19/2018	0.5	NA	8.2	NA	NA
	AOC1-B112-W5-D0.5-DUP	2/19/2018	0.5	NA	8.4	NA	NA
	AOC1-B112-W10-D0.5	2/19/2018	0.5	NA	7.8	NA	NA
AOC1-B113	AOC1-B113-D0.5	12/21/2017	0.5	21	12	NA	NA
AOC1-B114	AOC1-B114-D0.5	12/21/2017	0.5	12	6.9	NA	NA
	AOC1-B114-D0.5 DUP	12/21/2017	0.5	13	6.4	NA	NA
AOC1-B115	AOC1-B115-D0.5	12/21/2017	0.5	45	9.6	NA	NA

NOTES:
mg/kg = millgrams per kilogram
Arsenic and lead analyzed by EPA Method 6010B
Derivation of the screening level is explained in text
Yellow highlighted cell = lead value >80 mg/kg or arsenic value >12 mg/kg
Grey hightlighted cell indicates step-out sample
NA = not analyzed

TABLE 3
ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
LAUSD Reseda High School PEA Equivalent

Sample ID	Sample Collection Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Units		**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
RSLs		**4,100**	**200**	**170**	**230**	**230**	**240**	**240**
AOC1-B12-D0.5	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
AOC1-B17-D0.5	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
AOC1-B18-D0.5	12/20/2017	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110
AOC1-B18-D0.5 DUP	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
AOC1-B21-D0.5	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	**65J**
AOC1-B21-D0.5 DUP	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	**44J**
AOC1-B25-D0.5	12/20/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC1-B28-D0.5	12/20/2017	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110
AOC1-B33-D0.5	12/18/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	**24J**
AOC1-B34-D0.5	12/18/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	**42J**
AOC1-B44-D0.5	12/18/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC1-B48-D0.5	12/19/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC1-B48-D0.5 DUP	12/19/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC1-B54-D0.5	12/19/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	**17J**
AOC1-B57-D0.5	12/19/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC1-B57-D0.5 DUP	12/19/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC1-B95-D0.5	12/20/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC1-B101-D0.5	12/21/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC1-B101-D0.5 DUP	12/21/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC1-B114-D0.5	12/21/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC1-B114-D0.5 DUP	12/21/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC2-B1-D0.5	12/20/2017	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100	ND<100
AOC2-B1-D0.5 DUP	12/20/2017	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC2-B2-D0.5	12/20/2017	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110	ND<110
AOC4-B1-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B1-5.0 DUP	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B2-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV6-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV6-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV8-5	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV8-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-15	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV9-15 DUP	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV11-5	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV11-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV12-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV12-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV13-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15DUP	5/12/2018	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48

NOTES:
ug/kg - micrograms/ kilogram
PCBs = polychlorinated biphenyls analyzed by Environmental Protection Agency Method 8082
ND = not detected
J = estimated at the value given
Resident Soil Regional Screening Levels (RSLs) were used as screening values.

TABLE 4
ANALYTICAL RESULTS FOR ORGANOCHLORINE PESTICIDES IN SOIL
LAUSD Reseda High School PEA Equivalent

Sample ID	Depth (ft below grade)	Sample Collection Date	4,4'-DDD	4,4'-DDE	4,4'-DDT	Chlordane (technical)	Dieldrin	Other OCPs
RSLs*			**317**	**333**	**317**	**73**	**5.7**	--
Units			**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
AOC1(B1,B2,B3,B4,B5-0.5)	0.5	12/20/17	ND	**13**	**22**	**34**	ND	ND
AOC1(B6,B8,B9,B10-0.5)	0.5	12/20/17	ND	**6.8**	**1.8**	**12**	ND	ND
AOC1(B11,B12,B13,B23-0.5)	0.5	12/20/17	ND	**3.4**	**3.8**	ND	ND	ND
AOC1(B14,B15,B16,B17,B18-0.5)	0.5	12/20/17	ND	**2.3**	**2.6**	ND	ND	ND
AOC1(B14,B15,B16,B17,B18-0.5) DUP	0.5	12/20/17	ND	**2.8**	**1.8**	ND	ND	ND
AOC1(B19,B20,B21,B22-0.5')	0.5	12/20/17	ND	**6.4**	**6.3**	**14**	ND	ND
AOC1(B19,B20,B21,B22-0.5') DUP	0.5	12/20/17	ND	**3.1**	**2.4**	**14**	ND	ND
AOC1(B24,B25,B26,B27, B28,B29-0.5')	0.5	12/20/17	ND	**1.9**	**4.6**	ND	ND	ND
AOC1(B30,B31,B33,B34-0.5')	0.5	12/19/17	ND	**2.1**	**4.1**	**32**	ND	ND
AOC1(B36,B37,B38,B39-0.5')	0.5	12/19/17	ND	**4.2**	**3.0**	**22**	ND	ND
AOC1(B40,B41,B43,B44,B45-0.5')	0.5	12/19/17	ND	**6.6**	ND	**15**	ND	ND
AOC1(B46,B47,B48,B51-0.5')	0.5	12/19/17	ND	**5.8**	**3.6**	**15**	ND	ND
AOC1(B52,B54,B55,B60-0.5')	0.5	12/19/17	**1.6**	**18**	**15**	**15**	ND	ND
AOC1(B62,B63,B64,B65,B66-0.5')	0.5	12/19/17	ND	**15**	**14**	**51**	**4.0**	ND
AOC1(B67,B68,B69,B70,B71-0.5')	0.5	12/19/17	ND	**13**	**11**	**36**	**2.5**	ND
AOC1(B72,B73,B74,B75-0.5')	0.5	12/19/17	ND	**9.3**	**8.0**	**44**	**3.5**	ND
AOC1(B76,B77,B78,B79,B80,B81-0.5')	0.5	12/19/17	ND	**18**	**7.5**	**14**	ND	ND
AOC1(B82,B83,B84,B85-0.5')	0.5	12/19/17	ND	**11**	**5.6**	ND	ND	ND
AOC1(B86,B87,B88,B89-0.5')	0.5	12/21/17	ND	**4.6**	**2.0**	ND	ND	ND
AOC1(B90,B91,B92,B93,B94,B95-0.5')	0.5	12/21/17	ND	**14**	**7.1**	**31**	**2.0**	ND
AOC1(B96,B97,B98,B99,B100,B101-0.5')	0.5	12/21/17	ND	**5.8**	**3.6**	**15**	ND	ND
AOC1(B102,B103,B104,B105-0.5')	0.5	12/21/17	ND	**1.8**	ND	ND	ND	ND
AOC1(B102,B103,B104,B105-0.5') DUP	0.5	12/21/17	ND	**6.1**	**3.6**	ND	ND	ND
AOC1(B106,B107,B108,B109,B110,B111-0.5')	0.5	12/21/17	ND	**6.0**	**2.5**	ND	ND	ND
AOC1(B112,B113,B114,B115-0.5')	0.5	12/21/17	ND	**2.8**	ND	ND	ND	ND
AOC1(B112,B113,B114,B115-0.5') DUP	0.5	12/21/17	ND	**3.5**	ND	ND	ND	ND

Notes:

ND = Not detected

µg/kg = micrograms per kilogram

Samples analyzed by Environmental Protection Agency Method 8081A.

All samples are composite samples which were composited by the laboratory

*Screening Levels from USEPA RSLs (2018) unless DTSC (2017) has published a screening value of its own, termed the DTSC-SLs Screening levels were divided by six to ensure that no pesticides may have been present in any of the increments that were composited above the screening levels.

TABLE 5
ANALYTICAL RESULTS FOR DIOXINS AND FURANS IN SOIL
LAUSD Reseda High School PEA Equivalent

Congener	AOC3-B1-D0.5	AOC3-B1-D0.5-DUP	2005 WHO	AOC3-B1-D0.5	AOC3-B1-D0.5-DUP
	(pg/g)	(pg/g)	TEF	(TEF pg/g)	(TEF pg/g)
2,3,7,8-TCDF	0.53	0.54	0.1	0.053	0.054
1,2,3,4,7,8-HxCDD	0.84	0.89	0.1	0.084	0.089
1,2,3,6,7,8-HxCDD	1.2	1	0.1	0.12	0.1
1,2,3,7,8,9-HxCDD	0.96	ND	0.1	0.096	-
1,2,3,6,7,8-HxCDF	4.4	3.9	0.1	0.44	0.39
1,2,3,4,6,7,8-HpCDD	26	25	0.01	0.26	0.25
1,2,3,4,6,7,8-HpCDF	5.4	5	0.01	0.054	0.05
OCDD	280	250	0.0003	0.084	0.075
OCDF	15	13	0.0003	0.0045	0.0039
		sum	pg/g	1.1955	1.0119
		sum	mg/kg	1.2E-06	1.0E-06
		Residential RSL	mg/kg	4.80E-06	4.80E-06
		DTSC residential RG	mg/kg	5.00E-06	5.00E-06

TABLE 6
ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	GRO (C4-C12)	DRO (C13-C22)	ORO (C23-C40)
Units			--	mg/kg	mg/kg	mg/kg
USEPA Test Method			--	8015M	8015M	8015M
SFB RWQCB ESL (human health)			--	**736**	**226**	**10,746**
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	<0.4	<5.0	**5.1**
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	<0.39	<5.0	**5.3**
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	<0.4	<5.0	**4.6J**
AOC4-SV6	AOC4-SV6-5	3/26/2018	5	<0.4	<5.0	**3.3JB**
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	<0.4	<5.0	**5.1B**
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	<0.4	<4.9	**21B**
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	<0.4	<4.9	**5.4B**
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	<0.4	<5.0	**3.2JB**
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	<0.4	<4.9	**2.8JB**
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	<0.39	<4.9	<4.9
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	<0.4	<4.9	**3.6JB**
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	<0.4	<4.9	<4.9
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	<0.4	<4.9	**5.9**
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	<0.4	<4.9	**3.2J**
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	<0.39	<4.9	**4.8J**
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	<0.4	<5.0	**3.7J**
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	<0.4	<4.9	**2.4J**
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	<0.4	<5.0	**2.5J**
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	<0.39	<5.0	<5.0

NOTES:
mg/kg - miligrams/ kilogram
Total petroleum hydrocarbons analyzed by Environmetnal Protection Agency Method 8015M
TPH = total petroleum hydrocarbons
GRO = gasoline range organics
DRO = diesel range organics
ORO = oil range organics
ND = not detected
Showing the San Francisco Regional Board (2016) risk-based direct contact screening levels

TABLE 7
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
LAUSD Reseda High School PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Benzene	2-Butanone	Ethylbenzene	Napthalene	PCE	Toluene	1,2,3-Trichlorobenzene	All Other VOCs
Units			**ft bgs**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
USEPA Test Method			**--**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**
Screening Level			**--**	**330**	**27,000**	**5,800**	**3,800**	**590**	**1,100,000**	**63,000**	**--**
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	**1.8**	ND<9.2	ND<1.8	ND<4.6	ND<1.8	**2.0**	ND<4.6	ND
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	**2.2**	ND<8.9	**0.94J**	ND<4.4	ND<1.8	**2.7**	ND<4.4	ND
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	**2.5**	ND<11	ND<2.2	ND<5.5	ND<2.2	**2.0J**	ND<5.5	ND
AOC4-SV6	AOC4-SV6-5.0	3/26/2018	5	**3.2**	ND<9.4	**1.3J**	ND<4.7	ND<1.9	**3.9**	ND<4.7	ND
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	**1.7J**	ND<10	ND<2.1	ND<5.2	ND<2.1	**1.5J**	ND<5.2	ND
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	**1.6**	ND<8.0	**2.0**	ND<4.0	ND<1.6	**3.0**	ND<4.0	ND
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	**1.7**	**5.9J**	**1.1J**	ND<4.3	ND<1.7	**2.3**	ND<4.3	ND
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	**2.2**	ND<8.7	<1.7	ND<4.3	ND<1.7	**2.5**	ND<4.3	ND
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	**1.0J**	ND<8.3	ND<1.7	ND<4.2	ND<1.7	**1.2J**	ND<4.2	ND
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	**0.97J**	ND<9.1	ND<1.8	ND<4.5	ND<1.8	ND<1.5	ND<4.5	ND
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	**2.3**	**6.1J**	**1.5J**	**1.7J**	**1.2J**	**2.9**	**0.97J**	ND
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	**1.3J**	ND<8.2	ND<1.6	ND<4.1	ND<1.6	**1.2J**	ND<4.1	ND
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.1	ND<1.6	ND<1.6	ND<4.1	ND
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.0	ND<1.6	ND<1.6	ND<4.0	ND
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	ND<1.4	ND<7.1	ND<1.4	ND<3.6	ND<1.4	ND<1.4	ND<3.6	ND
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	ND<1.5	ND<7.4	ND<1.5	ND<3.7	ND<1.5	ND<1.5	ND<3.7	ND
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	ND<1.4	ND<7.0	ND<1.4	ND<3.5	ND<1.4	ND<1.4	ND<3.5	ND

NOTES:
µg/kg - micrograms/ kilogram
Volatile organic compounds analyzed by Environmetnal Protection Agency Method 8260B
VOCs = Volatile organic compounds
PCE = tetrachloroethene
ND = not detected
Screening Levels from USEPA RSLs (2018) unless DTSC (2017) has published a screening value of its own, termed the DTSC-SLs

TABLE 8
ANALYTICAL RESULTS FOR TITLE 22 METALS IN SOIL
LAUSD Reseda High School PEA Equivalent

Sample ID	Sample Date	Sample Depth	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Units		**ft bgs**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**	**mg/kg**
USEPA Test Method		**--**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**7471A**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**	**6010B**
Screening Level [(a)]		**--**	**31**	**12**	**15,000**	**15**	**5.2**	**36,000**	**23**	**3,100**	**80**	**23**	**390**	**1,500**	**390**	**390**	**0.78**	**390**	**23,000**
AOC4-B1-5.0	12/22/2017	5	ND	7.5	160	0.92	2.4	32	7.6	27	5.2	0.021	6.5	35	ND	ND	ND	69	72
AOC4-B1-5.0 DUP	12/22/2017	5	ND	5.9	140	0.76	2.1	29	6.8	24	4.5	0.028	5.8	31	ND	ND	ND	61	65
AOC4-B2-5.0	12/22/2017	5	ND	9.4	200	1.2	3.0	43	9.9	37	7.1	0.025	7.7	45	ND	ND	ND	88	94

[(a)] Screening levels are lower of the USEPA Regional Screening Levels (RSLs) or HERO HHRA Note No.3, Table 1 (October 2015) screening levels. The DTSC school screening level is used for lead. The DTSC background level is used for arsenic

ft bgs = feet below ground surface

mg/kg = milligrams/kilogram

Table 9
Soil Vapor Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	n-Butylbenzene	sec-Butylbenzene	tert-Butylbenzene	Benzene	Dichlorodifluoromethane	Isopropylbenzene	4-Isopropyltoluene	1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	m,p-Xylene	o-Xylene	Tetrachloroethene (PCE)	Toluene
Units		ft	--	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Screening Level (current)				105,000	210,000	210,000	49	50,000	210,000	--	31,500	31,500	50,000	50,000	230	155,000
Screening Level (Future)				7,000	14,000	14,000	3.2	3,333	14,000	--	2,100	2,100	3,333	3,333	15	10,333
AOC4-SV1	AOC4-SV1-5	5	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	259	15
	AOC4-SV1-15	15	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	322	ND
	AOC4-SV1-5	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	226	ND
	AOC4-SV1-5 REP	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	195	ND
	AOC4-SV1-15	15	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	257	ND
	AOC4-SV1-5	5	4/21/2018	ND	ND	9	ND	ND	ND	ND	ND	ND	14	ND	252	ND
	AOC4-SV1-15	15	4/21/2018	12	14	12	ND	ND	11	10	10	10	16	ND	294	ND
AOC4-SV2	AOC4-SV2-5	5	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	186	ND
	AOC4-SV2-5 REP	5	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	197	ND
	AOC4-SV2-15	15	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	173	ND
	AOC4-SV2-5	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	149	ND
	AOC4-SV2-15	15	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	125	ND
AOC4-SV3	AOC4-SV3-5	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	8	ND	322	ND
	AOC4-SV3-15	15	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	448	ND
	AOC4-SV3-5	5	4/21/2018	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	416	ND
	AOC4-SV3-5 REP	5	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	455	ND
	AOC4-SV3-15	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	489	ND
AOC4-SV4	AOC4-SV4-5	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	118	ND
	AOC4-SV4-15	15	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	179	9
AOC4-SV5	AOC4-SV5-5	5	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	AOC4-SV5-15	15	2/27/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11	40
AOC4-SV6	AOC4-SV6-5	5	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	93	ND
	AOC4-SV6-15	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	147	ND
AOC4-SV8	AOC4-SV8-5	5	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	265	ND
	AOC4-SV8-15	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	387	ND
AOC4-SV9	AOC4-SV9-5	5	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	144	ND
	AOC4-SV9-15	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	146	ND
	AOC4-SV9-15 REP	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	150	ND
AOC4-SV10	AOC4-SV10-5	5	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	473	ND
	AOC4-SV10-15	15	4/21/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	465	ND
AOC4-SV11	AOC4-SV11-5	5	5/22/2018	ND	ND	ND	28	ND	ND	ND	ND	ND	ND	ND	296	32
	AOC4-SV11-15	15	5/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	292	ND
AOC4-SV12	AOC4-SV12-5	5	5/22/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	105	ND
	AOC4-SV12-15	15	5/22/2018	ND	ND	ND	98	ND	ND	ND	ND	ND	ND	ND	183	76
AOC4-SV13	AOC4-SV13-5	5	5/22/2018	ND	ND	ND	16	ND	ND	ND	ND	ND	ND	ND	17	16
	AOC4-SV13-15	15	5/22/2018	ND	ND	ND	ND	8	ND	ND	ND	ND	ND	ND	35	ND
	AOC4-SV13-15REP	15	5/22/2018	ND	ND	ND	12	ND	ND	ND	ND	ND	ND	ND	18	14
AOC5-SV1	AOC5-SV1-5	5	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	AOC5-SV1-15	15	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	15
AOC5-SV2	AOC5-SV2-5	5	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	9
	AOC5-SV2-15	15	1/3/2018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	11

Value Exceeds Screening Level
Derivation of the screening levels is explained in text.

Table 10
Sub-Slab Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	m,p-Xylene	o-Xylene	Tetrachloroethene (PCE)	Toluene
Units		**ft**	**--**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**
Screening Level (current)				**1.9**	**2,000**	**2,000**	**9.2**	**6,200**
Screening Level (Future)				**3.2**	**3,333**	**3,333**	**15**	**10,333**
AOC4-SS1	AOC4-SS1	SS	5/22/2018	209	74	22	144	198
AOC4-SS2	AOC4-SS2	SS	5/22/2018	38	ND	ND	446	45
AOC4-SS3	AOC4-SS3	SS	5/22/2018	80	ND	ND	523	62

Value Exceeds Screening Level

Derivation of the screening levels is explained in text.

Table 11
Step-out Soil Sampling
LAUSD Reseda High School PEA Equivalent

Initial Sample Location	COC Exceedance	Depth and Concentration of COC Exceedance at	Stepouts				Step-out restrictions
			No.	Direction	Distance (s)	Max Depth of Step-out COC Exceedance	
AOC1-B1	Arsenic	0.5 ft (13 mg/kg)	2	N	5, 10	No Exceedance	No restrictions
			2	E	5, 10	0.5 ft	No restrictions
			0	S	--	--	Building wall at 3 ft
			2	W	5, 10	No Exceedance	No restrictions
AOC1-B6	Lead	0.5 ft (170 mg/kg)	2	N	5, 10	No Exceedance	No restrictions
			0	E	--	--	Building wall at 5 ft
			2	S	5, 10	No Exceedance	No restrictions
			2	W	5, 10	No Exceedance	No restrictions
AOC1-B8	Arsenic	0.5 ft (16 mg/kg)	0	N	--	--	Utilitity at 3 ft
			0	E	--	--	Utilitity at 3 ft
			3	S	10, 15, 20	0.5 ft	Bushes at 5 ft
			0	W	--	--	Building wall at 5 ft
AOC1-B10	Arsenic	0.5 ft (32 mg/kg)	2	N	5, 10	No Exceedance	
			0	E	--	--	Building wall at 5 ft
			2	S	5, 10	No Exceedance	No restrictions
			2	W	5, 10	0.5 ft	
AOC1-B22	Arsenic	0.5 ft (21 mg/kg)	3	N	5, 10, 15	1.5 ft	Utility at 17 ft
			1	E	5	No Exceedance	Utility at 8 ft
			4	S	5, 10, 15, 20	0.5 ft	Utility at 22 ft
			0	W	--	--	Building wall at 2 ft
AOC1-B34	Lead	0.5 ft (100 mg/kg)	2	N	5, 10	0.5 ft	No restrictions
			0	E	--	--	Building wall at 2 ft
			2	S	5, 10	No Exceedance	No restrictions
			2	W	5, 10	No Exceedance	No restrictions
AOC1-B58	Arsenic	0.5 ft (13 mg/kg)	2	N	5, 10	No Exceedance	Adjusted samples to account for access ramps
			2	E	5, 9	No Exceedance	9 ft sample between B58 and B64
			2	S	5, 10	No Exceedance	Adjusted samples to account for access ramps
			0	W	--	--	Building wall at 2 ft
AOC1-B64	Arsenic	0.5 ft (13 mg/kg)	2	N	5, 10	No Exceedance	Adjusted samples to account for access ramps
			0	E	--	--	Building wall at 2 ft
			2	S	5, 10	No Exceedance	Adjusted samples to account for access ramps
			2	W	5, 9	No Exceedance	9 ft sample between B58 and B64

Table 11
Step-out Soil Sampling
LAUSD Reseda High School PEA Equivalent

Initial Sample Location	COC Exceedance	Depth and Concentration of COC Exceedance at	Stepouts				Step-out restrictions
			No.	Direction	Distance (s)	Max Depth of Step-out COC Exceedance	
AOC1-B77	Arsenic	0.5 ft (19 mg/kg) 1.5 ft (37 mg/kg) 2.5 ft (20 mg/kg)	0	NE	--	--	Building wall at 3 ft
			4	NW	5, 10, 20, 38	2.5 ft	Fence at 40 ft
			3	SE	5, 10, 22	1.5 ft	No restrictions
			2	SW	5, 10	2.5 ft	No restrictions
AOC1-B78	Arsenic	0.5 ft (13 mg/kg) 1.5 ft (16 mg/kg)	0	NE	--	--	Building wall at 3 ft
			3	NW	5, 10, 22	0.5 ft	No restrictions
			1	SE	5	0.5 ft	Utility at 8 ft
			2	SW	5, 10	No Exceedance	No restrictions
AOC1-B81	Arsenic	0.5 ft (16 mg/kg) 2.5 ft (14 mg/kg)	5	NE	5, 10, 15, 20,	0.5 ft	Building prevents step-out 10 feet to
			1	NW	5	No Exceedance	Building wall at 8 ft
			2	SE	5, 10	No Exceedance	No restrictions
			4	SW	5, 10, 15, 20	0.5 ft	Fence at 22 ft
AOC1-B91	Arsenic	0.5 ft (19 mg/kg)	5	N	5, 10, 15, 20,	2.5 ft	No restrictions
			2	E	5, 10	No Exceedance	No restrictions
			2	S	5, 10	0.5 ft	No restrictions
			0	W	--	--	Utility at 3 ft
AOC1-B100	Lead	0.5 ft (83 mg/kg)	1	N	5	No Exceedance	No restrictions
			2	E	5, 10	No Exceedance	No restrictions
			2	S	5, 10	No Exceedance	No restrictions
			2	W	5, 10	No Exceedance	No restrictions
AOC1-B108	Lead/Arsenic	0.5 ft lead (110 mg/kg) 0.5 ft Arsenic (17 mg/kg)	0	N	--	--	Building wall at 2 ft
			1	E	5	No Exceedance	Utility at 9 ft
			2	S	5, 10	No Exceedance	No restrictions
			0	W	--	--	Utility at 3 ft
AOC1-B112	Arsenic	0.5 ft (13 mg/kg)	4	N	5, 10, 15, 20	0.5 ft	No restrictions
			0	E	--	--	Utility line at 4 ft
			0	S	--	--	Building wall at 2 ft
			2	W	5, 10	No Exceedance	No restrictions

Table 12
ESTIMATED VOLUMES OF IMPACTED SOIL
LAUSD Reseda High School PEA Equivalent

Soil Impact Area	COC	Dimensions Feet	Area Square feet	Total Depth Feet	Impacted Soil Volume Cubic Yards	Waste Type
AOC1-B1	Arsenic	15 x 9	135	1.5	7.5	Non-hazardous
AOC1-B6	Lead	10 x 9	90	1.5	5	Non-RCRA hazardous
AOC1-B8	Arsenic	23 x 10	230	1.5	13	Non-hazardous
AOC1-B10	Arsenic	14 x 15	210	1.5	12	Non-hazardous
AOC1-B22	Arsenic	10 x 32	320	1.5	18	Non-hazardous
		10 x 6	60	2.5	6	Non-hazardous
AOC1-B34	Lead	15 x 8	120	1.5	7	Non-hazardous
AOC1-B58	Arsenic	5 x 10	50	1.5	2.8	Non-hazardous
AOC1-B64	Arsenic	5 x 10	50	1.5	2.8	Non-hazardous
AOC1-B77	Arsenic	23 x 12.5	288	1.5	16	Non-hazardous
		29 x 12.5	363	2.5	34	Non-hazardous
		25 x 12.5	312.5	3.5	41	Non-hazardous
AOC1-B78	Arsenic	19.5 x 7.5	146.25	1.5	8.1	Non-hazardous
		10 x 7.5	75	2.5	6.9	Non-hazardous
AOC1-B81	Arsenic	50x10	500	1.5	28	Non-hazardous
		10x10	100	3.5	13	Non-hazardous
AOC1-B91	Arsenic	30 x 8	240	1.5	13	Non-hazardous
		10 x 8	80	3.5	10	Non-hazardous
AOC1-B100	Lead	5 x 5	25	1.5	1.4	Non-hazardous
AOC1-B108	Lead/Arsenic	8 x 8	64	1.5	3.6	Non-hazardous
AOC1-B112	Arsenic	14 x 24	336	1.5	19	Non-hazardous
				Non-hazardous Impacted Soil Volume	261	
				Non-RCRA Hazardous Impacted Soil Volume	5.0	
				Total Impacted Soil Volume	266	

FIGURES

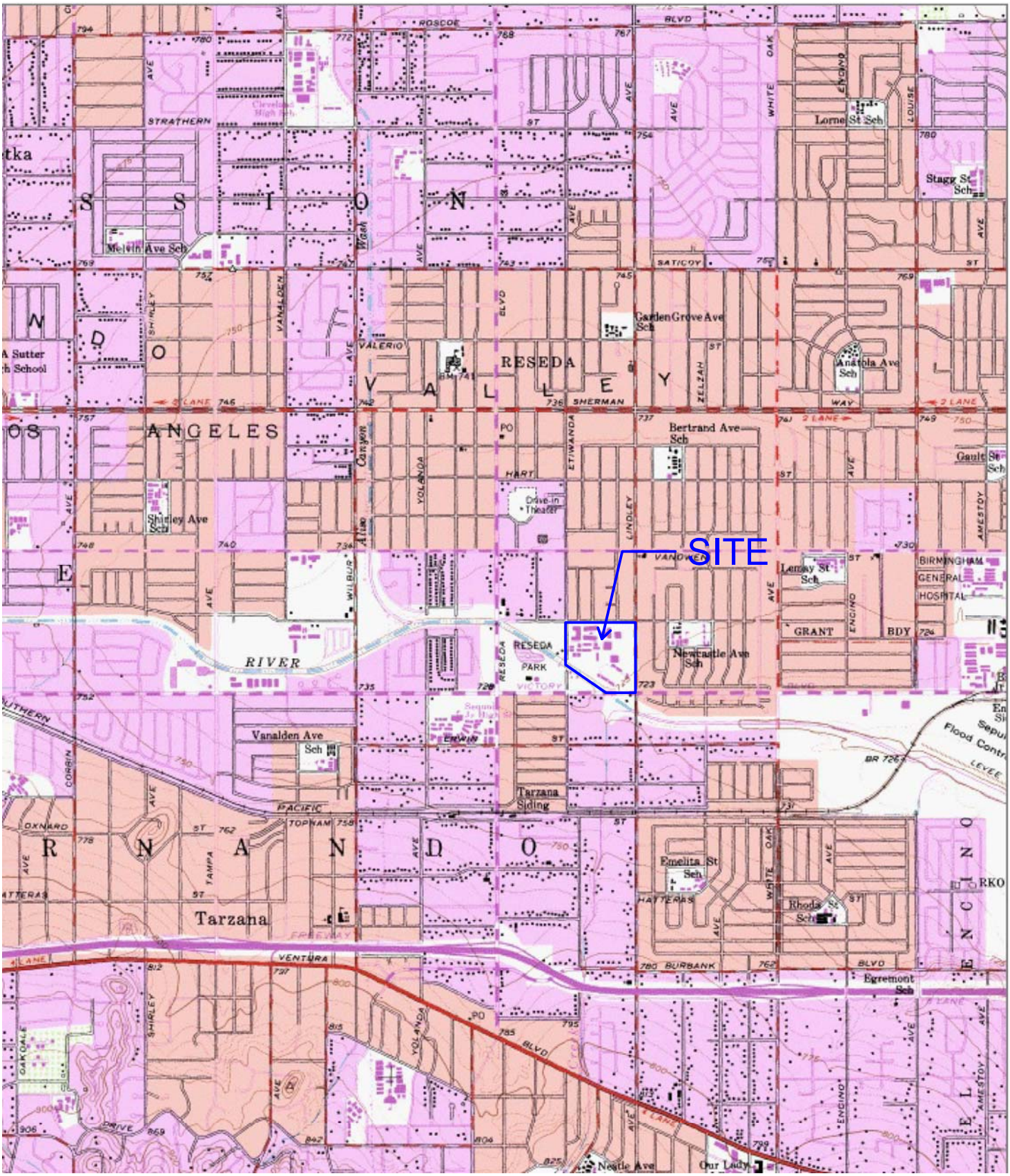


Figure 1

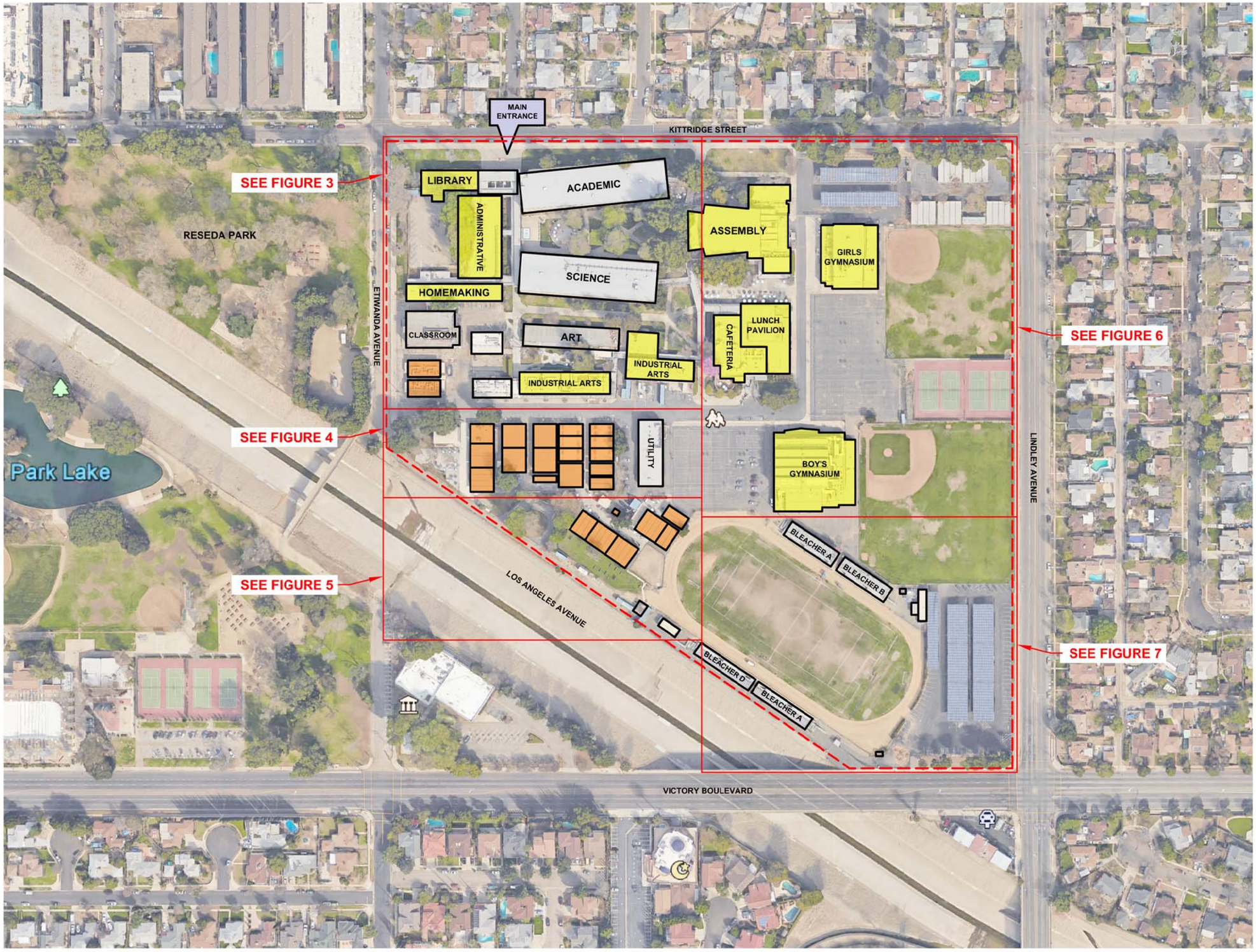
SITE LOCATION MAP

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 1 - Site Location Map.dwg



LEGEND

- SITE BOUNDARY
- BUILDING TO BE REMOVED
- PORTABLE STRUCTURE TO BE REMOVED

N

0 200

Scale In Feet

Figure 2

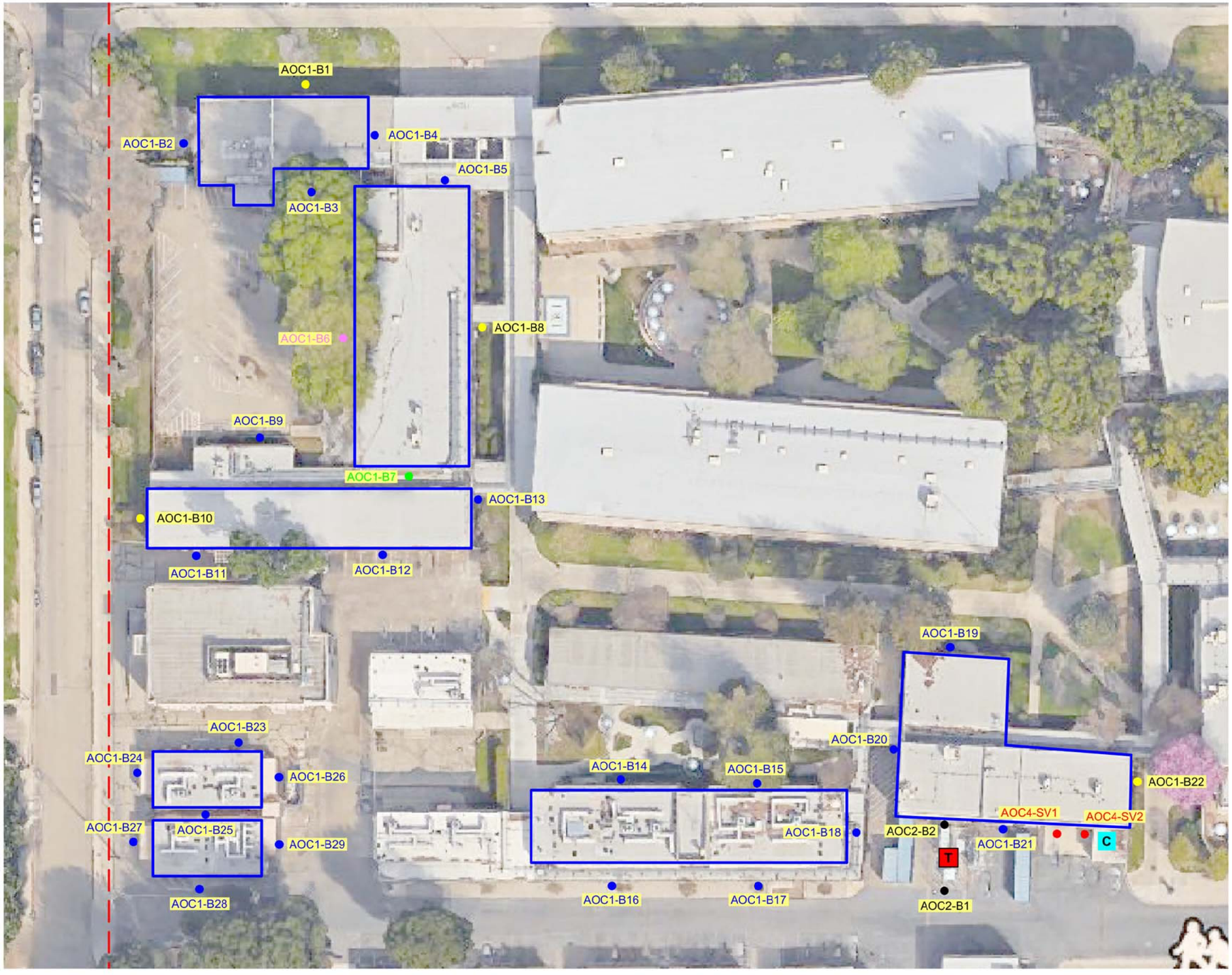
BUILDING LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 2 – Building Locations.dwg



LEGEND

- SITE BOUNDARY
- CLARIFIER
- TRANSFORMER
- BUILDING OUTLINE
- AOC1 SOIL SAMPLE LOCATION
- AOC2 SOIL SAMPLE LOCATION
- AOC4 SOIL VAPOR SAMPLE LOCATION
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/kg
- AOC1 SOIL SAMPLE LOCATION LEAD >80 mg/kg
- SOIL SAMPLE LOCATION (ELIMINATED)

NOTES:

1. Soil step-out boring locations presented on Figures 8-11.
2. Soil vapor step-out locations presented on Figure 19.

N

0 30 60

Scale In Feet

Figure 3

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 3 - Soil & Soil Vapor Sample Locations.dwg

LEGEND

- SITE BOUNDARY
- TRANSFORMER
- BUILDING OUTLINE
- AOC1 SOIL SAMPLE LOCATION
- AOC2 SOIL SAMPLE LOCATION
- AOC5 SOIL VAPOR SAMPLE LOCATION
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/kg
- AOC1 SOIL SAMPLE LOCATION LEAD >80 mg/kg
- SOIL SAMPLE LOCATION (ELIMINATED)

NOTE:
Soil step-out boring locations presented on Figures 12 and 13.

N

0 20 40
Scale In Feet

Figure 4

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS
Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 4 – Soil & Soil Vapor Sample Locations.dwg

LEGEND

- SITE BOUNDARY
- TRANSFORMER
- BUILDING OUTLINE
- AOC1 SOIL SAMPLE LOCATION
- AOC3 SOIL SAMPLE LOCATION
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/kg

NOTE:
Soil step-out boring locations presented on Figure 14.

N

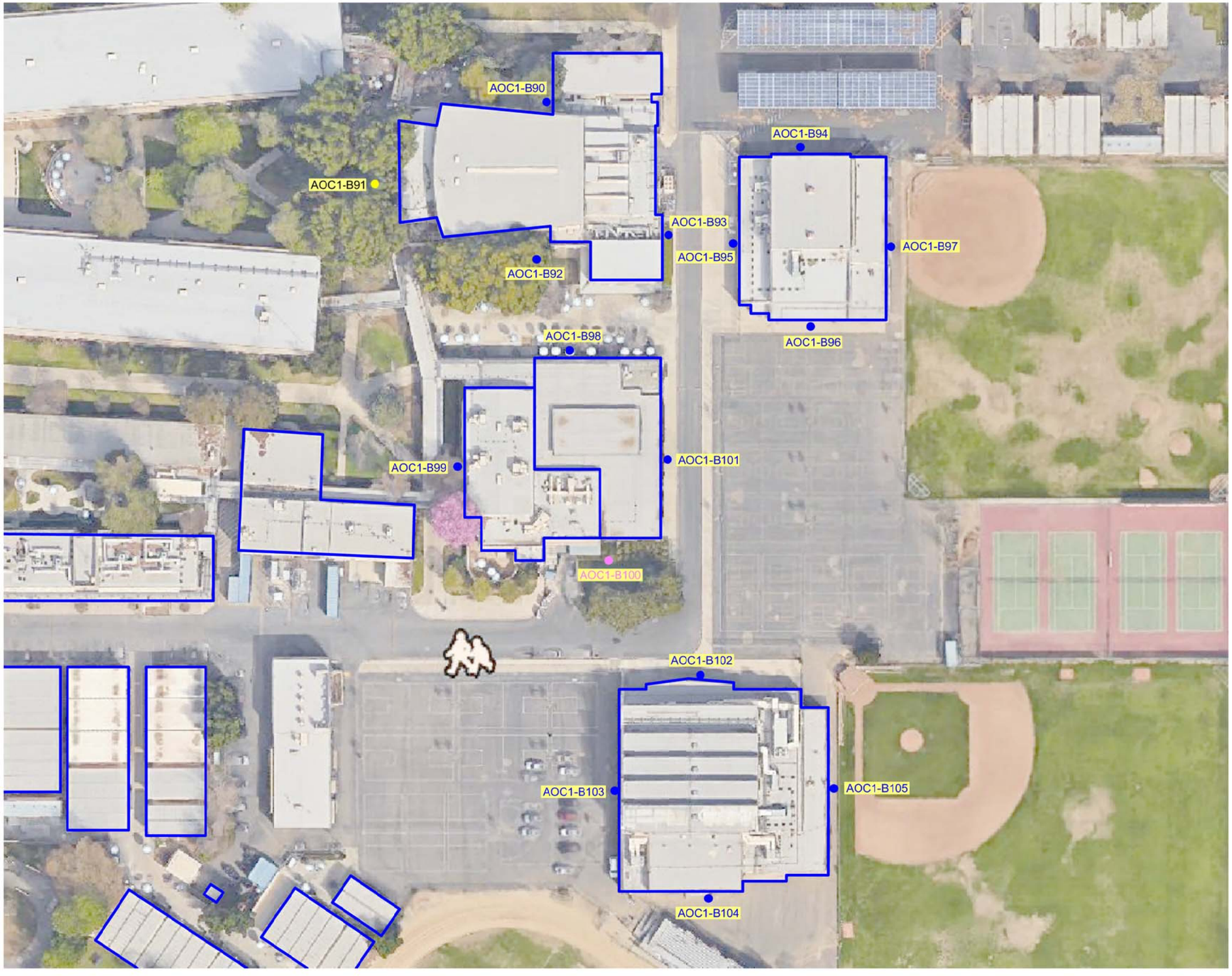
0 20 40
Scale In Feet

Figure 5
SOIL SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS
Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 5 – Soil Sample Locations.dwg



LEGEND

- SITE BOUNDARY
- BUILDING OUTLINE
- AOC1 SOIL SAMPLE LOCATION
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/kg
- AOC1 SOIL SAMPLE LOCATION LEAD >80 mg/kg

NOTE:
Soil step-out boring locations presented on Figures 15 and 16.

N

0 40 80
Scale In Feet

Figure 6
SOIL SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS
Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 6 – Soil Sample Locations.dwg

LEGEND

- SITE BOUNDARY
- BUILDING OUTLINE
- AOC1 SOIL SAMPLE LOCATION
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/Kg
- AOC1 SOIL SAMPLE LOCATION ARSENIC >12 mg/kg AND LEAD >80 mg/kg

NOTE:
Soil step-out boring locations presented on Figures 17 and 18.

N

0 20 40
Scale In Feet

Figure 7
SOIL SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS
Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 7 – Soil Sample Locations.dwg

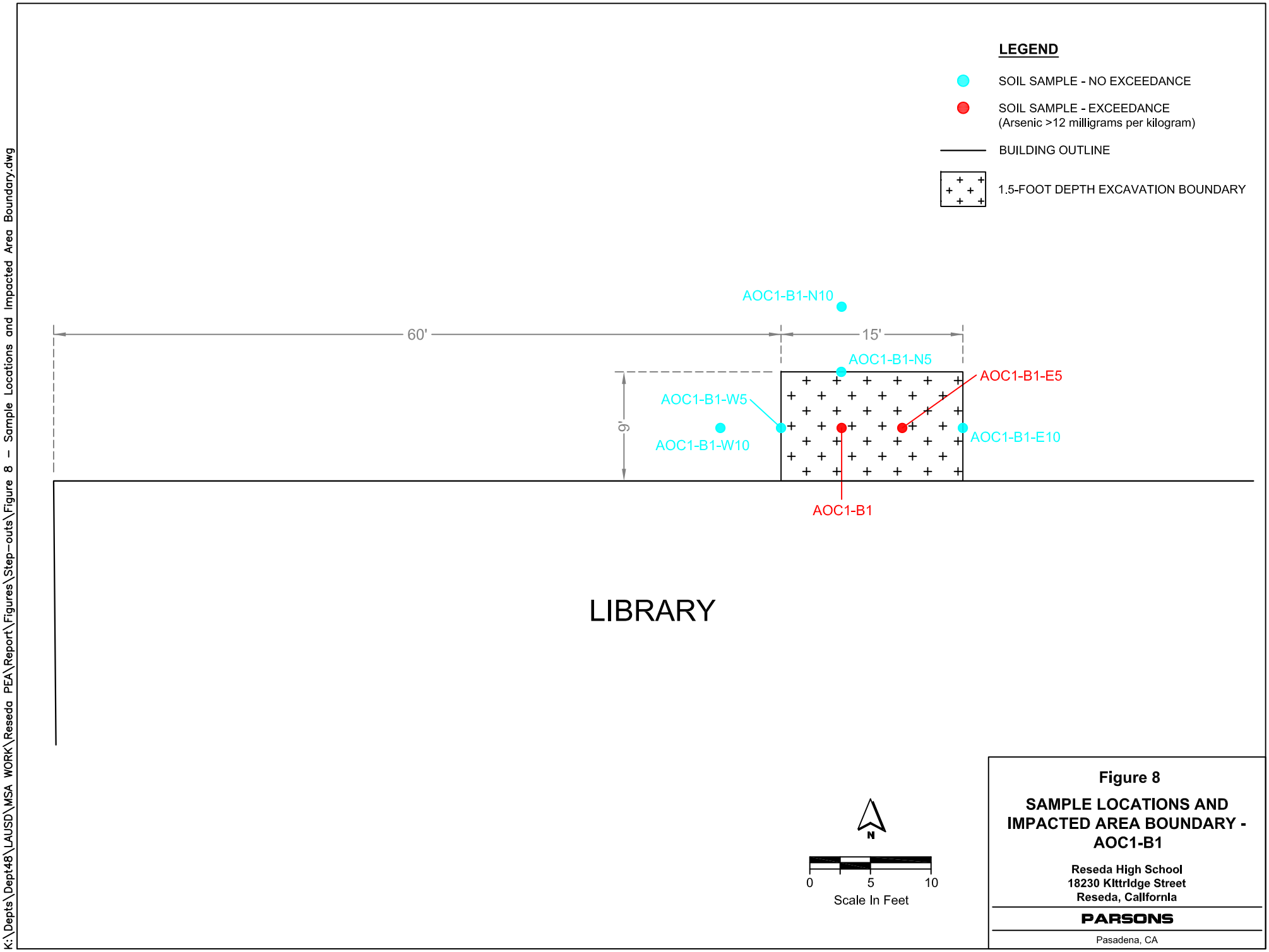


Figure 8

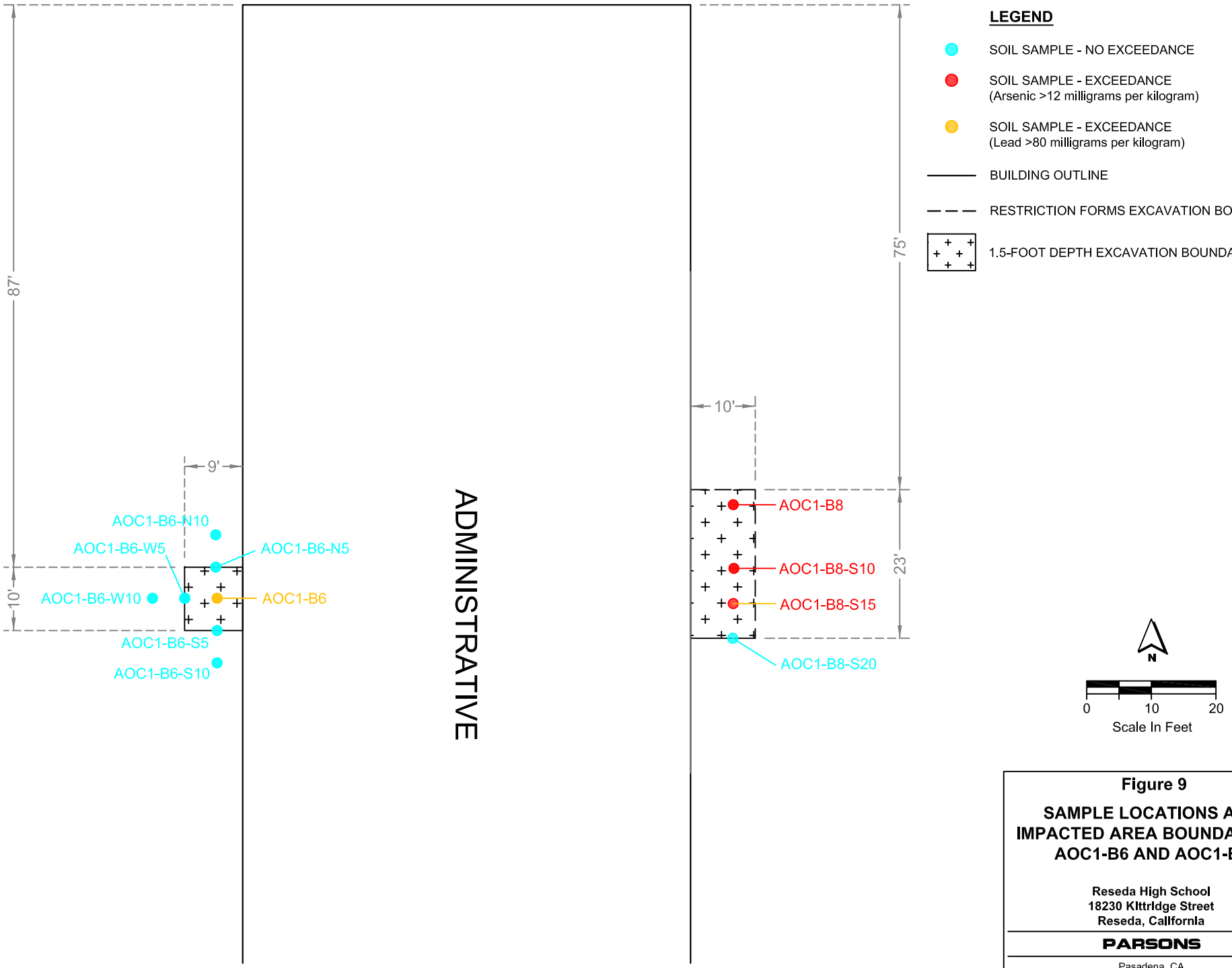
SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B1

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 8 - Sample Locations and Impacted Area Boundary.dwg



K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 9 -Sample Locations and Impacted Area Boundaries.dwg

Figure 9

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES - AOC1-B6 AND AOC1-B8

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 10 - Sample Locations and Impacted Area Boundary.dwg

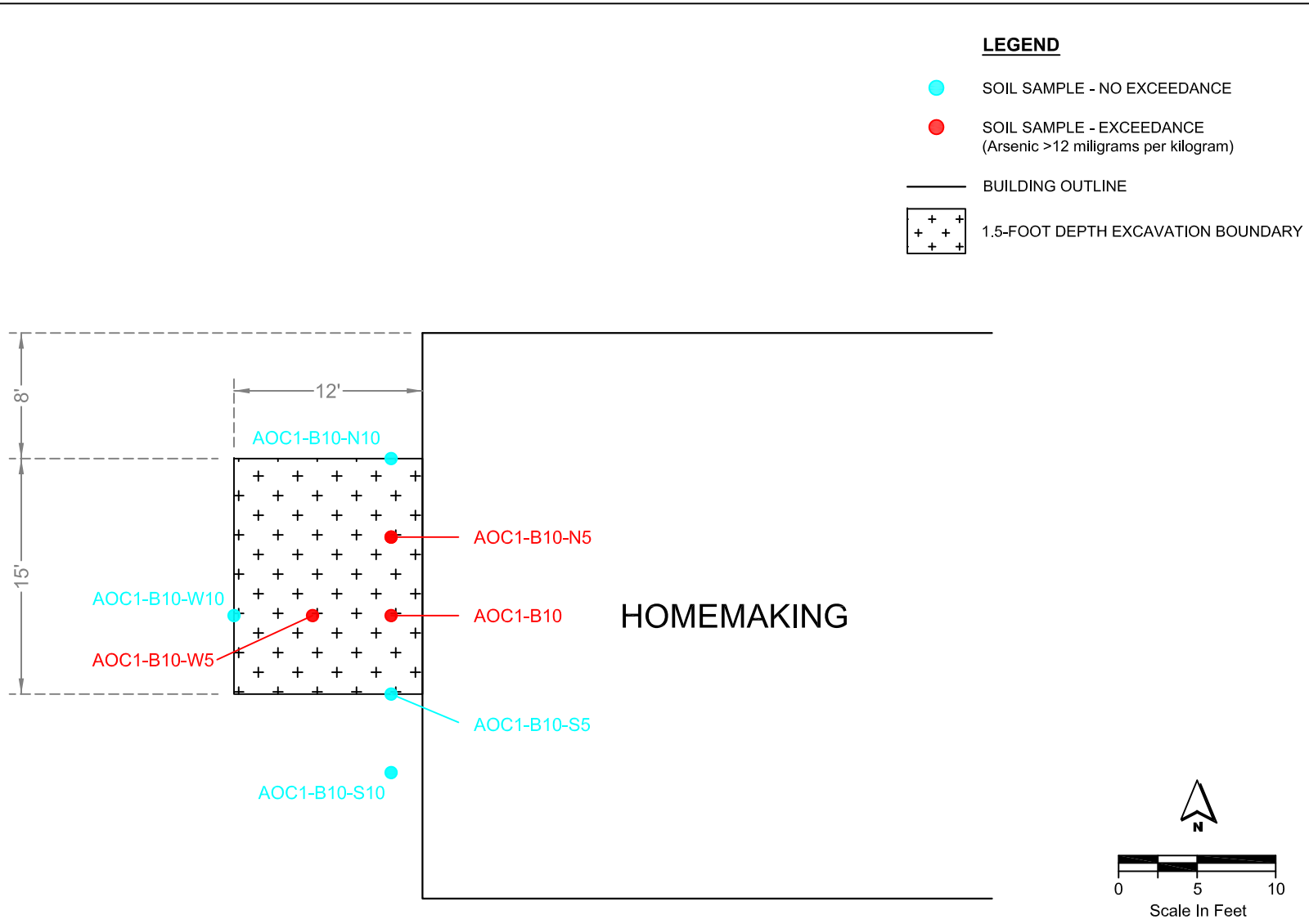


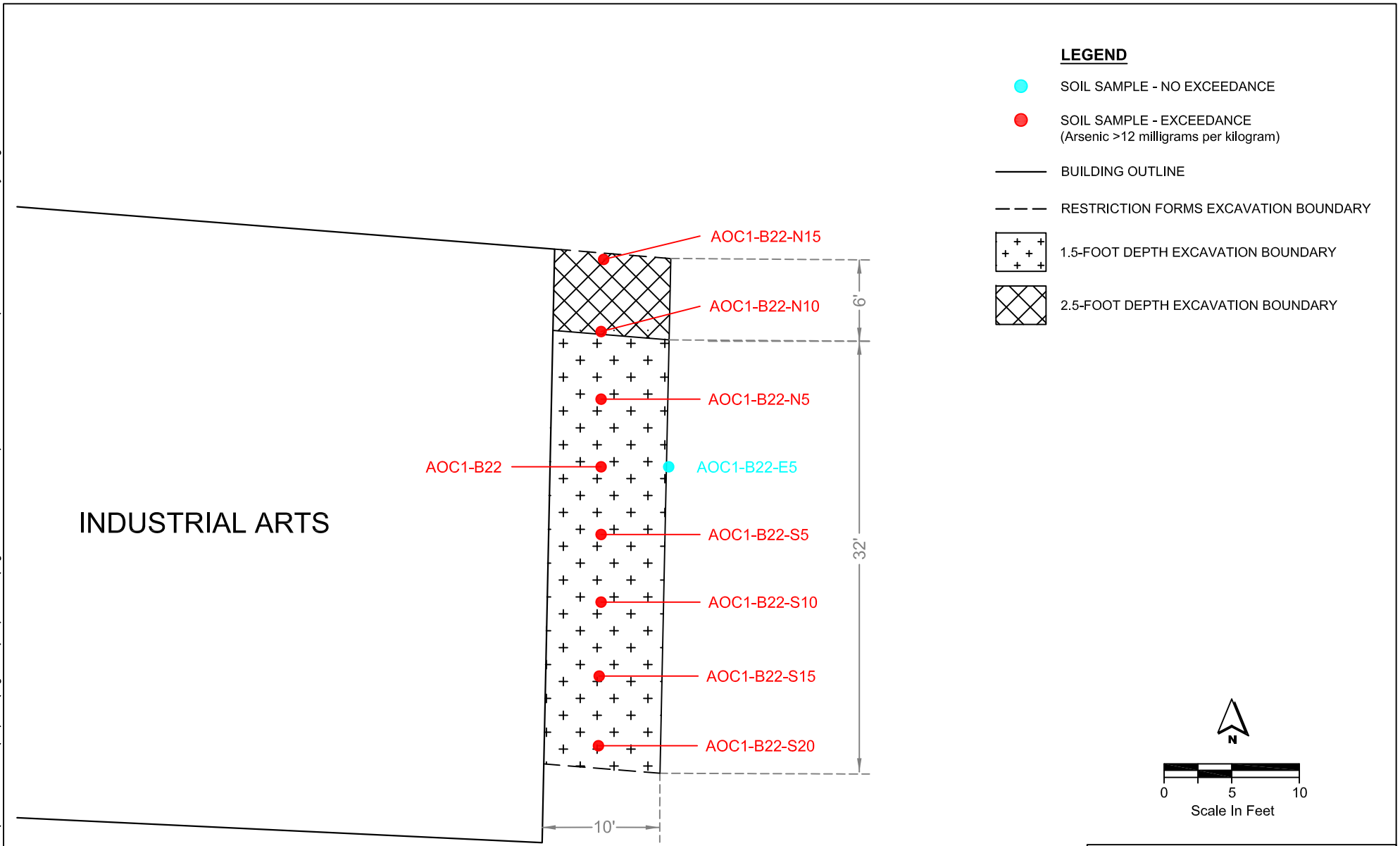
Figure 10

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY-AOC1-B10

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA



K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 11 - Sample Locations and Impacted Area Boundary.dwg

Figure 11

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B22

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

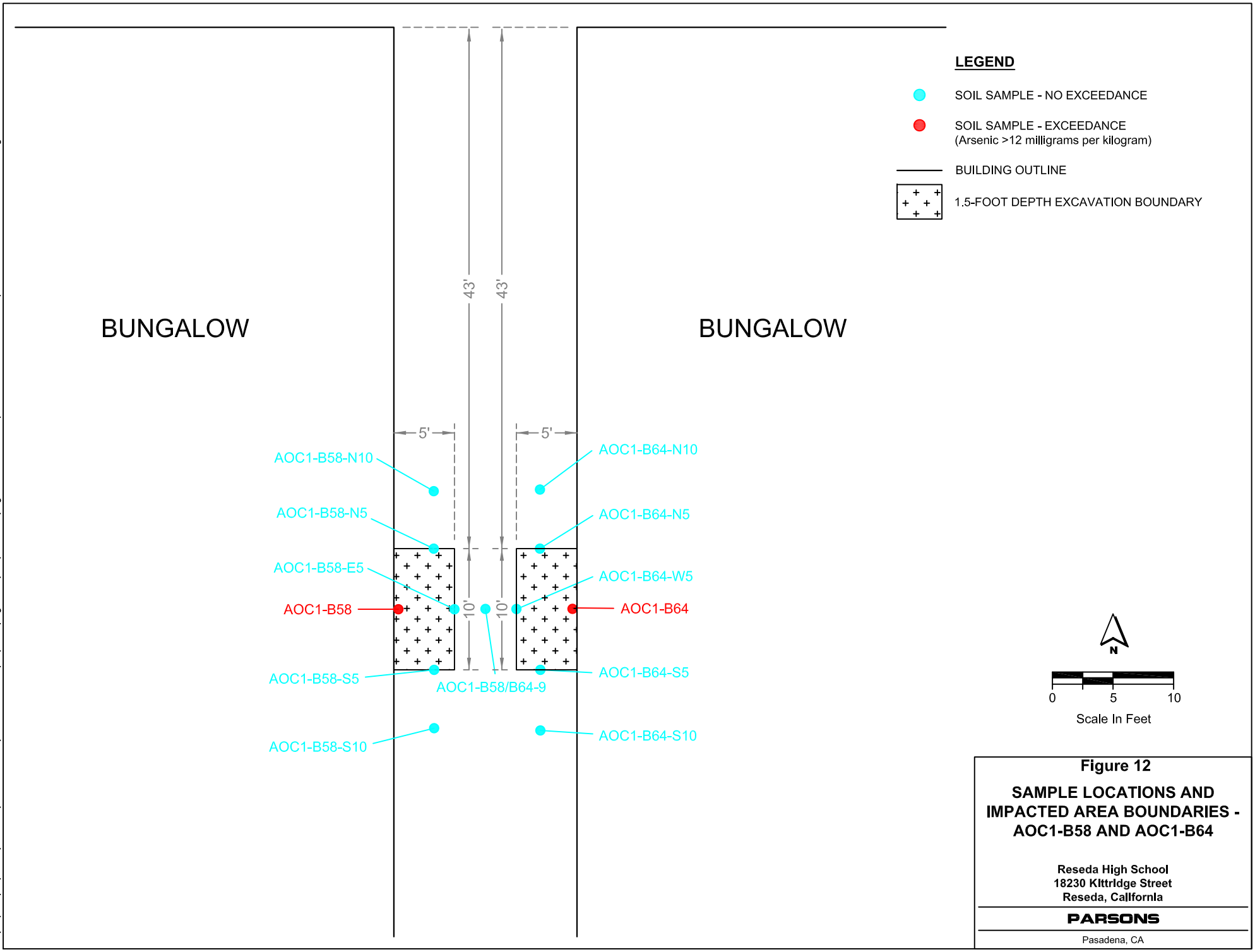


Figure 12

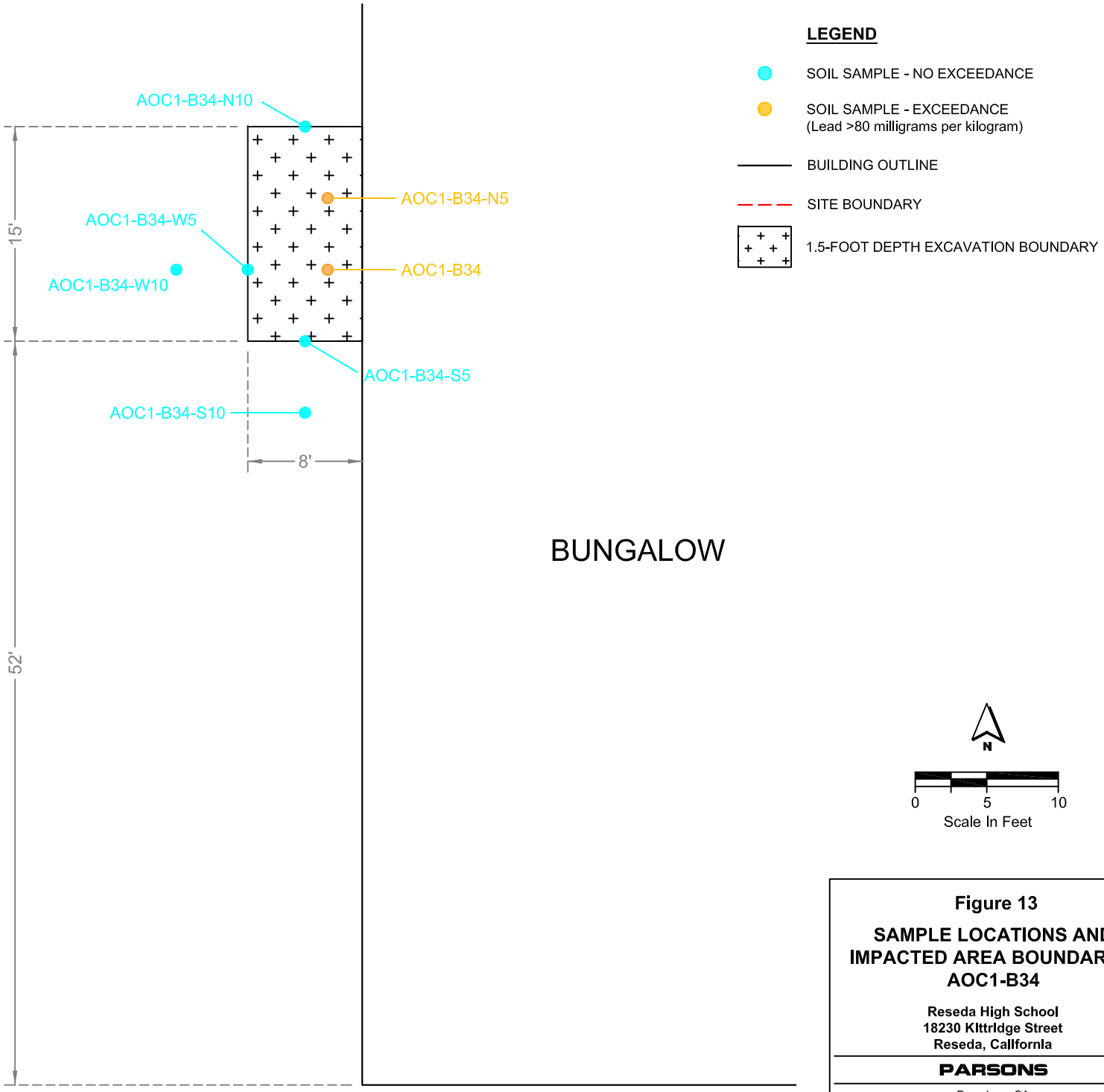
SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES - AOC1-B58 AND AOC1-B64

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 12 -Sample Locations and Impacted Area Boundaries.dwg



K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 13 - Sample Locations and Impacted Area Boundary.dwg

Figure 13

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B34

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

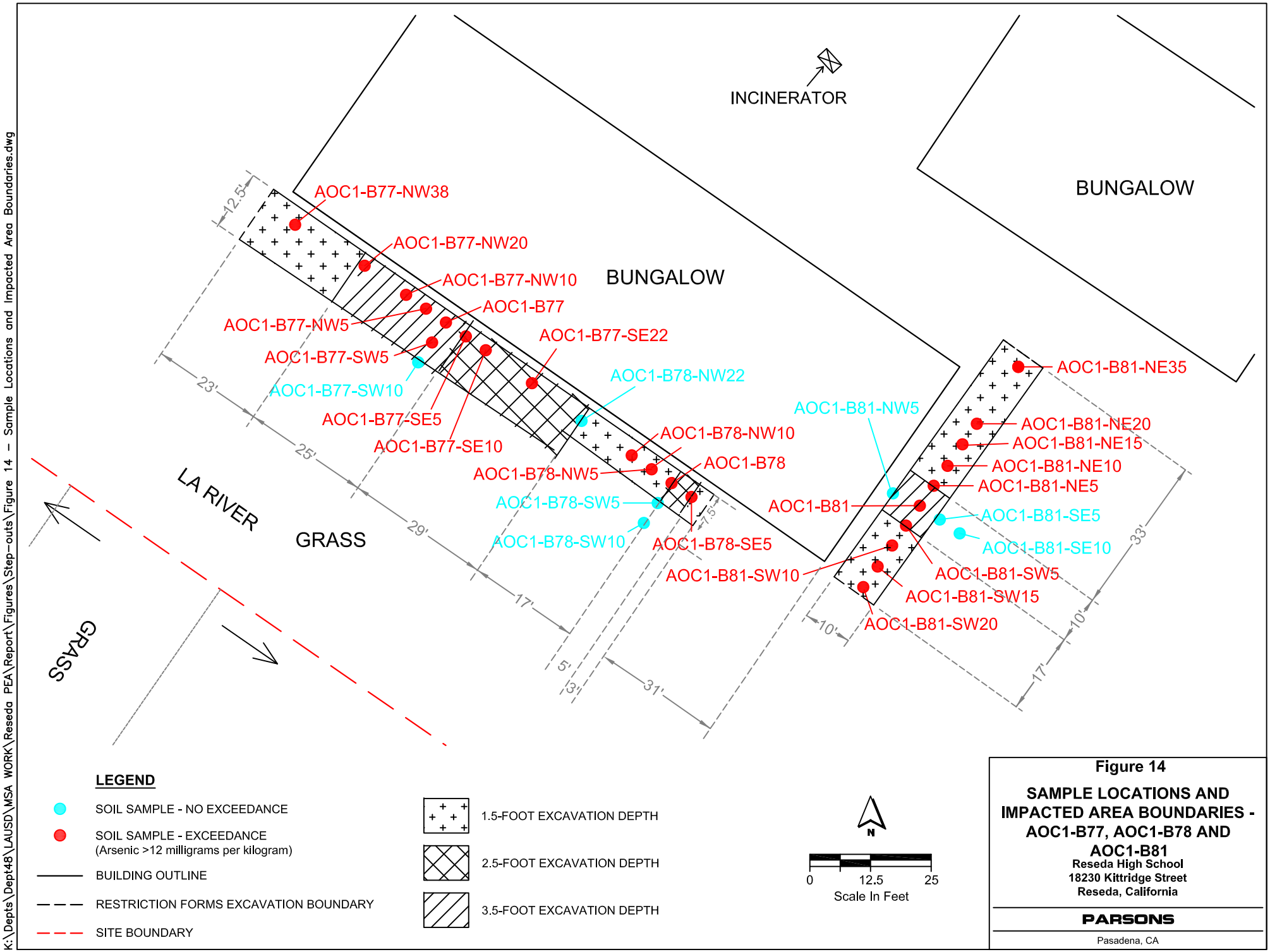


Figure 14

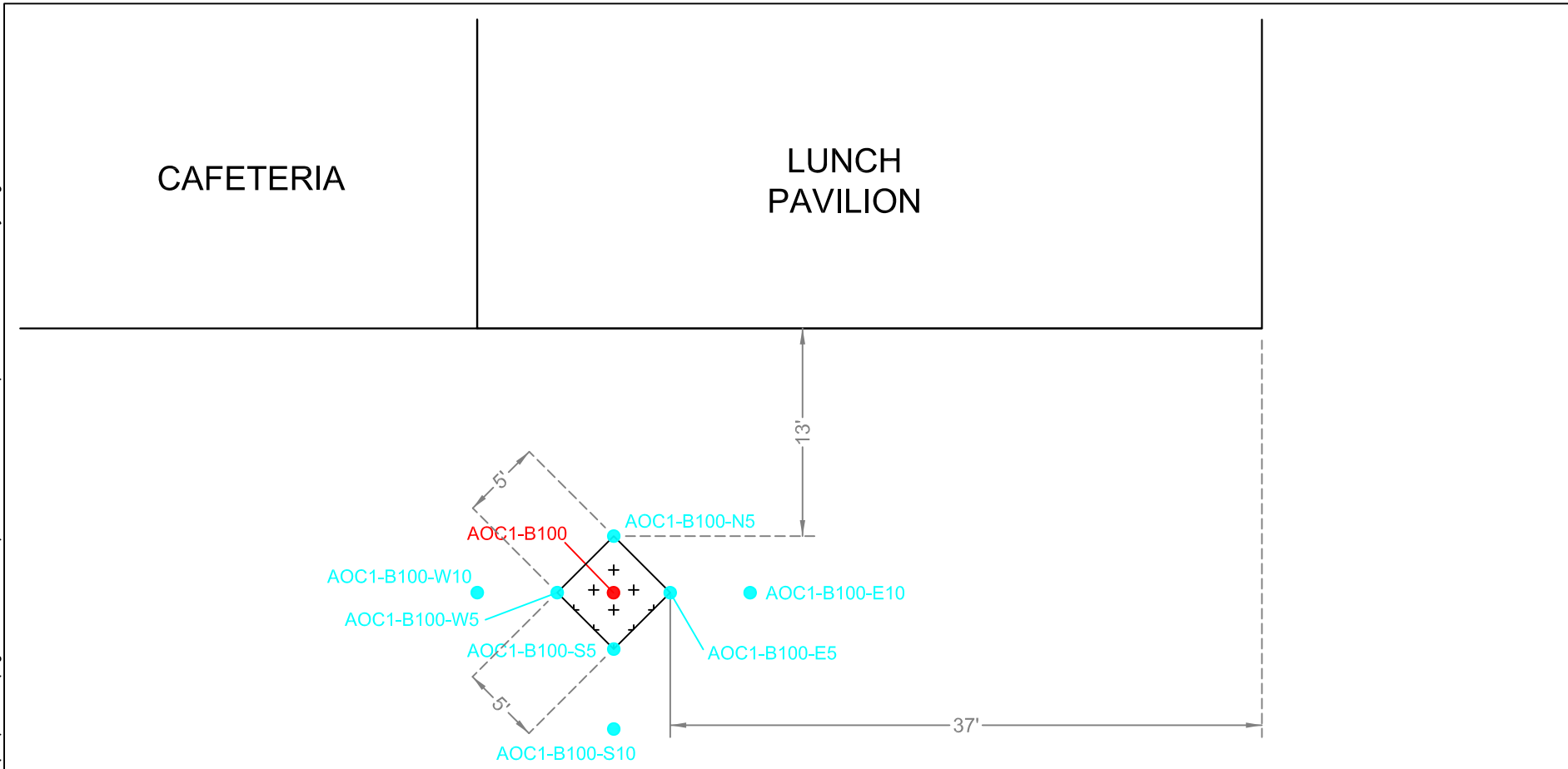
SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARIES - AOC1-B77, AOC1-B78 AND AOC1-B81

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 14 - Sample Locations and Impacted Area Boundaries.dwg



N

0 5 10

Scale In Feet

LEGEND

- SOIL SAMPLE - NO EXCEEDANCE
- SOIL SAMPLE - EXCEEDANCE (Lead >80 milligrams per kilogram)
- BUILDING OUTLINE
- 1.5-FOOT DEPTH EXCAVATION BOUNDARY

Figure 15

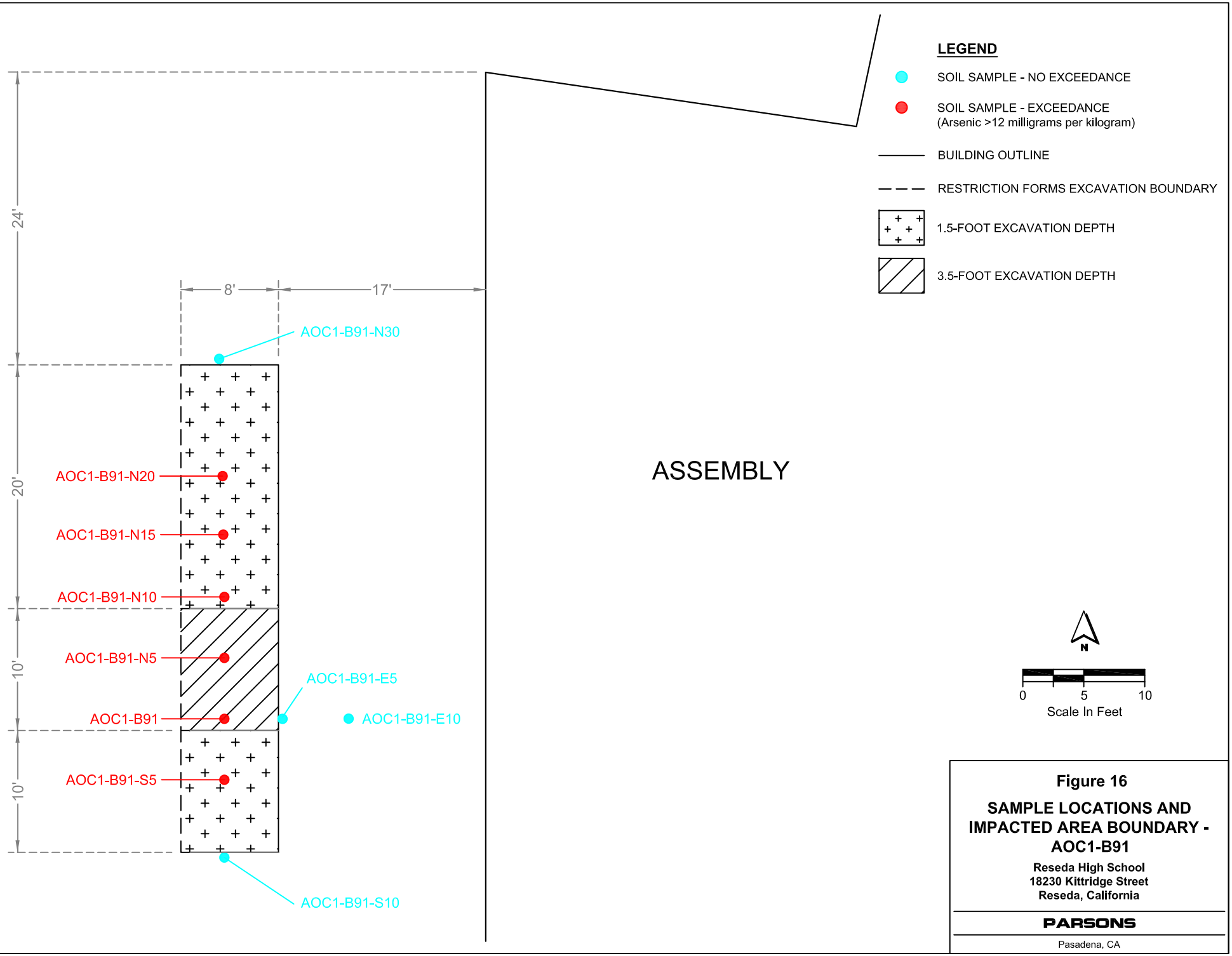
SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B100

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 15 - Sample Locations and Impacted Area Boundary.dwg



K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 16 - Sample Locations and Impacted Area Boundary.dwg

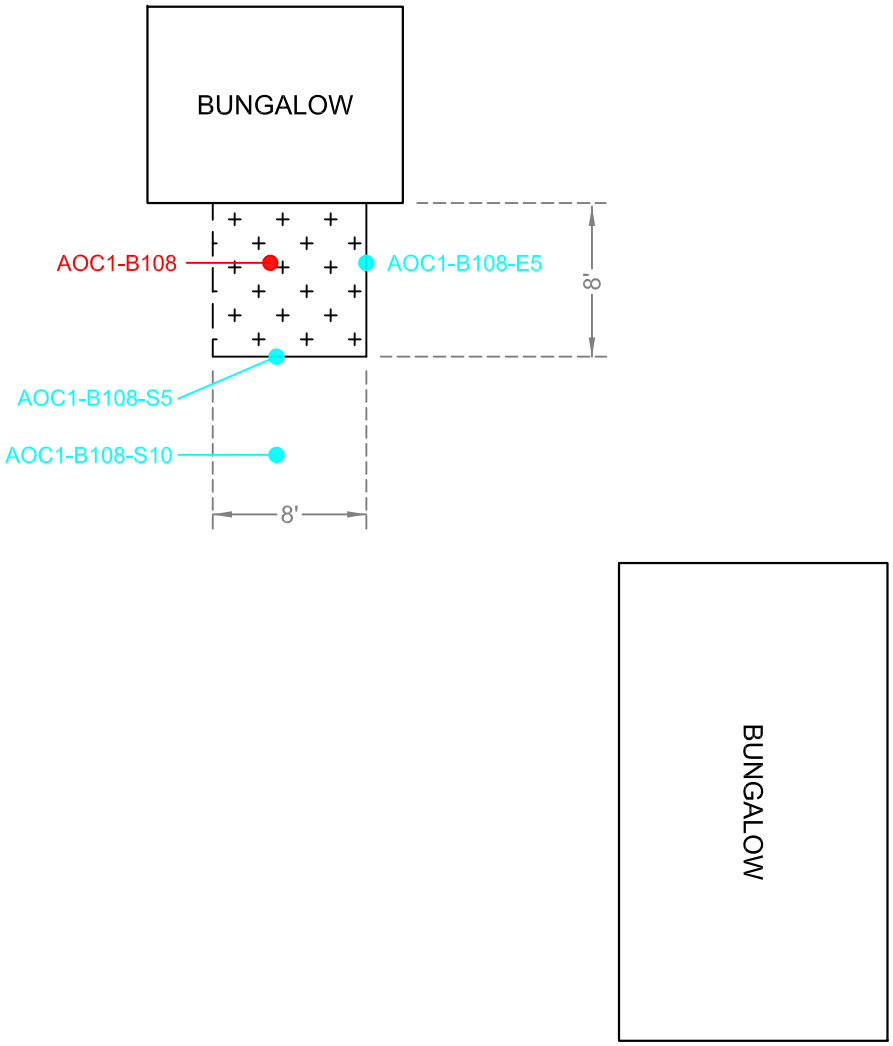
Figure 16

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B91

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA



LEGEND

- SOIL SAMPLE - NO EXCEEDANCE
- SOIL SAMPLE - EXCEEDANCE (Arsenic >12 milligrams per kilogram Lead >80 milligrams per kilogram)
- BUILDING OUTLINE
- RESTRICTION FORMS EXCAVATION BOUNDARY
- 1.5-DEPTH FOOT EXCAVATION BOUNDARY

N

0 5 10

Scale In Feet

Figure 17

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B108

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

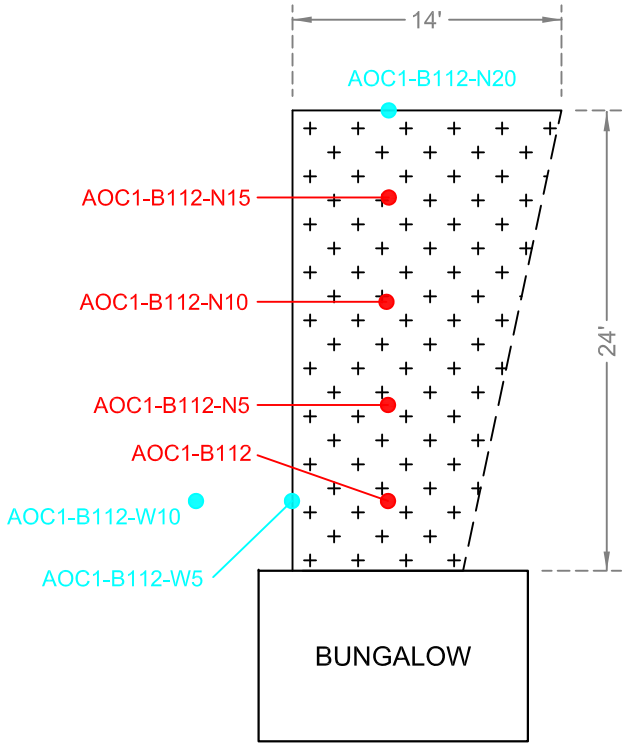
Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 17 - Sample Locations and Impacted Area Boundary.dwg

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Step-outs\Figure 18 - Sample Locations and Impacted Area Boundary.dwg

LEGEND

- SOIL SAMPLE - NO EXCEEDANCE
- SOIL SAMPLE - EXCEEDANCE (Arsenic >12 milligrams per kilogram)
- BUILDING OUTLINE
- RESTRICTION FORMS EXCAVATION BOUNDARY
- 1.5-FOOT EXCAVATION DEPTH



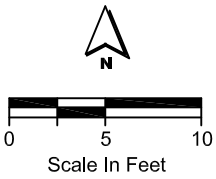


Figure 18

SAMPLE LOCATIONS AND IMPACTED AREA BOUNDARY - AOC1-B112

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

LEGEND

- SOIL VAPOR SAMPLE - NO EXCEEDANCE
- SOIL VAPOR SAMPLE - EXCEEDANCE
- SITE BOUNDARY
- BUILDING OUTLINE
- C — CLARIFIER
- T — TRANSFORMER
- SV — SOIL VAPOR PROBE
- SS — SUB SLAB SAMPLE

AOC4-SV13

AOC4-SV11

AOC4-SS1

AOC4-SS2

AOC4-SV9

AOC4-SV10

AOC4-SS3

AOC4-SV6

AOC4-SV3

AOC4-SV1

AOC4-SV2

C

T

AOC4-SV5

AOC4-SV4

AOC4-SV8

AOC4-SV12

N

0 30 60

Scale in Feet

Figure 19

SOIL VAPOR SAMPLE LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Depts65\LAUSD\45A WORK\Reseda PSA\Report\Figures\Step--outs\Figure 19 - Soil Vapor Sample Locations.dwg

APPENDIX A

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

August 24, 2017
Project No. 210095004

Mr. Patrick Schanen
Los Angeles Unified School District
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

Subject: Preliminary Environmental Assessment Equivalent Work Plan
Reseda High School
18230 Kittridge Street
Reseda, California

Dear Mr. Schanen:

Ninyo & Moore has prepared this Preliminary Environmental Assessment-Equivalent (PEA-E) work plan on behalf of the Los Angeles Unified School District (LAUSD or District) for Reseda High School located at 18230 Kittridge Street in Reseda, California (site, Figure 1). The scope of work consists of collecting soil and soil vapor samples in areas of planned demolition, modernization, and construction activities associated with the Reseda High School Comprehensive Modernization Project (Project; Figure 2).

BACKGROUND

The Los Angeles Unified School District (LAUSD) is planning demolition, modernization, and construction activities associated with the Reseda High School Comprehensive Modernization Project. As part of this effort, Ninyo & Moore prepared a Phase I Environmental Site Assessment (ESA) for the site, dated July 31, 2017. Review of the Phase I ESA reported the following areas of environmental concern (AOCs; Table 1) as defined in ASTM International Standards E1527 13 currently or historically located on site. Site and building locations are shown on Figures 1 and 2, respectively.

Table 1 – Areas of Concern (AOCs)		
AOC	**Reference**	**REC**
Site Concerns		
1. Potential LBP material, arsenic, termiticides, and PCBs in shallow soils.	Phase I ESA (Ninyo & Moore, 2017).	1. OCPs, LBP, arsenic, and PCBs around the exterior of the buildings and in shallow soil surrounding the buildings.
2. Potential PCBs in shallow soils from pad-mounted transformer.	Phase I ESA (Ninyo & Moore, 2017).	2. PCBs in shallow soil surrounding pad-mounted transformer.
3. Area near incinerator.	Phase I ESA (Ninyo & Moore, 2017).	3. Dioxins and Furans potentially in soil.
4. Area near clarifier.	Phase I ESA (Ninyo & Moore, 2017).	4. TPHs, VOCs, Title 22 Metals, and PCBs potentially in soil or soil vapor.
5. Area near suspected location of historical spray paint booths.	Phase I ESA (Ninyo & Moore, 2017).	5. TPHs and VOCs potentially in soil or soil vapor.

Notes:
AOC – area of concern
ESA – Environmental Site Assessment
LBP – lead based paint
OCPs – organochlorine pesticides
PCBs – polychlorinated biphenyls
REC - recognized environmental condition
TPHs – total petroleum hydrocarbons
VOCs – volatile organic compounds

The above AOCs were identified based on the following recognized environmental conditions (RECs) for the site within the planned Project limits:

- Based on the age of the current site buildings, persistent termiticides (organochlorine pesticides [OCPs]), lead (from lead based paint [LBP]), and polychlorinated biphenyls (PCBs) may be present in shallow soil around building foundations.
- PCB-containing materials may be present in soil from on-site pad mounted transformer installed prior to 1979.
- Based on the former use of the incinerator to burn solid wastes, the likely presence of burnt material surrounding the incinerator.
- One inactive clarifier associated with the former automotive shop adjacent to the south of the Industrial Arts building (including a potential vapor encroachment condition).
- The former presence of spray paint booths on-site (including a potential vapor encroachment condition) based on the potential for releases from former leaks.
- Arsenic in shallow soil underneath asphaltic concrete pavement may be present due to the LAUSD's former standard practice of applying herbicides for weed control containing this metal prior to paving.

For the RECs mentioned above, Ninyo & Moore recommended the following:

- In locations of future construction, the possible presence of PCBs, OCPs, arsenic, and lead in shallow soil at the site should be assessed in the form of a PEA-E work plan and in general accordance with California Department of Toxic Substances Control (DTSC) guidance documents.

- If construction or demolition activities are planned for buildings near the clarifier, soil and soil vapor should be evaluated to determine the extent of site contamination, if any.
- This Preliminary Environmental Assessment-Equivalent (PEA-E) work plan is meant to evaluate the RECs reported in the Phase I ESA within the planned Project limits.

PEA FIELD SAMPLING PLAN (FSP)

This field sampling plan (FSP) has been prepared to generally describe the procedures that will be used to conduct the PEA-E investigation at the site. The results from this PEA-E will be used to provide sufficient information to evaluate the potential health risk to students and faculty at the site using the PEA screening evaluations. The sampling rationale is designed to evaluate those locations that will be disturbed during the proposed construction activities and that would likely contain the highest concentrations of constituents of potential concern, if present.

The secondary objective of the sampling is to evaluate the general extent of impact in order to evaluate immediate potential threats and scope removal and remediation needs. Sample results from the FSP will be used to evaluate the need for expedited response/mitigation, locate those areas with the highest levels of impact, and evaluate site remediation, if needed.

The boring locations, sample depths, rationale, and proposed analyses for each sampling location are provided in Table 2. Sampling locations are shown on Figures 3 through 7.

Table 2 – Soil and Soil Vapor Sampling Rationale

Sample Location	Sample ID	Depth (feet bgs)	Proposed Analyses*	Sample Location Rationale
AOC1				
AOC1-B1 through AOC1-B115	AOC1-B1 through AOC1-B115-0.5	0-0.5	LBP, arsenic, OCPs (composite 4 to 6 samples). 10% samples for PCBs	Evaluate potential impacts in shallow soil from LBP, arsenic, OCPs, and PCBs near the site buildings
	AOC1-B1 through AOC1-B115-1.5	1.0-1.5	Archive sample	
	AOC1-B1 through AOC1-B115-2.5	2.0-2.5	Archive sample	
Total Soil Samples from AOC1		**345**		
Total Borings		**115**		
AOC2				
AOC2-B1 and AOC2-B2	AOC2-B1 and AOC2-B2-0.5	0-0.5	PCBs	Evaluate potential impacts in shallow soil from PCBs near pad-mounted transformer
	AOC2-B1 and AOC2-B2-1.5	1.0-1.5	Archive sample	
	AOC2-B1 and AOC2-B2-2.5	2.0-2.5	Archive sample	
Total Soil Samples from AOC2		**6**		
Total Borings		**2**		

Table 2 – Soil and Soil Vapor Sampling Rationale

Sample Location	Sample ID	Depth (feet bgs)	Proposed Analyses*	Sample Location Rationale
AOC3				
AOC3-B1	AOC3-B1-0.5	0-0.5	Dioxins and Furans	Evaluate potential impacts in shallow soil from dioxins and furans near incinerator
	AOC3-B1-1.5	1.0-1.5	Archive sample	
	AOC3-B1-2.5	2.0-2.5	Archive sample	
Total Soil Samples from AOC3		**3**		
Total Borings		**1**		
AOC4				
AOC4-B1 and AOC4-B2	AOC4-B1 and AOC4-B2-5.0	5.0-5.5	TPHs, Title 22 Metals, PCBs, VOCs	Evaluate potential impacts in soil from TPHs, Title 22 Metals, PCBs, and VOCs near clarifier
	AOC4-B1 and AOC4-B2-10.0	10.0-10.5	Archive sample	
	AOC4-B1 and AOC4-B2-15.0	15.0-15.5	Archive sample	
AOC4-SV1 and AOC4-SV2	AOC4-SV1 and AOC4-SV2-5.0	5.0	VOCs	Evaluate potential impacts in soil vapor from VOCs near clarifier
	AOC4-SV1 and AOC4-SV2-15.0	15.0	VOCs	
Total Soil Samples from AOC4		**6**		
Total Soil Vapor Samples from AOC4		**4**		
Total Borings		**2**		
AOC5				
AOC5-SV1 and AOC5-SV2	AOC5-SV1 and AOC5-SV2-5.0	5.0	VOCs	Evaluate potential impacts in soil vapor from VOCs near suspected location of historical spray paint booths
	AOC5-SV1 and AOC5-SV2-15.0	15.0	VOCs	
Total Soil Vapor Samples from AOC5		**4**		
Total Borings		**2**		

Notes:
*OCPs (composite a maximum of 4 samples, around same building at same depth)
*Archive sample for possible future analysis
Duplicate samples will be collected and analyzed at a rate of 10 percent
Equipment blanks will be collected each day for each test method and sampling technique
AOC – area of concern
EPA – United States Environmental Protection Agency
ID – identification
LBP – lead-based paint
OCPs – organochlorine pesticides
PCBs – polychlorinated biphenyls
SV – soil vapor
TPHs – total petroleum hydrocarbons
VOCs – volatile organic compounds

The following table summarizes the requested analyses and the requirements for sample containers, preservations, and holding times.

Table 3 – Soil and Soil Vapor Collection Requirements

Parameter	Methods	Sample Container	Preservative	Holding Time
Soil				
OCPs	EPA 8081A	4-oz glass jar or sleeve	None, 4 °C	14 days
PCBs	EPA 8082	4-oz glass jar or sleeve	None, 4 °C	14 days
Lead	EPA 6010B	4-oz glass jar or sleeve	None, 4 °C	180 days
Arsenic	EPA 6010B	4-oz glass jar or sleeve	None, 4 °C	180 days
Dioxins and Furans	EPA Method 8290A	4-oz glass jar or sleeve	None, 4 °C	30 days
Title 22 Metals	EPA 6010B/7471	4-oz glass jar or sleeve	None, 4 °C	180 days
TPHs	EPA 8015M	4-oz glass jar or sleeve	None, 4 °C	14 days
VOCs	EPA 8260B/5035	3-40 ml glass VOA vials	Sodium bisulfate, methanol	14 days
Soil Vapor				
VOCs	8260B	Gas-tight glass syringes with Teflon® seals	None	30 minutes

Notes:
EPA - United States Environmental Protection Agency
ml - milliliter
OCPs – organochlorine pesticides
oz - ounce
PCBs – polychlorinated biphenyls
TPHs – total petroleum hydrocarbons
VOA – volatile organic analysis
VOCs – volatile organic compounds
°C - degrees Celsius

Field duplicates will be collected and analyzed at a rate of ten percent of primary soil and soil vapor samples. For OCPs, where composite samples will be prepared and analyzed, every 10th composite sample will be prepared (independently) in duplicate and analyzed. Equipment blanks will be collected each day for each test method and sampling technique. A trip blank will be collected at the rate of one per piece of equipment used per day and submitted to the laboratory for analysis.

Ninyo & Moore appreciates the opportunity to be of service to you on this project.

Respectfully submitted,
NINYO & MOORE

Manasi Chavan
Senior Staff Engineer

Patrick Cullip
Project Engineer

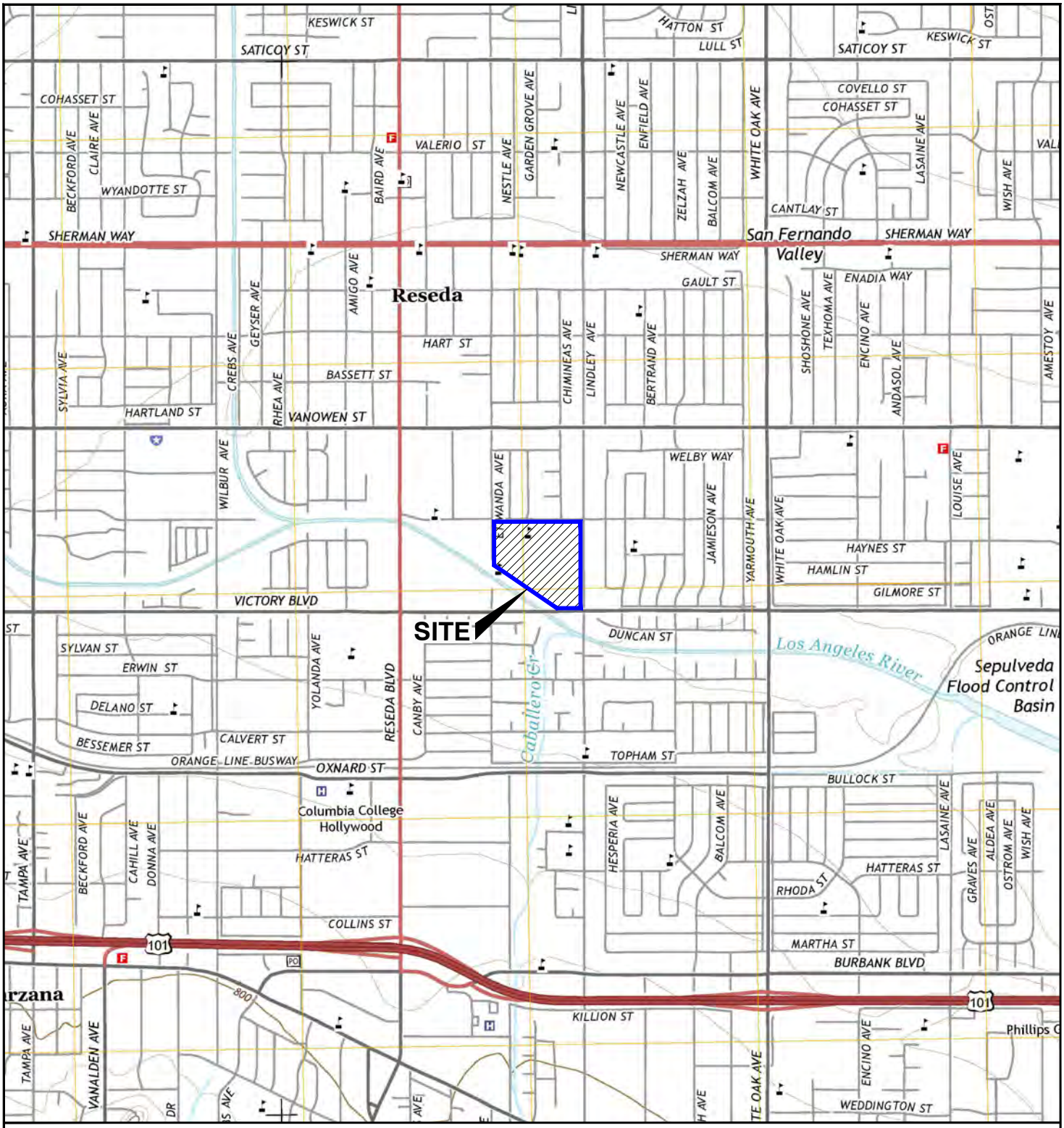
Anthony Lizzi, PG, CHG
Principal Geologist

MNC/PJC/AJL/gkj/sc/mlc

Attachments: Figures

Distribution: (1) Addressee (via e-mail)

FIGURES



LEGEND

SITE BOUNDARY

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: USGS, 2015.

N

FEET

0 2,000 4,000

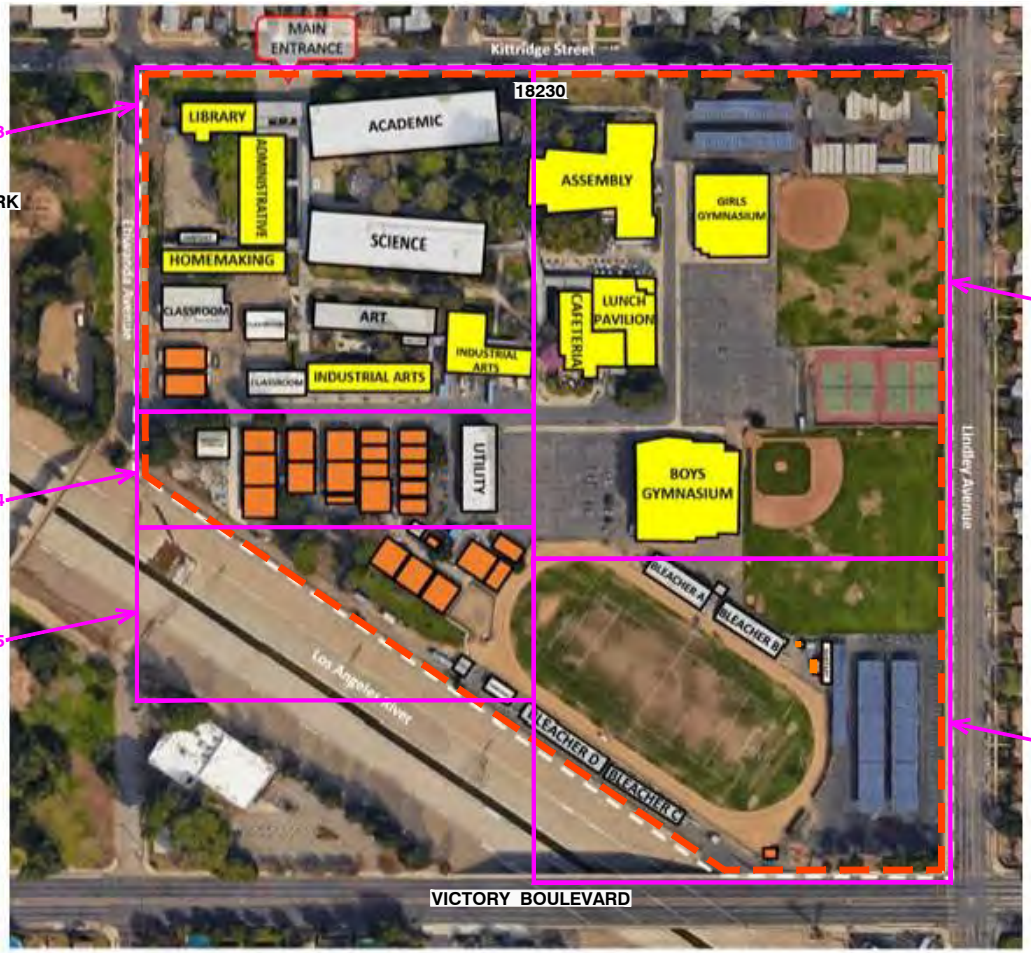
210095004_SL.dwg 07/07/2017 JP

FIGURE 1

SITE LOCATION

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



LEGEND

- SITE BOUNDARY
- BUILDING TO BE REMOVED
- PORTABLE TO BE REMOVED

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 300 600

210095004_BL.dwg 08/22/2017 JP

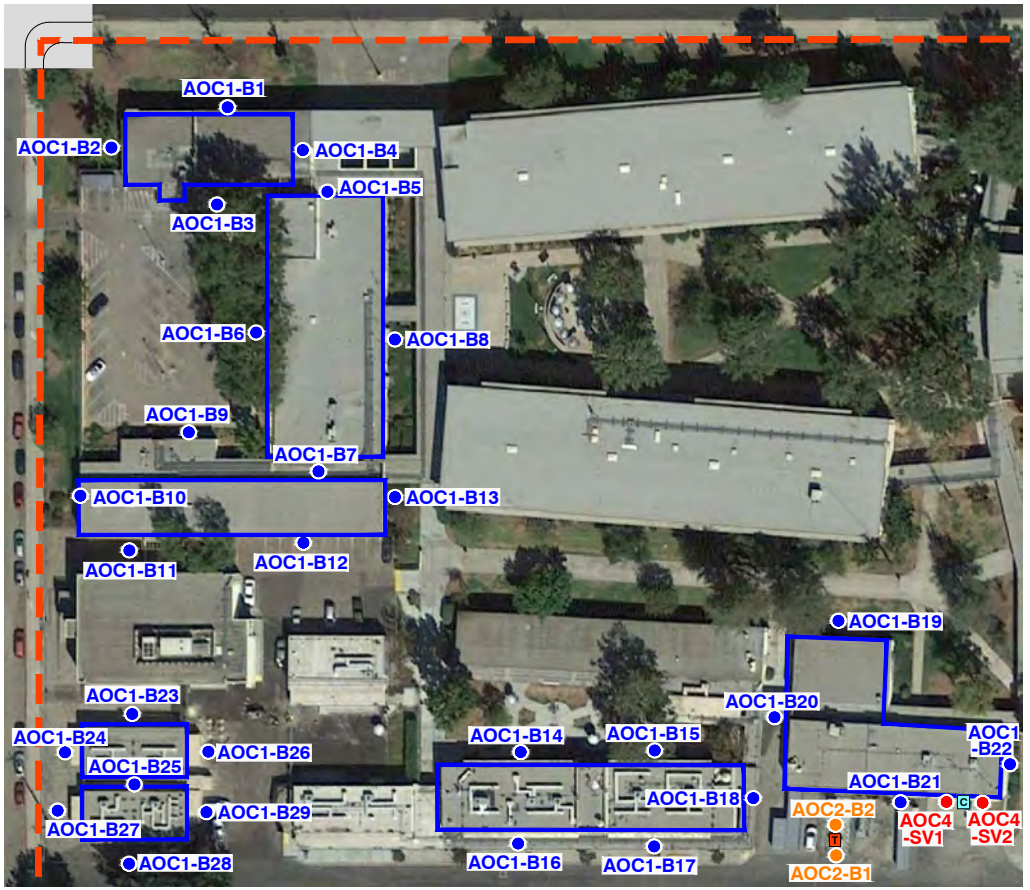
FIGURE 2

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

BUILDING LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17



LEGEND

- SITE BOUNDARY
- C CLARIFIER
- T TRANSFORMER
- BUILDING OUTLINE
- AOC1-B29 ● PROPOSED SOIL SAMPLING LOCATION (LEAD, ARSENIC, ORGANOCHLORINE PESTICIDES, POLYCHLORINATED BIPHENYLS)
- AOC2-B2 ● PROPOSED SOIL SAMPLING LOCATION (POLYCHLORINATED BIPHENYLS)
- AOC4-SV2 ● PROPOSED SOIL VAPOR SAMPLING LOCATION (VOLATILE ORGANIC COMPOUNDS)

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET
0 120 240

210095004_SSL1.dwg 08/22/2017 JP

FIGURE 3

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

LEGEND

- SITE BOUNDARY
- T TRANSFORMER
- AOC5-SV2 ● PROPOSED SOIL VAPOR SAMPLING LOCATION (VOLATILE ORGANIC COMPOUNDS)
- AOC1-B75 ● PROPOSED SOIL SAMPLING LOCATION (LEAD, ARSENIC, ORGANOCHLORINE PESTICIDES, POLYCHLORINATED BIPHENYLS)
- AOC2-B2 ● PROPOSED SOIL SAMPLING LOCATION (POLYCHLORINATED BIPHENYLS)
- BUILDING OUTLINE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET 0 60 120

210095004_SSL2.dwg 08/22/2017 JP

FIGURE 4

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

LEGEND

- SITE BOUNDARY
- AOC1-B89 ● PROPOSED SOIL SAMPLING LOCATION (LEAD, ARSENIC, ORGANOCHLORINE PESTICIDES, POLYCHLORINATED BIPHENYLS)
- AOC3-B1 ● PROPOSED SOIL SAMPLING LOCATION (DIOXINS AND FURANS)
- BUILDING OUTLINE

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 60 120

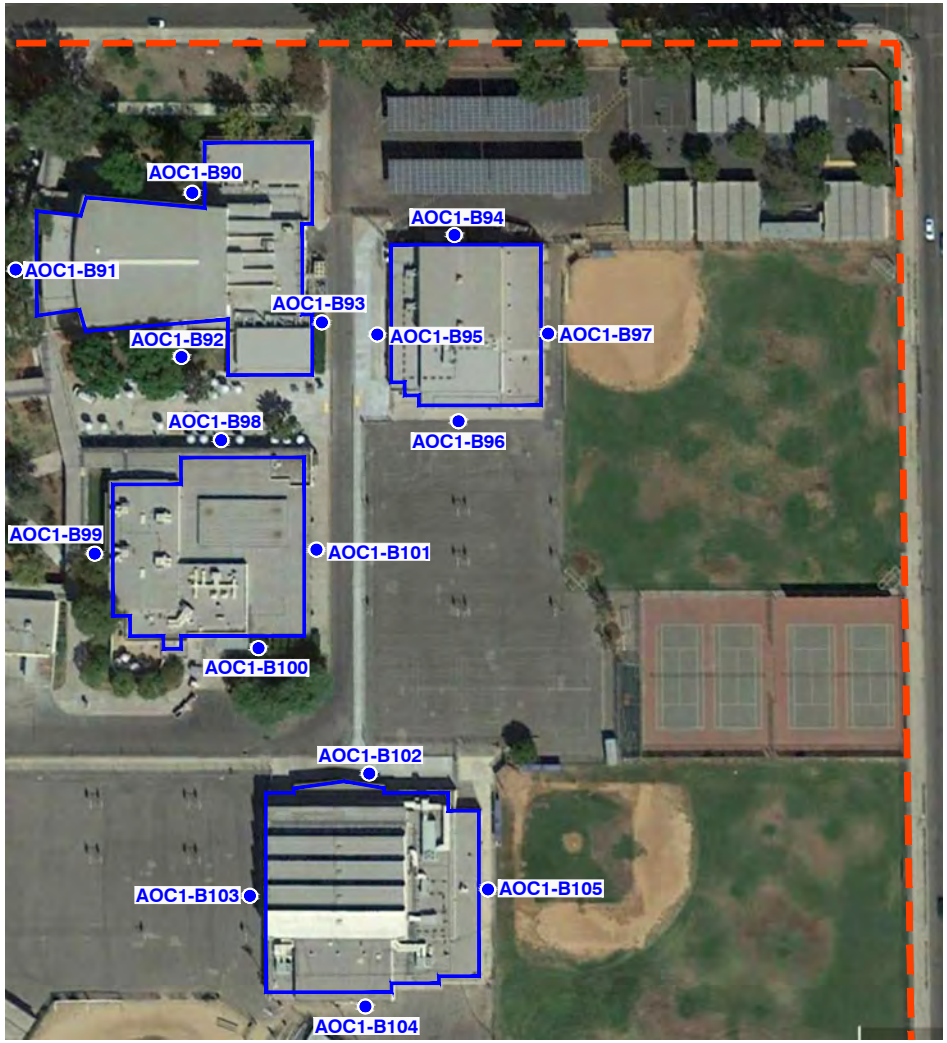
210095004_SSL3.dwg 08/22/2017 JP

FIGURE 5

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants



LEGEND

SITE BOUNDARY

BUILDING OUTLINE

AOC1-B105 PROPOSED SOIL SAMPLING LOCATION (LEAD, ARSENIC, ORGANOCHLORINE PESTICIDES, POLYCHLORINATED BIPHENYLS)

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 150 300

210095004_SSL4.dwg 08/22/2017 JP

FIGURE 6

SOIL AND SOIL VAPOR SAMPLE LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

Ninyo & Moore
Geotechnical & Environmental Sciences Consultants

LEGEND

SITE BOUNDARY

BUILDING OUTLINE

AOC1-B111 ● PROPOSED SOIL SAMPLING LOCATION (LEAD, ARSENIC, ORGANOCHLORINE PESTICIDES, POLYCHLORINATED BIPHENYLS)

NOTE: DIMENSIONS, DIRECTIONS AND LOCATIONS ARE APPROXIMATE. I REFERENCE: GOOGLE EARTH, 2017.

N

FEET

0 120 240

210095004_SSL5.dwg 08/22/2017 JP

FIGURE 7

Ninyo & Moore

Geotechnical & Environmental Sciences Consultants

SOIL SAMPLE LOCATIONS

RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA
210095004 I 8/17

APPENDIX B

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-B1

Drilling Method: Direct Push

Sheet: 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 12/22/17 Time 8:30AM; Finish Date 12/22/17 Time 9:40AM

Surface Conditions: Concrete 8"

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
							1		
							2		
							3		
							4		
	0835				X		5	ML	SILT, 2.5Y 4/4, clay 15-20%, moist, firm.
							6		
							7		
							8		
							9		
	0902				X		10	ML	Clayey SILT, 10YR 3/4, moist, firm, slightly mottled.
							11		
							12		
							13		
							14		
	0910				X		15	CL	Silty CLAY, 10YR 5/4, trace sand, medium plasticity when wet, hard, moist.
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-B2

Drilling Method: Direct Push

Sheet: 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 12/22/17 Time 7:00AM; Finish Date 12/22/17 Time 8:30AM

Surface Conditions: Concrete 8"

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
							1		
							2		
							3		
							4		
	0720				X		5	ML	SILT, 2.5Y 4/3, moist, soft.
							6		
							7		
							8		
							9		
	0735				X		10	ML	Clayey SILT, 10YR 4/3, 10% fine grained sand, moist, firm.
							11		
							12		
							13		
							14		
							15	ML	Clayey SILT, 2,5Y 4/3, high clay percentage, moist, firm, medium plasticity when wet.
	0758				X		16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV3

Drilling Method: Direct Push

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: Asphalt 4" | Drilling: Start Date 2/19/18 Time 8:20AM; Finish Date 2/19/18 Time 9:00AM

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Description
							0		
								ML	SILT, brown, silt with medium to coarse grained sand, trace clay, moist.
							1		
							2		
								SP	SAND, light brown, fine grained sand, moist.
							3		Trace silt at 3.5'.
							4		
								SM	Silty SAND, light brown, fine grained sand, moist.
							5		
							6		trace white fibers/roots at 6'.
							7		
								SP	SAND, light brown, fine grained sand.
							8	SM	Silty SAND, light brown, trace clay, moist.
							9		SILT with clay, brown, some fine grained sand, trace white caliche.
							10		SILT with no clay, brown, white caliche, moist at 10.5'.
							11		
							12	SM	some fine grained sand at 12'.
							13		few clay at 13.75'.
							14		
							15	SM	Silty SAND, light brown, fine grained sand, moist.
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number AOC4-SV4

Drilling Method: Direct Push

Sheet 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 2/19/18 Time 9:15AM | Finish Date 2/19/18 Time 10:00AM

Surface Conditions: Asphalt 4"

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
								SP	SAND, brown, fine to medium grained sand, moist.
							1		
									Fine grained sand at 1.5'.
							2		
							3	SM	Silty SAND, light brown, fine grained sand, moist.
							4		
							5		
								SP	SAND, light brown, fine grained sand, moist.
							6		
							7	SM	Silty SAND, brown, fine grained sand, moist.
							8	ML	SILT with sand, light brown, some clay, moist.
							9		trace caliche at 9'.
							10		
							11		
							12		
							13		
							14		
								SM	Silty SAND, light brown, fine grained sand, some clay.
							15		no clay at 15', tace subangular gravel to 1/2", caliche.
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV5

Drilling Method: Direct Push

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: Concrete 4" | Drilling: Start Date 2/19/18, Finish Date 2/19/18

Notes: Hand auger top 5 ft | Start Time 10:05AM, Finish Time 10:50AM

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
								SP	SAND with gravel, brown, fine to coarse grained sand, moist.
							1		
									SAND, brown, fine grained sand, moist.
							2		
							3	SP	
							4		
							5	SM	Silty SAND, brown, fine grained sand, white caliche, moist.
							6		
							7	SP	SAND, brown, fine grained sand, trace silt, moist.
							8		
							9		SILT with sand, brown, few clay, white fibers/roots, moist.
							10	ML	
							11		
							12		
							13		Sandy SILT, brown, fine to medium grained sand, trace clay, caliche, moist.
							14	ML	
							15	SM	Silty SAND, brown, fine to medium grained sand, trace sub rounded gravel to 1/2"
							16		End of Boring at 16'
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number AOC4-SV6

Drilling Method: Direct Push

Sheet 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 3/26/18 Time 11:25AM; Finish Date 3/26/18 Time 12:50AM

Surface Conditions: Asphalt

Notes: Hand auger top 5 feet

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0	SP	SAND with gravel to 1-inch, brown, moist, loose.
							1		
							2	SM	Silty SAND, loose, moist.
							3		SILT, 2.5Y 4/4, 10-15% clay, moist, loose.
							4		
	1135				X		5		SILT, 2.5Y 4/3, 10% fine grained sand, 20% clay, loose to medium dense, moist.
							6		
							7		
							8		
							9	ML	Same as above, clay % increasing.
							10		
							11		
							12		
							13		
							14		
	1150				X		15		
							16	TD	Total Depth drilled and sampled = 15.5 ft below ground surface
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV8

Drilling Method: Direct Push

Sheet: 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 3/26/18 Time 10:20AM; Finish Date 3/26/18 Time 11:20AM

Surface Conditions: Asphalt 4"

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
							1	SM/ML	Silty SAND/SILT, 10YR 4/3, loose, moist, gravel to 1/4".
							2		
							3		
							4	ML	SILT, 10YR 4/3, 10% fine grained sand, moist, loose.
	1040				X		5		
							6		Clayey SILT, 10YR 3/3, moist, medium dense.
							7		
							8		
							9		
							10		same as above, 10YR 4/3, clay % increasing.
							11		
							12		
							13		
							14		
	1100				X		15		End of Boring at 15.5'
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV9

Drilling Method: Hand Auger

Sheet: 1 of 1

Weather Conditions: Sunny/Dry

Drilling: Start Date 3/26/18 Time 9:00AM; Finish Date 3/26/18 Time 10:20AM

Surface Conditions: Concrete 4"

Notes: Hand auger top 15.5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0	SP	SAND, moist, loose, fill, gravel to 1/4".
							1		
							2		same as above, less sand, more fines.
							3		
							4	SM	Silty SAND
	9:10				X		5	ML	SILT, 10YR 4/4, 25% fine grained sand, 10% clay, loose, moist.
							6		
							7		Same as above, increasing clay %.
							8		
							9		
							10		Clayey SILT, moderately dense.
							11		
							12		
							13		
							14		
	9:45				X		15		End of Boring at 15.5'
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV10

Drilling Method: Hand Auger | Sheet: 1 of 1

Weather Conditions: Sunny/Dry | Drilling: Start Date 3/26/18 Time 8:00AM; Finish Date 3/26/18 Time 9:00AM

Surface Conditions: Concrete 7"

Notes: Hand auger to 15.5'

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0	SP	SAND, 10YR 4/4, loose sand with gravel to 1/2", rounded, moist.
							1		
							2		
							3	SM	Silty SAND, 10YR 3/6, loose, moist.
	8:15				X		4		
							5		
							6	SM	Same as above, roots.
							7		
							8	SM	Same as above, at 8.5' clay 10-15%.
							9	ML	SILT, 10YR 3/4, 25% fine grained sand, 15-20% clay, moist, moderatly dense
							10		
							11		
							12		
							13	ML	Clayey SILT, 2.5Y 4/3, 10% fine grained sand, dense, moist.
							14		Sandy SILT, 2.5Y 5/6, fine grained sand, moist.
	8:50				X		15		
							16		End of Boring at 15.5'
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV11

Drilling Method: Hand Auger

Sheet: 1 of 1

Weather Conditions: Overcast/Rainy

Drilling: Start Date 5/12/18 Time 11:00AM | Finish Date 5/12/18 Time 12:00PM

Surface Conditions: Concrete 7"

Notes: Hand auger to 15.5'

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
							1		
							2		
							3		
	11:04				X		4		
							5	ML	Sandy SILT, 2.5Y 4/4, fine to medium grained sand, moist, loose.
							6		
							7		
							8		
							9		
							10		
							11		
							12		
							13		
							14	ML	Sandy SILT, 2.5Y 5/6, fine grained sand, moist.
	11:30				X		15		End of Boring at 15'
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV12

Drilling Method: Hand Auger

Sheet: 1 of 1

Weather Conditions: Overcast/rainy

Drilling: Start Date 5/12/18 Time 7:45AM | Finish Date 5/12/18 Time 8:45AM

Surface Conditions: Asphalt

Notes: Hand auger to 15

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Description
							0		
							1		
							2		
							3		
	7:54				X		4	SM	
							5		Silty SAND, 10YR 5/4, fine to medium grained sand, moist, roots.
							6		
							7		
							8		
							9		
							10		
							11		
							12		
							13		
	8:15				X		14	SM	Silty SAND, 10YR 5/4, fine to medium grained sand, moist, roots.
							15		End of Boring at 15'
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV13

Drilling Method: Hand Auger

Sheet: 1 of 1

Weather Conditions: Overcast/rainy

Drilling: Start Date 5/12/18 Time 9:00AM | Finish Date 5/12/18 Time 10:30AM

Surface Conditions: Dirt

Notes: Hand auger to 15

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0	SM	Silty SAND, 2.5Y 4/4, fine to medium grained sand, moist, roots.
							1		
							2		
							3	SP	SAND, fine grained sand, loose, moist.
	9:10				X		4		Sandy SILT, 2.5Y 4/4, moist, fine to coarse grained sand.
							5		Same as above, 2.5Y 5/4, sweet odor.
							6		
							7		
							8		
							9	ML	
							10		
							11		SILT, 2.5Y 4/4, trace clay, moist, dense.
							12		
							13		
	10:15				X		14		
							15		End of Boring at 15'
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number AOC5-B1

Drilling Method: Direct Push

Weather Conditions: Sunny/Dry | Sheet 1 of 1

Surface Conditions: asphalt 4" | Drilling: Start Date 12/22/17 Time 11:20AM; Finish Date 12/22/17 Time 1:00PM

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Notes
							0		
							1		
							2		
							3		
							4		
							5	ML	SILT, 2.5Y 5/4, almost dry, slightly mottled with slight silica
							6		
							7		
							8		
							9		
							10	CL	CLAY, 2.5Y 3/3, medium plasticity when wet, moist, hard, slight mottling.
							11		
							12		
							13		
							14		
							15	ML	Clayey SILT, 2,5Y 4/2, moist, firm, slight mottling.
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number AOC5-B2

Drilling Method: Direct Push

Weather Conditions: Sunny/Dry | Sheet 1 of 1

Surface Conditions: asphalt 4" | Drilling: Start Date 12/22/17 Time 9:40AM; Finish Date 12/22/17 Time 11:20AM

Notes: Hand auger top 5 ft

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ Yes ☐ No

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Description
							0		
							1		
							2		
							3		
							4		
							5	ML	SILT, 2.5Y 4/3, clay 15-20%, moist, soft, slightly micaceous.
							6		
							7		
							8		
							9		
							10	ML	SILT as above, slightly increasing clay content, firm.
							11		
							12		
							13		
							14		
							15	ML	SILT, 2,5Y 4/4, clay 10-15%, 5% fine grained sand, moist, medium dense.
							16		
							17		
							18		
							19		
							20		

APPENDIX C

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07		

Generator and/or Consultant

Generator's Name and Billing Address:	Generator's Phone #:	
L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	213-241-3199	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	Consultant's Phone #:	
	Person to Contact:	
	FAX#:	Customer Account Number

Generation Site (Transport from): *(name & address)*	Site Phone #:	
LAUSD - RESEDA HIGH SCHOOL 18230 KITTRIDGE ST. RESEDA, CA 91335	Person to Contact:	
	FAX#:	

Designated Facility (Transport to): *(name & address)*	Facility Phone #:	
SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Person to Contact: JOE PROVANSAL	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address:	Transporter's Phone #:	
BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 292231	949-460-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-5210	Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☑ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☑	Gas ☐ Diesel ☐ Other NONE ☑	7 DM				
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐	Signature and date:	Month	Day	Year
Dave T Robinson As Agent For	Dave T Robinson	03	16	18

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name:	Signature and date:	Month	Day	Year
Luis Navarro		3	16	18

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name:	Signature and date:
J. PROVANSAL	

Please print or type.

GENERATOR/CONSULTANTS COPY

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
/ /			A07	48582	

Generator and/or Consultant

Generator's Name and Billing Address: L.A.U.S.D. - OEHS 333 S. BEAUDRY AVE., 21ST FLOOR LOS ANGELES, CA 90017	Generator's Phone #: 213-241-3199 Person to Contact: FAX#:	Customer Account Number
Consultant's Name and Billing Address:	Consultant's Phone #: Person to Contact: FAX#:	Customer Account Number
Generation Site (Transport from): *(name & address)* LAUSD - RESEDA HIGH SCHOOL 18230 KITTRIDGE ST. RESEDA, CA 91335	Site Phone #: Person to Contact: FAX#:	
Designated Facility (Transport to): *(name & address)* SOIL SAFE 12328 HIBISCUS AVENUE ADELANTO, CA 92301	Facility Phone #: (800) 862-8001 Person to Contact: JOE PROVANSAL FAX#: (760) 246-8004	
Transporter Name and Mailing Address: BELSHIRE 25971 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 295237	Transporter's Phone #: 949-460-5200 Person to Contact: LARRY MOOTHART FAX#: 949-460-5210	CAR000183913 450647 Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑	003 DM	Soil			
Sand ❑ Organic ❑ Clay ❑ Other ❑	0 - 10% ❑ 10 - 20% ❑ 20% - over ❑	Gas ❑ Diesel ❑ Other ❑					

List any exception to items listed above: Scale Ticket #

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☒ Consultant ❑ — Dane T Robinson For LAUSD

Signature and date: Month 06 Day 22 Year 18

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Thomas Burk

Signature and date: Month 06 Day 22 Year 18

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above:

Print or Type Name: J. PROVANSAL

Signature and date:

Please print or type.

GENERATOR/CONSULTANTS COPY

APPENDIX D

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198798-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 10:39:50 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 9
Surrogate Summary 17
Method Summary 18
Lab Chronicle 19
QC Sample Results 25
QC Association Summary 29
Definitions/Glossary 32
Certification Summary 33
Chain of Custody 34
Receipt Checklists 43

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198798-1	AOC1-B31-D0.5	Solid	12/18/17 08:40	12/19/17 13:10
440-198798-4	AOC1-B34-D0.5	Solid	12/18/17 08:25	12/19/17 13:10
440-198798-7	AOC1-B37-D0.5	Solid	12/18/17 08:10	12/19/17 13:10
440-198798-10	AOC1-B30-D0.5	Solid	12/18/17 09:40	12/19/17 13:10
440-198798-13	AOC1-B33-D0.5	Solid	12/18/17 08:55	12/19/17 13:10
440-198798-16	AOC1-B36-D0.5	Solid	12/18/17 09:10	12/19/17 13:10
440-198798-19	AOC1-B39-D0.5	Solid	12/18/17 09:25	12/19/17 13:10
440-198798-22	AOC1-B44-D0.5	Solid	12/18/17 09:55	12/19/17 13:10
440-198798-25	AOC1-B54-D0.5	Solid	12/18/17 11:25	12/19/17 13:10
440-198798-28	AOC1-B43-D0.5	Solid	12/18/17 10:40	12/19/17 13:10
440-198798-31	AOC1-B46-D0.5	Solid	12/18/17 10:55	12/19/17 13:10
440-198798-34	AOC1-B51-D0.5	Solid	12/18/17 11:40	12/19/17 13:10
440-198798-37	AOC1-B38-D0.5	Solid	12/18/17 12:10	12/19/17 13:10
440-198798-40	AOC1-B45-D0.5	Solid	12/18/17 11:10	12/19/17 13:10
440-198798-43	AOC1-B41-D0.5	Solid	12/18/17 10:10	12/19/17 13:10
440-198798-46	AOC1-B40-D0.5	Solid	12/18/17 10:25	12/19/17 13:10
440-198798-49	AOC1-B47-D0.5	Solid	12/18/17 11:55	12/19/17 13:10
440-198798-52	AOC1-B52-D0.5	Solid	12/18/17 12:50	12/19/17 13:10
440-198798-55	AOC1-B55-D0.5	Solid	12/18/17 13:05	12/19/17 13:10
440-198798-60	AOC1-B59-D0.5-DUP	Solid	12/18/17 13:25	12/19/17 13:10
440-198798-61	AOC1-B59-D-0.5	Solid	12/18/17 13:20	12/19/17 13:10
440-198798-64	AOC1-B61-D0.5	Solid	12/18/17 13:35	12/19/17 13:10
440-198798-67	AOC1-B70-D0.5	Solid	12/18/17 13:50	12/19/17 13:10
440-198798-70	AOC1-B60-D0.5-DUP	Solid	12/18/17 14:05	12/19/17 13:10
440-198798-71	AOC1-B70-D0.5-DUP	Solid	12/18/17 13:55	12/19/17 13:10
440-198798-72	AOC1-B61-D0.5-DUP	Solid	12/18/17 13:35	12/19/17 13:10
440-198798-73	AOC1-B60-D0.5	Solid	12/18/17 14:05	12/19/17 13:10
440-198798-76	AOC1-B62-D0.5	Solid	12/18/17 14:20	12/19/17 13:10
440-198798-79	AOC1-B67-D0.5	Solid	12/18/17 14:35	12/19/17 13:10
440-198798-82	AOC1-B65-D0.5	Solid	12/18/17 14:50	12/19/17 13:10
440-198798-85	AOC1-B64-D0.5	Solid	12/18/17 15:05	12/19/17 13:10
440-198798-88	AOC1-B58-D0.5	Solid	12/18/17 15:20	12/19/17 13:10
440-198798-91	E121817	Water	12/18/17 15:35	12/19/17 13:10

Job ID: 440-198798-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198798-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2017 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 2.2º C.

Receipt Exceptions
The Chain-of-Custody (COC) was incomplete as received and/or improperly completed. No analysis requested for sample E121817 (440-198798-91). Sample was put on hold. Client emailed request for analysis of this sample, but the request was missed originally. Sample was removed from hold and tests were peformed, but the 7-day extraction hold time for EPA 8081A-Pesticides and EPA 8082 PCBs was missed.

GC Semi VOA
Method(s) 8081A / 8082: The following sample was prepared outside of 7-day preparation holding time due to missing requests on original COC, and laboratory oversight for revised COC: E121817 (440-198798-91).

Method(s) 8082: The matrix spike duplicate (MSD) recoveries for the following sample associated with preparation batch 440-447926 and analytical batch 440-448043 was outside control limits for 1260 due to matrix: (440-198797-G-1-C MSD). The associated laboratory control sample (LCS) recovery met acceptance criteria.

Method(s) 8081A / 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448689. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C / 8081A / 8082: Slightly elevated reporting limits are provided for the following sample due to insufficient sample volume (less than 250ml) provided for preparation: E121817 (440-198798-91).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B31-D0.5 — Lab Sample ID: 440-198798-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	24		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-D0.5 — Lab Sample ID: 440-198798-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	42	J	49	17	ug/Kg	1		8082	Total/NA
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	100		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B37-D0.5 — Lab Sample ID: 440-198798-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B30-D0.5 — Lab Sample ID: 440-198798-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.6		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B33-D0.5 — Lab Sample ID: 440-198798-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	24	J	50	17	ug/Kg	1		8082	Total/NA
Arsenic	9.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	26		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B36-D0.5 — Lab Sample ID: 440-198798-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	26		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B39-D0.5 — Lab Sample ID: 440-198798-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	19		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B44-D0.5 — Lab Sample ID: 440-198798-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	28		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B54-D0.5 — Lab Sample ID: 440-198798-25

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B54-D0.5 (Continued) — Lab Sample ID: 440-198798-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	17	J	49	17	ug/Kg	1		8082	Total/NA
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	37		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B43-D0.5 — Lab Sample ID: 440-198798-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	4.0		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B46-D0.5 — Lab Sample ID: 440-198798-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	19		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B51-D0.5 — Lab Sample ID: 440-198798-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B38-D0.5 — Lab Sample ID: 440-198798-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	33		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B45-D0.5 — Lab Sample ID: 440-198798-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	46		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B41-D0.5 — Lab Sample ID: 440-198798-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	54		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B40-D0.5 — Lab Sample ID: 440-198798-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	14		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B47-D0.5 — Lab Sample ID: 440-198798-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B47-D0.5 (Continued) — Lab Sample ID: 440-198798-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B52-D0.5 — Lab Sample ID: 440-198798-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B55-D0.5 — Lab Sample ID: 440-198798-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	32		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B59-D0.5-DUP — Lab Sample ID: 440-198798-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B59-D-0.5 — Lab Sample ID: 440-198798-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	23		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B61-D0.5 — Lab Sample ID: 440-198798-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	18		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B70-D0.5 — Lab Sample ID: 440-198798-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	30		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B60-D0.5-DUP — Lab Sample ID: 440-198798-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B70-D0.5-DUP — Lab Sample ID: 440-198798-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	23		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B61-D0.5-DUP — Lab Sample ID: 440-198798-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B60-D0.5 — Lab Sample ID: 440-198798-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	4.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B62-D0.5 — Lab Sample ID: 440-198798-76

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	15		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B67-D0.5 — Lab Sample ID: 440-198798-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	29		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B65-D0.5 — Lab Sample ID: 440-198798-82

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	34		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-D0.5 — Lab Sample ID: 440-198798-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	35		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-D0.5 — Lab Sample ID: 440-198798-88

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	27		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: E121817 — Lab Sample ID: 440-198798-91

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B31-D0.5

Lab Sample ID: 440-198798-1
Date Collected: 12/18/17 08:40
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 13:38	5
Lead	**24**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 13:38	5

Client Sample ID: AOC1-B34-D0.5

Lab Sample ID: 440-198798-4
Date Collected: 12/18/17 08:25
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1
Aroclor 1260	**42**	**J**	49	17	ug/Kg		12/20/17 17:13	12/21/17 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*12/20/17 17:13*	*12/21/17 13:41*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 13:54	5
Lead	**100**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 13:54	5

Client Sample ID: AOC1-B37-D0.5

Lab Sample ID: 440-198798-7
Date Collected: 12/18/17 08:10
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.6**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 13:56	5
Lead	**13**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 13:56	5

Client Sample ID: AOC1-B30-D0.5

Lab Sample ID: 440-198798-10
Date Collected: 12/18/17 09:40
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.4**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 13:58	5
Lead	**6.6**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 13:58	5

Client Sample ID: AOC1-B33-D0.5

Lab Sample ID: 440-198798-13
Date Collected: 12/18/17 08:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1

Client Sample ID: AOC1-B33-D0.5

Lab Sample ID: 440-198798-13
Date Collected: 12/18/17 08:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1
Aroclor 1260	**24**	**J**	50	17	ug/Kg		12/20/17 17:13	12/21/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*12/20/17 17:13*	*12/21/17 13:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.6**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:00	5
Lead	**26**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:00	5

Client Sample ID: AOC1-B36-D0.5

Lab Sample ID: 440-198798-16
Date Collected: 12/18/17 09:10
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**11**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:02	5
Lead	**26**		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:02	5

Client Sample ID: AOC1-B39-D0.5

Lab Sample ID: 440-198798-19
Date Collected: 12/18/17 09:25
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**8.4**		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:04	5
Lead	**19**		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:04	5

Client Sample ID: AOC1-B44-D0.5

Lab Sample ID: 440-198798-22
Date Collected: 12/18/17 09:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*	*12/20/17 17:13*	*12/21/17 14:08*	*1*

Client Sample ID: AOC1-B44-D0.5

Lab Sample ID: 440-198798-22
Date Collected: 12/18/17 09:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:06	5
Lead	28		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:06	5

Client Sample ID: AOC1-B54-D0.5

Lab Sample ID: 440-198798-25
Date Collected: 12/18/17 11:25
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1
Aroclor 1260	17	J	49	17	ug/Kg		12/20/17 17:13	12/21/17 14:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*12/20/17 17:13*	*12/21/17 14:21*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:17	5
Lead	37		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:17	5

Client Sample ID: AOC1-B43-D0.5

Lab Sample ID: 440-198798-28
Date Collected: 12/18/17 10:40
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:20	5
Lead	4.0		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:20	5

Client Sample ID: AOC1-B46-D0.5

Lab Sample ID: 440-198798-31
Date Collected: 12/18/17 10:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:22	5
Lead	19		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:22	5

Client Sample ID: AOC1-B51-D0.5

Lab Sample ID: 440-198798-34
Date Collected: 12/18/17 11:40
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.6		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:24	5
Lead	13		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:24	5

Client Sample ID: AOC1-B38-D0.5

Lab Sample ID: 440-198798-37
Date Collected: 12/18/17 12:10
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.6		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:26	5
Lead	33		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:26	5

Client Sample ID: AOC1-B45-D0.5

Lab Sample ID: 440-198798-40
Date Collected: 12/18/17 11:10
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:28	5
Lead	46		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:28	5

Client Sample ID: AOC1-B41-D0.5

Lab Sample ID: 440-198798-43
Date Collected: 12/18/17 10:10
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:30	5
Lead	54		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:30	5

Client Sample ID: AOC1-B40-D0.5

Lab Sample ID: 440-198798-46
Date Collected: 12/18/17 10:25
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:32	5
Lead	14		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:32	5

Client Sample ID: AOC1-B47-D0.5

Lab Sample ID: 440-198798-49
Date Collected: 12/18/17 11:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:34	5
Lead	6.0		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:34	5

Client Sample ID: AOC1-B52-D0.5

Lab Sample ID: 440-198798-52
Date Collected: 12/18/17 12:50
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:36	5
Lead	8.6		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:36	5

Client Sample ID: AOC1-B55-D0.5

Lab Sample ID: 440-198798-55
Date Collected: 12/18/17 13:05
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:49	5
Lead	32		2.0	1.0	mg/Kg		12/21/17 09:37	12/22/17 14:49	5

Client Sample ID: AOC1-B59-D0.5-DUP

Lab Sample ID: 440-198798-60
Date Collected: 12/18/17 13:25
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.7		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 14:51	5
Lead	13		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 14:51	5

Client Sample ID: AOC1-B59-D-0.5

Lab Sample ID: 440-198798-61
Date Collected: 12/18/17 13:20
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:27	5
Lead	23		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:27	5

Client Sample ID: AOC1-B61-D0.5

Lab Sample ID: 440-198798-64
Date Collected: 12/18/17 13:35
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:38	5
Lead	18		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:38	5

Client Sample ID: AOC1-B70-D0.5

Lab Sample ID: 440-198798-67
Date Collected: 12/18/17 13:50
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:40	5
Lead	30		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:40	5

Client Sample ID: AOC1-B60-D0.5-DUP

Lab Sample ID: 440-198798-70
Date Collected: 12/18/17 14:05
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:42	5
Lead	11		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:42	5

Client Sample ID: AOC1-B70-D0.5-DUP

Lab Sample ID: 440-198798-71
Date Collected: 12/18/17 13:55
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:51	5
Lead	23		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:51	5

Client Sample ID: AOC1-B61-D0.5-DUP

Lab Sample ID: 440-198798-72
Date Collected: 12/18/17 13:35
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:53	5
Lead	9.7		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:53	5

Client Sample ID: AOC1-B60-D0.5

Lab Sample ID: 440-198798-73
Date Collected: 12/18/17 14:05
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.6		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:55	5
Lead	4.0		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:55	5

Client Sample ID: AOC1-B62-D0.5

Lab Sample ID: 440-198798-76
Date Collected: 12/18/17 14:20
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:57	5
Lead	15		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:57	5

Client Sample ID: AOC1-B67-D0.5

Lab Sample ID: 440-198798-79
Date Collected: 12/18/17 14:35
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:59	5
Lead	29		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:59	5

Client Sample ID: AOC1-B65-D0.5

Lab Sample ID: 440-198798-82
Date Collected: 12/18/17 14:50
Matrix: Solid
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:01	5
Lead	34		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:01	5

Client Sample ID: AOC1-B64-D0.5

Lab Sample ID: 440-198798-85
Matrix: Solid
Date Collected: 12/18/17 15:05
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:04	5
Lead	35		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:04	5

Client Sample ID: AOC1-B58-D0.5

Lab Sample ID: 440-198798-88
Matrix: Solid
Date Collected: 12/18/17 15:20
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:06	5
Lead	27		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:06	5

Client Sample ID: E121817

Lab Sample ID: 440-198798-91
Matrix: Water
Date Collected: 12/18/17 15:35
Date Received: 12/19/17 13:10

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
4,4'-DDE	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
4,4'-DDT	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Aldrin	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
alpha-BHC	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
beta-BHC	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Chlordane (technical)	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 14:01	1
delta-BHC	ND	H	0.21	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Dieldrin	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endosulfan I	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endosulfan II	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endosulfan sulfate	ND	H	0.21	0.10	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endrin	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endrin aldehyde	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Endrin ketone	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
gamma-BHC (Lindane)	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Heptachlor	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Heptachlor epoxide	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Methoxychlor	ND	H	0.10	0.052	ug/L		12/27/17 15:27	12/28/17 14:01	1
Toxaphene	ND	H	5.2	2.6	ug/L		12/27/17 15:27	12/28/17 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*66*		*19 - 115*	*12/27/17 15:27*	*12/28/17 14:01*	*1*
DCB Decachlorobiphenyl (Surr)	*131*		*10 - 149*	*12/27/17 15:27*	*12/28/17 14:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1
Aroclor 1221	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1
Aroclor 1232	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1
Aroclor 1242	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1
Aroclor 1248	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1

Client Sample ID: E121817
Date Collected: 12/18/17 15:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-91
Matrix: Water

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1254	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1
Aroclor 1260	ND	H	1.0	0.52	ug/L		12/27/17 15:27	12/28/17 08:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*112*		*26 - 115*	*12/27/17 15:27*	*12/28/17 08:50*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/28/17 08:17	12/28/17 17:20	1
Lead	ND		0.0050	0.0038	mg/L		12/28/17 08:17	12/28/17 17:20	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCB2								
Lab Sample ID	Client Sample ID	(19-115)	(10-149)								
440-198798-91	E121817	66	131								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2									
Lab Sample ID	Client Sample ID	(45-120)									
440-198797-G-1-B MS	Matrix Spike	48									
440-198797-G-1-C MSD	Matrix Spike Duplicate	48									
440-198798-4	AOC1-B34-D0.5	48									
440-198798-13	AOC1-B33-D0.5	69									
440-198798-22	AOC1-B44-D0.5	54									
440-198798-25	AOC1-B54-D0.5	48									
LCS 440-447926/2-A	Lab Control Sample	72									
MB 440-447926/1-A	Method Blank	80									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2									
Lab Sample ID	Client Sample ID	(26-115)									
440-198798-91	E121817	112									
LCS 440-448689/4-A	Lab Control Sample	73									
LCSD 440-448689/5-A	Lab Control Sample Dup	81									
MB 440-448689/1-A	Method Blank	73									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B31-D0.5
Date Collected: 12/18/17 08:40
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-1
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:38	K1E	TAL IRV

Client Sample ID: AOC1-B34-D0.5
Date Collected: 12/18/17 08:25
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.28 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 13:41	JM	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:54	K1E	TAL IRV

Client Sample ID: AOC1-B37-D0.5
Date Collected: 12/18/17 08:10
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-7
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:56	K1E	TAL IRV

Client Sample ID: AOC1-B30-D0.5
Date Collected: 12/18/17 09:40
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-10
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:58	K1E	TAL IRV

Client Sample ID: AOC1-B33-D0.5
Date Collected: 12/18/17 08:55
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-13
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 13:54	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:00	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B36-D0.5

Lab Sample ID: 440-198798-16
Date Collected: 12/18/17 09:10
Matrix: Solid
Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:02	K1E	TAL IRV

Client Sample ID: AOC1-B39-D0.5

Lab Sample ID: 440-198798-19
Date Collected: 12/18/17 09:25
Matrix: Solid
Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:04	K1E	TAL IRV

Client Sample ID: AOC1-B44-D0.5

Lab Sample ID: 440-198798-22
Date Collected: 12/18/17 09:55
Matrix: Solid
Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 14:08	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:06	K1E	TAL IRV

Client Sample ID: AOC1-B54-D0.5

Lab Sample ID: 440-198798-25
Date Collected: 12/18/17 11:25
Matrix: Solid
Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.25 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 14:21	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:17	K1E	TAL IRV

Client Sample ID: AOC1-B43-D0.5

Lab Sample ID: 440-198798-28
Date Collected: 12/18/17 10:40
Matrix: Solid
Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:20	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B46-D0.5
Date Collected: 12/18/17 10:55
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-31
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:22	K1E	TAL IRV

Client Sample ID: AOC1-B51-D0.5
Date Collected: 12/18/17 11:40
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-34
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:24	K1E	TAL IRV

Client Sample ID: AOC1-B38-D0.5
Date Collected: 12/18/17 12:10
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-37
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:26	K1E	TAL IRV

Client Sample ID: AOC1-B45-D0.5
Date Collected: 12/18/17 11:10
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-40
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:28	K1E	TAL IRV

Client Sample ID: AOC1-B41-D0.5
Date Collected: 12/18/17 10:10
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-43
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:30	K1E	TAL IRV

Client Sample ID: AOC1-B40-D0.5
Date Collected: 12/18/17 10:25
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-46
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:32	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B47-D0.5
Date Collected: 12/18/17 11:55
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-49
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:34	K1E	TAL IRV

Client Sample ID: AOC1-B52-D0.5
Date Collected: 12/18/17 12:50
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-52
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:36	K1E	TAL IRV

Client Sample ID: AOC1-B55-D0.5
Date Collected: 12/18/17 13:05
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:49	K1E	TAL IRV

Client Sample ID: AOC1-B59-D0.5-DUP
Date Collected: 12/18/17 13:25
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-60
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448035	12/21/17 09:37	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 14:51	K1E	TAL IRV

Client Sample ID: AOC1-B59-D-0.5
Date Collected: 12/18/17 13:20
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:27	K1E	TAL IRV

Client Sample ID: AOC1-B61-D0.5
Date Collected: 12/18/17 13:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-64
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:38	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B70-D0.5
Date Collected: 12/18/17 13:50
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-67
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:40	K1E	TAL IRV

Client Sample ID: AOC1-B60-D0.5-DUP
Date Collected: 12/18/17 14:05
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-70
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:42	K1E	TAL IRV

Client Sample ID: AOC1-B70-D0.5-DUP
Date Collected: 12/18/17 13:55
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-71
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:51	K1E	TAL IRV

Client Sample ID: AOC1-B61-D0.5-DUP
Date Collected: 12/18/17 13:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-72
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:53	K1E	TAL IRV

Client Sample ID: AOC1-B60-D0.5
Date Collected: 12/18/17 14:05
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-73
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:55	K1E	TAL IRV

Client Sample ID: AOC1-B62-D0.5
Date Collected: 12/18/17 14:20
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-76
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:57	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Client Sample ID: AOC1-B67-D0.5
Date Collected: 12/18/17 14:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-79
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 12:59	K1E	TAL IRV

Client Sample ID: AOC1-B65-D0.5
Date Collected: 12/18/17 14:50
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-82
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:01	K1E	TAL IRV

Client Sample ID: AOC1-B64-D0.5
Date Collected: 12/18/17 15:05
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-85
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:04	K1E	TAL IRV

Client Sample ID: AOC1-B58-D0.5
Date Collected: 12/18/17 15:20
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-88
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:06	K1E	TAL IRV

Client Sample ID: E121817
Date Collected: 12/18/17 15:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-91
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			240 mL	2 mL	448689	12/27/17 15:27	L2A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 14:01	D1D	TAL IRV
Total/NA	Prep	3510C			240 mL	2 mL	448689	12/27/17 15:27	L2A	TAL IRV
Total/NA	Analysis	8082		1			448718	12/28/17 08:50	JM	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	448965	12/28/17 08:17	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			449164	12/28/17 17:20	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-447926/1-A
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*12/20/17 17:13*	*12/21/17 10:47*	*1*

Lab Sample ID: LCS 440-447926/2-A
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	222		ug/Kg		83	65 - 115		
Aroclor 1260			267	216		ug/Kg		81	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*

Lab Sample ID: 440-198797-G-1-B MS
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 447926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	F1	259	140		ug/Kg		54	50 - 120		
Aroclor 1260	ND	F1	259	132		ug/Kg		51	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Lab Sample ID: 440-198797-G-1-C MSD
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 447926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	266	154		ug/Kg		58	50 - 120	9	30
Aroclor 1260	ND	F1	266	132	F1	ug/Kg		49	50 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-448689/1-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*	*12/27/17 06:21*	*12/27/17 13:56*	*1*

Lab Sample ID: LCS 440-448689/4-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.66		ug/L		91	59 - 115		
Aroclor 1260			4.00	3.55		ug/L		89	48 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*

Lab Sample ID: LCSD 440-448689/5-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.70		ug/L		92	59 - 115	1	30
Aroclor 1260			4.00	3.74		ug/L		94	48 - 115	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*26 - 115*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448035/1-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448035

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/21/17 09:37	12/22/17 13:34	5
Lead	ND		2.0	0.99	mg/Kg		12/21/17 09:37	12/22/17 13:34	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-448035/2-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448035

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	46.4		mg/Kg		93	80 - 120
Lead	49.8	46.7		mg/Kg		94	80 - 120

Lab Sample ID: 440-198798-1 MS
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: AOC1-B31-D0.5
Prep Type: Total/NA
Prep Batch: 448035

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.6		49.3	47.1		mg/Kg		84	75 - 125
Lead	24		49.3	67.2		mg/Kg		87	75 - 125

Lab Sample ID: 440-198798-1 MSD
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: AOC1-B31-D0.5
Prep Type: Total/NA
Prep Batch: 448035

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.6		49.8	50.8		mg/Kg		91	75 - 125	8	20
Lead	24		49.8	68.2		mg/Kg		88	75 - 125	1	20

Lab Sample ID: MB 440-448036/1-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:23	5
Lead	ND		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:23	5

Lab Sample ID: LCS 440-448036/2-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	47.0		mg/Kg		94	80 - 120
Lead	49.8	47.5		mg/Kg		95	80 - 120

Lab Sample ID: 440-198798-61 MS
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: AOC1-B59-D-0.5
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.5		50.0	53.8		mg/Kg		93	75 - 125
Lead	23		50.0	66.2		mg/Kg		86	75 - 125

Lab Sample ID: 440-198798-61 MSD
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: AOC1-B59-D-0.5
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.5		50.0	54.0		mg/Kg		93	75 - 125	0	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198798-61 MSD
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: AOC1-B59-D-0.5
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	23		50.0	67.3		mg/Kg		88	75 - 125	2	20

Lab Sample ID: MB 440-448965/1-A
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/28/17 08:17	12/28/17 17:16	1
Lead	ND		0.0050	0.0038	mg/L		12/28/17 08:17	12/28/17 17:16	1

Lab Sample ID: LCS 440-448965/2-A
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.07		mg/L		107	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 440-198798-91 MS
Matrix: Water
Analysis Batch: 449164

Client Sample ID: E121817
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.03		mg/L		103	75 - 125
Lead	ND		1.00	1.01		mg/L		101	75 - 125

Lab Sample ID: 440-198798-91 MSD
Matrix: Water
Analysis Batch: 449164

Client Sample ID: E121817
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	0.984		mg/L		98	75 - 125	4	20
Lead	ND		1.00	0.965		mg/L		96	75 - 125	5	20

GC Semi VOA

Prep Batch: 447926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	Total/NA	Solid	3546	
440-198798-13	AOC1-B33-D0.5	Total/NA	Solid	3546	
440-198798-22	AOC1-B44-D0.5	Total/NA	Solid	3546	
440-198798-25	AOC1-B54-D0.5	Total/NA	Solid	3546	
MB 440-447926/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-447926/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-198797-G-1-B MS	Matrix Spike	Total/NA	Solid	3546	
440-198797-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 448043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	Total/NA	Solid	8082	447926
440-198798-13	AOC1-B33-D0.5	Total/NA	Solid	8082	447926
440-198798-22	AOC1-B44-D0.5	Total/NA	Solid	8082	447926
440-198798-25	AOC1-B54-D0.5	Total/NA	Solid	8082	447926
MB 440-447926/1-A	Method Blank	Total/NA	Solid	8082	447926
LCS 440-447926/2-A	Lab Control Sample	Total/NA	Solid	8082	447926
440-198797-G-1-B MS	Matrix Spike	Total/NA	Solid	8082	447926
440-198797-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	447926

Prep Batch: 448689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-91	E121817	Total/NA	Water	3510C	
MB 440-448689/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 448718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-91	E121817	Total/NA	Water	8082	448689
MB 440-448689/1-A	Method Blank	Total/NA	Water	8082	448689
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	8082	448689
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	8082	448689

Analysis Batch: 449006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-91	E121817	Total/NA	Water	8081A	448689

Metals

Prep Batch: 448035

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-1	AOC1-B31-D0.5	Total/NA	Solid	3050B	
440-198798-4	AOC1-B34-D0.5	Total/NA	Solid	3050B	
440-198798-7	AOC1-B37-D0.5	Total/NA	Solid	3050B	
440-198798-10	AOC1-B30-D0.5	Total/NA	Solid	3050B	
440-198798-13	AOC1-B33-D0.5	Total/NA	Solid	3050B	
440-198798-16	AOC1-B36-D0.5	Total/NA	Solid	3050B	
440-198798-19	AOC1-B39-D0.5	Total/NA	Solid	3050B	
440-198798-22	AOC1-B44-D0.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 448035 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-25	AOC1-B54-D0.5	Total/NA	Solid	3050B	
440-198798-28	AOC1-B43-D0.5	Total/NA	Solid	3050B	
440-198798-31	AOC1-B46-D0.5	Total/NA	Solid	3050B	
440-198798-34	AOC1-B51-D0.5	Total/NA	Solid	3050B	
440-198798-37	AOC1-B38-D0.5	Total/NA	Solid	3050B	
440-198798-40	AOC1-B45-D0.5	Total/NA	Solid	3050B	
440-198798-43	AOC1-B41-D0.5	Total/NA	Solid	3050B	
440-198798-46	AOC1-B40-D0.5	Total/NA	Solid	3050B	
440-198798-49	AOC1-B47-D0.5	Total/NA	Solid	3050B	
440-198798-52	AOC1-B52-D0.5	Total/NA	Solid	3050B	
440-198798-55	AOC1-B55-D0.5	Total/NA	Solid	3050B	
440-198798-60	AOC1-B59-D0.5-DUP	Total/NA	Solid	3050B	
MB 440-448035/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448035/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-1 MS	AOC1-B31-D0.5	Total/NA	Solid	3050B	
440-198798-1 MSD	AOC1-B31-D0.5	Total/NA	Solid	3050B	

Prep Batch: 448036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-61	AOC1-B59-D-0.5	Total/NA	Solid	3050B	
440-198798-64	AOC1-B61-D0.5	Total/NA	Solid	3050B	
440-198798-67	AOC1-B70-D0.5	Total/NA	Solid	3050B	
440-198798-70	AOC1-B60-D0.5-DUP	Total/NA	Solid	3050B	
440-198798-71	AOC1-B70-D0.5-DUP	Total/NA	Solid	3050B	
440-198798-72	AOC1-B61-D0.5-DUP	Total/NA	Solid	3050B	
440-198798-73	AOC1-B60-D0.5	Total/NA	Solid	3050B	
440-198798-76	AOC1-B62-D0.5	Total/NA	Solid	3050B	
440-198798-79	AOC1-B67-D0.5	Total/NA	Solid	3050B	
440-198798-82	AOC1-B65-D0.5	Total/NA	Solid	3050B	
440-198798-85	AOC1-B64-D0.5	Total/NA	Solid	3050B	
440-198798-88	AOC1-B58-D0.5	Total/NA	Solid	3050B	
MB 440-448036/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448036/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-61 MS	AOC1-B59-D-0.5	Total/NA	Solid	3050B	
440-198798-61 MSD	AOC1-B59-D-0.5	Total/NA	Solid	3050B	

Analysis Batch: 448381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-1	AOC1-B31-D0.5	Total/NA	Solid	6010B	448035
440-198798-4	AOC1-B34-D0.5	Total/NA	Solid	6010B	448035
440-198798-7	AOC1-B37-D0.5	Total/NA	Solid	6010B	448035
440-198798-10	AOC1-B30-D0.5	Total/NA	Solid	6010B	448035
440-198798-13	AOC1-B33-D0.5	Total/NA	Solid	6010B	448035
440-198798-16	AOC1-B36-D0.5	Total/NA	Solid	6010B	448035
440-198798-19	AOC1-B39-D0.5	Total/NA	Solid	6010B	448035
440-198798-22	AOC1-B44-D0.5	Total/NA	Solid	6010B	448035
440-198798-25	AOC1-B54-D0.5	Total/NA	Solid	6010B	448035
440-198798-28	AOC1-B43-D0.5	Total/NA	Solid	6010B	448035
440-198798-31	AOC1-B46-D0.5	Total/NA	Solid	6010B	448035
440-198798-34	AOC1-B51-D0.5	Total/NA	Solid	6010B	448035
440-198798-37	AOC1-B38-D0.5	Total/NA	Solid	6010B	448035

Metals (Continued)

Analysis Batch: 448381 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-40	AOC1-B45-D0.5	Total/NA	Solid	6010B	448035
440-198798-43	AOC1-B41-D0.5	Total/NA	Solid	6010B	448035
440-198798-46	AOC1-B40-D0.5	Total/NA	Solid	6010B	448035
440-198798-49	AOC1-B47-D0.5	Total/NA	Solid	6010B	448035
440-198798-52	AOC1-B52-D0.5	Total/NA	Solid	6010B	448035
440-198798-55	AOC1-B55-D0.5	Total/NA	Solid	6010B	448035
440-198798-60	AOC1-B59-D0.5-DUP	Total/NA	Solid	6010B	448035
440-198798-61	AOC1-B59-D-0.5	Total/NA	Solid	6010B	448036
440-198798-64	AOC1-B61-D0.5	Total/NA	Solid	6010B	448036
440-198798-67	AOC1-B70-D0.5	Total/NA	Solid	6010B	448036
440-198798-70	AOC1-B60-D0.5-DUP	Total/NA	Solid	6010B	448036
440-198798-71	AOC1-B70-D0.5-DUP	Total/NA	Solid	6010B	448036
440-198798-72	AOC1-B61-D0.5-DUP	Total/NA	Solid	6010B	448036
440-198798-73	AOC1-B60-D0.5	Total/NA	Solid	6010B	448036
440-198798-76	AOC1-B62-D0.5	Total/NA	Solid	6010B	448036
440-198798-79	AOC1-B67-D0.5	Total/NA	Solid	6010B	448036
440-198798-82	AOC1-B65-D0.5	Total/NA	Solid	6010B	448036
440-198798-85	AOC1-B64-D0.5	Total/NA	Solid	6010B	448036
440-198798-88	AOC1-B58-D0.5	Total/NA	Solid	6010B	448036
MB 440-448035/1-A ^5	Method Blank	Total/NA	Solid	6010B	448035
MB 440-448036/1-A ^5	Method Blank	Total/NA	Solid	6010B	448036
LCS 440-448035/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448035
LCS 440-448036/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448036
440-198798-1 MS	AOC1-B31-D0.5	Total/NA	Solid	6010B	448035
440-198798-1 MSD	AOC1-B31-D0.5	Total/NA	Solid	6010B	448035
440-198798-61 MS	AOC1-B59-D-0.5	Total/NA	Solid	6010B	448036
440-198798-61 MSD	AOC1-B59-D-0.5	Total/NA	Solid	6010B	448036

Prep Batch: 448965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-91	E121817	Total Recoverable	Water	3005A	
MB 440-448965/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-448965/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-198798-91 MS	E121817	Total Recoverable	Water	3005A	
440-198798-91 MSD	E121817	Total Recoverable	Water	3005A	

Analysis Batch: 449164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-91	E121817	Total Recoverable	Water	6010B	448965
MB 440-448965/1-A	Method Blank	Total Recoverable	Water	6010B	448965
LCS 440-448965/2-A	Lab Control Sample	Total Recoverable	Water	6010B	448965
440-198798-91 MS	E121817	Total Recoverable	Water	6010B	448965
440-198798-91 MSD	E121817	Total Recoverable	Water	6010B	448965

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181161

TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager:	Site Contact:	Date:	COC No:
Company Name:	Tel/Fax:	Lab Contact:	Carrier:	of COCs
Address:	Analysis Turnaround Time			Sampler:
City/State/Zip:	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone:	TAT if different from Below			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name:	☐ 1 week			
Site:	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Metals	Lead	PCBs	Pesticides	OCP	Sample Specific Notes:
AOC1-B64-D0.5	12/18/17	1515	G	S	1			X	X				
AOC1-B64 D1.5	12/18/17	1510	G	S	1						X	X	Hold
AOC1-B64 D2.5	12/18/17	1515	G	S	1						X	X	Hold
AOC1-B58-D0.5	12/18/17	1520	G	S	1			X	X				
AOC1-B58-D1.5	12/18/17	1525	G	S	1						X	X	Hold
AOC1 B58-D2.5	12/18/17	1530	G	S	1						X	X	Hold
C 121817	12/18/17	1535	G	S	3			X	X	X		X	
AOC1-(B40-B41-B43-B44-B45)	12/18/17		G	S								X	1oz to composite sample AOC1- 0.5' Sample
AOC1-(B30-B31-B33-B34)	"		G	S								X	1oz to composite sample AOC1- 0.5' Sample
AOC1-(B36-B37-B38-B39)	"		G	S								X	1oz to composite sample AOC1- 0.5' Sample
AOC1-(B52-B54-B55-B60)	↓		G	S								X	1oz to composite sample AOC1- 0.5' Sample

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181156

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulsen	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCB	Suspended Solids	Fluoride	Sample Specific Notes:
AOC1-B31-D0.5	12/18/17	0840	G	Soil	1			X	X				
AOC1-B31-D1.5	12/18/17	0845	G	Soil	1						X	X	Hold
AOC1-B31-D2.5	12/18/17	0850	G	Soil	1						X	X	Hold
AOC1-B34-D0.5	12/18/17	0825	G	Soil	1			X	X	X			
AOC1-B34-D1.5	12/18/17	0830	G	Soil	1						X	X	Hold
AOC1-B34-D2.5	12/18/17	0835	G	Soil	1						X	X	Hold
AOC1-B37-D0.5	12/18/17	0810	G	Soil	1			X	X				
AOC1-B37-D1.5	12/18/17	0815	G	Soil	1						X	X	Hold
AOC1-B37-D2.5	12/18/17	0820	G	Soil	1						X	X	Hold
AOC1-B30-D0.5	12/18/17	0940	G	Soil	1			X	X				
AOC1-B30-D1.5	12/18/17	0945	G	Soil	1						X	X	Hold
AOC1-B30-D2.5	12/18/17	0950	G	Soil	1						X	X	Hold

440-198798 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12/19/17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

2.9/2.2 1.1/0.4 1K-SG

12/20/17

Page 35 of 43

12/21/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181155

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette Pulsen	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Jill Pitt, Mark	Carrier:	2 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nate P
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | Arsenic | Lead | PCBs | Dioxins | Furans | | |

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181158

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Mata	Carrier:	3 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nanette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6135	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			Lab Sampling:
Project Name: Reseda HS PEA				Job / SDG No.:
Site: Reseda High School				
PO #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans															Sample Specific Notes:
AOC1-B54-D0.5	12/18/17	1125	G	Soil	1			X	X	X																	
AOC1-B54-D1.5	12/18/17	1130	G	Soil	1						X	X															Hold
AOC1-B54-D2.5	12/18/17	1135	G	Soil	1						X	X															Hold
AOC1-B43-D0.5	12/18/17	1040	~~Soil~~ G	Soil	1			X	X																		
AOC1-B43-D1.5	12/18/17	1045	G	Soil	1						X	X															Hold
AOC1-B43-D2.5	12/18/17	1050	G	Soil	1						X	X															Hold
AOC1-B46-D0.5	12/18/17	1055	G	Soil	1			X	X																		
AOC1-B46-D1.5	12/18/17	1100	G	Soil	1						X	X															Hold
AOC1-B46-D2.5	12/18/17	1105	G	Soil	1						X	X															Hold
AOC1-B51-D0.5	12/18/17	1140	G	Soil	1			X	X																		
AOC1-B51-D1.5	12/18/17	1145	G	Soil	1						X	X															
AOC1-B51-D2.5	12/18/17	1150	G	Soil	1						X	X															

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/19/17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181157

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler: Nenette
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Metals	Furans	Sample Specific Notes:
AOC1-B38-D0.5	12/18/17	1210	G	Soil	1			X	X				
AOC1-B38-D1.5	12/18/17	1215	G	Soil	1					X	X	X	Hold
AOC1-B38-D2.5	12/18/17	1220	G	Soil	1						X	X	Hold
AOC1-B45-D0.5	12/18/17	1110	G	Soil	1			X	X				
AOC1-B45-D1.5	12/18/17	1115	G	Soil	1						X	X	Hold
AOC1-B45-D2.5	12/18/17	1120	G	Soil	1						X	X	Hold
AOC1-B41-D0.5	12/18/17	1010	G	Soil	1			X	X				
AOC1-B41-D1.5	12/18/17	1015	G	Soil	1					X	X	X	Hold
AOC1-B41-D2.5	12/18/17	1020	G	Soil	1						X	X	Hold
AOC1-B40-D0.5	12/18/17	1025	G	Soil	1			X	X				
AOC1-B40-D1.5	12/18/17	1030	G	Soil	1						X	X	Hold
AOC1-B40-D2.5	12/18/17	1035	G	Soil	1						X	X	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Page 238 of 243

12/20/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181162

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: Nuvette P.

Client Contact	Project Manager: Justin King	Site Contact: ~~Justin~~	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 8 COCs
Address: 100 west walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins NL	Furans NL	Sample Specific Notes:
AOC1-B47-D0.5	12/18/17	1155	G	S	1			X	X				
AOC1-B47-D1.5	12/18/17	1200	G	S	1						X	X	Hold
AOC1-B47-D2.5	12/18/17	1205	G	S	1						X	X	Hold
AOC1-B52-D0.5	12/18/17	1250	G	S	1			X	X				
AOC1-B52-D1.5	12/18/17	1255	G	S	1						X	X	Hold
AOC1-B52-D2.5	12/18/17	1300	G	S	1						X	X	Hold
AOC1-B55-D0.5	12/18/17	1305	G	S	1			X	X				
AOC1-B55 D1.5	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B55 D2.5	12/18/17	1315	G	S	1			X	X	NC	X	X	Hold
AOC1 B52-D1.5-Dup	12/18/17	1255	G	S	1			X	X	NC	X	X	Hold
AOC1-B55-D1.5-Dup	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B59-D0.5-Dup	12/18/17	1325	G	S	1			X	X				Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12-19-17 1000	Received by:	TA	12/19/17 10 CN
Relinquished by:	TA	(2/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:		12/19/17 1310

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181159

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin Kim	Site Contact: Nenette P	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Moore	Carrier:	6 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins	Furans	Sample Specific Notes:
AOC1-B59-D0.5	12/18/17	1320	G	S	1			X	X				
AOC1-B59-D1.5	12/18/17	1325	G	S	1					X	X		Hold
AOC1-B59-D2.5	12/18/17	1330	G	S	1					X	X		Hold
AOC1-B61-D0.5	12/18/17	1335	G	S	1			X	X				
AOC1-B61-D1.5	12/18/17	1340	G	S	1					X	X		Hold
AOC1-B61-D2.5	12/18/17	1345	G	S	1					X	X		Hold
AOC1-B70-D0.5	12/18/17	1350	G	S	1			X	X				
AOC1-B70-D1.5	12/18/17	1355	G	S	1					X	X		Hold
AOC1-B70-D2.5	12/18/17	1400	G	S	1					X	X		Hold
AOC1-B60-D0.5-Dup	12/18/17	1405	G	S	1			X	X				
AOC1-B70-D0.5-Dup	12/18/17	1355	G	S	1			X	X				
AOC1-B61-D0.5-Dup	12/18/17	1335	G	S	1			X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Parsons	12-19-17 1000		TA	12/19/17 10
Relinquished by:	TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

12/30/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181160

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 5 COCs
Address: 100 west Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOCs	Dioxin	Forever	NT	Sample Specific Notes:
AOC1-B60-D0.5	12/18/17	1405	G	S	1			X	X					
AOC1-B60-D1.5	12/18/17	1410	G	S	1						X	X		Hold
AOC1-B60-D2.5	12/18/17	1415	G	S	1						X	X		Hold
AOC1-B62-D0.5	12/18/17	1420	G	S	1			X	X					
AOC1-B62-D1.5	12/18/17	1425	G	S	1						X	X		Hold
AOC1-B62-D2.5	12/18/17	1430	G	S	1						X	X		Hold
AOC1-B67-D0.5	12/18/17	1435	G	S	1			X	X					
AOC1-B67-D1.5	12/18/17	1440	G	S	1						X	X		Hold
AOC1-B67-D2.5	12/18/17	1445	G	S	1						X	X		Hold
AOC1-B65-D0.5	12/18/17	1450	G	S	1			X	X					
AOC1-B65-D1.5	12/18/17	1455	G	S	1						X	X		Hold
AOC1-B65-D2.5	12/18/17	1500	G	S	1						X	X		Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1316

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181161

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: JD Parsons	Tel/Fax: 626-440-6133	Lab Contact:	Carrier:	8 of 8 COCs
Address: 100 west walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS DBA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	Pesticides	OCP																Sample Specific Notes:
AOC1-B64-D0.5	12/18/17	1505	G	S	1			X	X																			
AOC1-B64 D1.5	12/18/17	1510	G	S	1					-	X	X																Hold
AOC1-B64 D2.5	12/18/17	1515	G	S	1						X	X																Hold
AOC1-B58-D0.5	12/18/17	1520	G	S	1			X	X																			
AOC1-B58-D1.5	12/18/17	1525	G	S	1						X	X																Hold
AOC1 B58-D2.5	12/18/17	1530	G	S	1						X	X																Hold
E 12.18.17	12/18/17	1535	G	S	2																							
AOC1-(B40-B41-B43-B44-B45)	12/18/17		6	S									X															lab to composite sample AOC1
AOC1-(B30-B31-B33-B34)	↓		6	S									X															lab to composite sample AOC1
AOC1-(B36-B37-B38-B39)			6	S									X															lab to composite sample AOC1
AOC1-(B52-B54-B55-B60)	↓		6	S									X															lab to composite sample AOC1

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12-19-17 1000	Received by:	TA	12/19/17 1000
Relinquished by:	TA	12/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:	TA	12/19/17 1310

Page 12 of 13

12/20/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198798-1

Login Number: 198798
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	See case narrative.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198799-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/31/2017 11:41:58 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 9
Surrogate Summary 16
Method Summary 17
Lab Chronicle 18
QC Sample Results 24
QC Association Summary 29
Definitions/Glossary 32
Certification Summary 33
Chain of Custody 34
Receipt Checklists 43
Field Data Sheets 44

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198799-1	AOC1-B48-D0.5	Solid	12/19/17 07:30	12/19/17 18:55
440-198799-4	AOC1-B48-D0.5-DUP	Solid	12/19/17 07:30	12/19/17 18:55
440-198799-5	AOC1-B57-D0.5	Solid	12/19/17 07:45	12/19/17 18:55
440-198799-8	AOC1-B57-D0.5-DUP	Solid	12/19/17 07:45	12/19/17 18:55
440-198799-9	AOC1-B63-D0.5	Solid	12/19/17 08:00	12/19/17 18:55
440-198799-12	E121917	Water	12/19/17 15:00	12/19/17 18:55
440-198799-13	AOC1-B66-D0.5	Solid	12/19/17 08:15	12/19/17 18:55
440-198799-16	AOC1-B69-D0.5	Solid	12/19/17 08:30	12/19/17 18:55
440-198799-19	AOC1-B68-D0.5	Solid	12/19/17 08:45	12/19/17 18:55
440-198799-22	AOC1-B71-D0.5	Solid	12/19/17 09:00	12/19/17 18:55
440-198799-25	AOC1-B72-D0.5	Solid	12/19/17 09:15	12/19/17 18:55
440-198799-28	AOC1-B73-D0.5	Solid	12/19/17 09:30	12/19/17 18:55
440-198799-31	AOC1-B74-D0.5	Solid	12/19/17 09:45	12/19/17 18:55
440-198799-34	AOC1-B75-D0.5	Solid	12/19/17 10:00	12/19/17 18:55
440-198799-37	AOC1-B84-D0.5	Solid	12/19/17 10:15	12/19/17 18:55
440-198799-40	AOC1-B86-D0.5	Solid	12/19/17 10:30	12/19/17 18:55
440-198799-43	AOC1-B89-D0.5	Solid	12/19/17 10:45	12/19/17 18:55
440-198799-46	AOC1-B88-D0.5	Solid	12/19/17 11:00	12/19/17 18:55
440-198799-53	AOC1-B85-D0.5	Solid	12/19/17 11:30	12/19/17 18:55
440-198799-56	AOC1-B87-D0.5	Solid	12/19/17 11:45	12/19/17 18:55
440-198799-59	AOC1-B82-D0.5	Solid	12/19/17 12:00	12/19/17 18:55
440-198799-62	AOC1-B79-D0.5	Solid	12/19/17 12:15	12/19/17 18:55
440-198799-65	AOC1-B80-D0.5	Solid	12/19/17 12:30	12/19/17 18:55
440-198799-68	AOC1-B83-D0.5	Solid	12/19/17 12:45	12/19/17 18:55
440-198799-71	AOC1-B81-D0.5	Solid	12/19/17 13:00	12/19/17 18:55
440-198799-74	AOC1-B78-D0.5	Solid	12/19/17 13:15	12/19/17 18:55
440-198799-77	AOC1-B77-D0.5	Solid	12/19/17 13:30	12/19/17 18:55
440-198799-80	AOC1-B76-D0.5	Solid	12/19/17 13:45	12/19/17 18:55
440-198799-83	AOC1-B22-D0.5	Solid	12/19/17 14:00	12/19/17 18:55
440-198799-86	AOC1-B19-D0.5	Solid	12/19/17 14:15	12/19/17 18:55
440-198799-89	AOC1-B20-D0.5	Solid	12/19/17 14:30	12/19/17 18:55
440-198799-92	AOC1-B15-D0.5	Solid	12/19/17 14:45	12/19/17 18:55

Job ID: 440-198799-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198799-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2017 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.7º C and 5.9º C.

GC Semi VOA
Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448026 and analytical batch 440-448300.The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and/or precision of Lead for preparation batch 440-448040 and analytical batch 440-448405 were outside control limits. The associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Client Sample ID: AOC1-B48-D0.5 — Lab Sample ID: 440-198799-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B48-D0.5-DUP — Lab Sample ID: 440-198799-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B57-D0.5 — Lab Sample ID: 440-198799-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B57-D0.5-DUP — Lab Sample ID: 440-198799-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B63-D0.5 — Lab Sample ID: 440-198799-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: E121917 — Lab Sample ID: 440-198799-12

No Detections.

Client Sample ID: AOC1-B66-D0.5 — Lab Sample ID: 440-198799-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	25		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B69-D0.5 — Lab Sample ID: 440-198799-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	44		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B68-D0.5 — Lab Sample ID: 440-198799-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	30		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B71-D0.5 — Lab Sample ID: 440-198799-22

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B71-D0.5 (Continued) — Lab Sample ID: 440-198799-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	18		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B72-D0.5 — Lab Sample ID: 440-198799-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	38		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B73-D0.5 — Lab Sample ID: 440-198799-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	37		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B74-D0.5 — Lab Sample ID: 440-198799-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	23		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B75-D0.5 — Lab Sample ID: 440-198799-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.7		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B84-D0.5 — Lab Sample ID: 440-198799-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	17		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B86-D0.5 — Lab Sample ID: 440-198799-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.8	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	4.8		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B89-D0.5 — Lab Sample ID: 440-198799-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.1		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B88-D0.5 — Lab Sample ID: 440-198799-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	10		2.0	0.99	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Client Sample ID: AOC1-B85-D0.5 — Lab Sample ID: 440-198799-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.8		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B87-D0.5 — Lab Sample ID: 440-198799-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B82-D0.5 — Lab Sample ID: 440-198799-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	3.8		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B79-D0.5 — Lab Sample ID: 440-198799-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	4.9		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B80-D0.5 — Lab Sample ID: 440-198799-65

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.7	J	3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	3.7		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B83-D0.5 — Lab Sample ID: 440-198799-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	10		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-D0.5 — Lab Sample ID: 440-198799-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	22		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-D0.5 — Lab Sample ID: 440-198799-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	37		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-D0.5 — Lab Sample ID: 440-198799-77

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	19		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Client Sample ID: AOC1-B76-D0.5 — Lab Sample ID: 440-198799-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13	F1 F2	2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-D0.5 — Lab Sample ID: 440-198799-83

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	21		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	32		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B19-D0.5 — Lab Sample ID: 440-198799-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.6		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B20-D0.5 — Lab Sample ID: 440-198799-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	18		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B15-D0.5 — Lab Sample ID: 440-198799-92

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	42		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B48-D0.5

Lab Sample ID: 440-198799-1

Date Collected: 12/19/17 07:30

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 14:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*12/20/17 17:13*	*12/21/17 14:34*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.0**		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:08	5
Lead	**5.7**		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:08	5

Client Sample ID: AOC1-B48-D0.5-DUP

Lab Sample ID: 440-198799-4

Date Collected: 12/19/17 07:30

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*12/20/17 17:13*	*12/21/17 14:48*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:10	5
Lead	**5.7**		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:10	5

Client Sample ID: AOC1-B57-D0.5

Lab Sample ID: 440-198799-5

Date Collected: 12/19/17 07:45

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 15:01	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	58		45 - 120	12/20/17 17:13	12/21/17 15:01	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:19	5
Lead	9.7		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:19	5

Client Sample ID: AOC1-B57-D0.5-DUP

Lab Sample ID: 440-198799-8

Date Collected: 12/19/17 07:45

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1221	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1232	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1242	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1248	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1254	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1
Aroclor 1260	ND		49	17	ug/Kg		12/20/17 17:13	12/21/17 15:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	48		45 - 120	12/20/17 17:13	12/21/17 15:14	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:21	5
Lead	11		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:21	5

Client Sample ID: AOC1-B63-D0.5

Lab Sample ID: 440-198799-9

Date Collected: 12/19/17 08:00

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:23	5
Lead	9.0		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:23	5

Client Sample ID: E121917

Lab Sample ID: 440-198799-12

Date Collected: 12/19/17 15:00

Matrix: Water

Date Received: 12/19/17 18:55

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	81		26 - 115	12/21/17 09:01	12/22/17 15:54	1

Client Sample ID: E121917 — **Lab Sample ID: 440-198799-12**
Date Collected: 12/19/17 15:00 — **Matrix: Water**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/21/17 11:03	12/21/17 22:00	1
Lead	ND		0.0050	0.0038	mg/L		12/21/17 11:03	12/21/17 22:00	1

Client Sample ID: AOC1-B66-D0.5 — **Lab Sample ID: 440-198799-13**
Date Collected: 12/19/17 08:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:25	5
Lead	25		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:25	5

Client Sample ID: AOC1-B69-D0.5 — **Lab Sample ID: 440-198799-16**
Date Collected: 12/19/17 08:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:27	5
Lead	44		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:27	5

Client Sample ID: AOC1-B68-D0.5 — **Lab Sample ID: 440-198799-19**
Date Collected: 12/19/17 08:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 13:29	5
Lead	30		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 13:29	5

Client Sample ID: AOC1-B71-D0.5 — **Lab Sample ID: 440-198799-22**
Date Collected: 12/19/17 09:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:21	5
Lead	18		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:21	5

Client Sample ID: AOC1-B72-D0.5 — **Lab Sample ID: 440-198799-25**
Date Collected: 12/19/17 09:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:36	5
Lead	38		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:36	5

Client Sample ID: AOC1-B73-D0.5 — **Lab Sample ID: 440-198799-28**
Date Collected: 12/19/17 09:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:38	5
Lead	37		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 16:38	5

Client Sample ID: AOC1-B74-D0.5 — **Lab Sample ID: 440-198799-31**
Date Collected: 12/19/17 09:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:41	5
Lead	23		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:41	5

Client Sample ID: AOC1-B75-D0.5 — **Lab Sample ID: 440-198799-34**
Date Collected: 12/19/17 10:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:43	5
Lead	6.7		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:43	5

Client Sample ID: AOC1-B84-D0.5 — **Lab Sample ID: 440-198799-37**
Date Collected: 12/19/17 10:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.8		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:45	5
Lead	17		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:45	5

Client Sample ID: AOC1-B86-D0.5 — **Lab Sample ID: 440-198799-40**
Date Collected: 12/19/17 10:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.8	J	3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:47	5
Lead	4.8		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 16:47	5

Client Sample ID: AOC1-B89-D0.5 — **Lab Sample ID: 440-198799-43**
Date Collected: 12/19/17 10:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:49	5
Lead	8.1		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 16:49	5

Client Sample ID: AOC1-B88-D0.5 — **Lab Sample ID: 440-198799-46**
Date Collected: 12/19/17 11:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:51	5
Lead	10		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:51	5

Client Sample ID: AOC1-B85-D0.5 — **Lab Sample ID: 440-198799-53**
Date Collected: 12/19/17 11:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:03	5
Lead	6.8		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 17:03	5

Client Sample ID: AOC1-B87-D0.5 — **Lab Sample ID: 440-198799-56**
Date Collected: 12/19/17 11:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:05	5
Lead	7.6		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 17:05	5

Client Sample ID: AOC1-B82-D0.5 — **Lab Sample ID: 440-198799-59**
Date Collected: 12/19/17 12:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.1		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:08	5
Lead	3.8		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 17:08	5

Client Sample ID: AOC1-B79-D0.5 — **Lab Sample ID: 440-198799-62**
Date Collected: 12/19/17 12:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.4		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:10	5
Lead	4.9		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 17:10	5

Client Sample ID: AOC1-B80-D0.5 — **Lab Sample ID: 440-198799-65**
Date Collected: 12/19/17 12:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	2.7	J	3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:12	5
Lead	3.7		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 17:12	5

Client Sample ID: AOC1-B83-D0.5 — **Lab Sample ID: 440-198799-68**
Date Collected: 12/19/17 12:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:14	5
Lead	10		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 17:14	5

Client Sample ID: AOC1-B81-D0.5 — **Lab Sample ID: 440-198799-71**
Date Collected: 12/19/17 13:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:16	5
Lead	22		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 17:16	5

Client Sample ID: AOC1-B78-D0.5 — **Lab Sample ID: 440-198799-74**
Date Collected: 12/19/17 13:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:18	5
Lead	37		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 17:18	5

Client Sample ID: AOC1-B77-D0.5 — **Lab Sample ID: 440-198799-77**
Date Collected: 12/19/17 13:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 17:38	5
Lead	19		2.0	1.0	mg/Kg		12/21/17 09:44	12/22/17 17:38	5

Client Sample ID: AOC1-B76-D0.5 — **Lab Sample ID: 440-198799-80**
Date Collected: 12/19/17 13:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 15:46	5
Lead	13	F1 F2	2.0	1.0	mg/Kg		12/21/17 09:47	12/22/17 15:46	5

Client Sample ID: AOC1-B22-D0.5 — **Lab Sample ID: 440-198799-83**
Date Collected: 12/19/17 14:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 15:57	5
Lead	32		2.0	1.0	mg/Kg		12/21/17 09:47	12/22/17 15:57	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Client Sample ID: AOC1-B19-D0.5

Lab Sample ID: 440-198799-86

Date Collected: 12/19/17 14:15

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 16:06	5
Lead	5.6		2.0	0.99	mg/Kg		12/21/17 09:47	12/22/17 16:06	5

Client Sample ID: AOC1-B20-D0.5

Lab Sample ID: 440-198799-89

Date Collected: 12/19/17 14:30

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 16:08	5
Lead	18		2.0	1.0	mg/Kg		12/21/17 09:47	12/22/17 16:08	5

Client Sample ID: AOC1-B15-D0.5

Lab Sample ID: 440-198799-92

Date Collected: 12/19/17 14:45

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 16:10	5
Lead	42		2.0	1.0	mg/Kg		12/21/17 09:47	12/22/17 16:10	5

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-198797-G-1-B MS	Matrix Spike	48
440-198797-G-1-C MSD	Matrix Spike Duplicate	48
440-198799-1	AOC1-B48-D0.5	51
440-198799-4	AOC1-B48-D0.5-DUP	48
440-198799-5	AOC1-B57-D0.5	58
440-198799-8	AOC1-B57-D0.5-DUP	48
LCS 440-447926/2-A	Lab Control Sample	72
MB 440-447926/1-A	Method Blank	80

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(26-115)
440-198799-12	E121917	81
LCS 440-448026/2-A	Lab Control Sample	82
LCSD 440-448026/3-A	Lab Control Sample Dup	86
MB 440-448026/1-A	Method Blank	89

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Method	Method Description	Protocol	Laboratory
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B48-D0.5

Lab Sample ID: 440-198799-1

Date Collected: 12/19/17 07:30

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.11 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 14:34	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:08	K1E	TAL IRV

Client Sample ID: AOC1-B48-D0.5-DUP

Lab Sample ID: 440-198799-4

Date Collected: 12/19/17 07:30

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.34 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 14:48	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:10	K1E	TAL IRV

Client Sample ID: AOC1-B57-D0.5

Lab Sample ID: 440-198799-5

Date Collected: 12/19/17 07:45

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 15:01	JM	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:19	K1E	TAL IRV

Client Sample ID: AOC1-B57-D0.5-DUP

Lab Sample ID: 440-198799-8

Date Collected: 12/19/17 07:45

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	2 mL	447926	12/20/17 17:13	VA	TAL IRV
Total/NA	Analysis	8082		1			448043	12/21/17 15:14	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:21	K1E	TAL IRV

Client Sample ID: AOC1-B63-D0.5

Lab Sample ID: 440-198799-9

Date Collected: 12/19/17 08:00

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:23	K1E	TAL IRV

Client Sample ID: E121917

Lab Sample ID: 440-198799-12

Date Collected: 12/19/17 15:00

Matrix: Water

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			250 mL	2 mL	448026	12/21/17 09:01	SMF	TAL IRV
Total/NA	Analysis	8082		1			448300	12/22/17 15:54	JM	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	448073	12/21/17 11:03	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			448253	12/21/17 22:00	VS	TAL IRV

Client Sample ID: AOC1-B66-D0.5

Lab Sample ID: 440-198799-13

Date Collected: 12/19/17 08:15

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:25	K1E	TAL IRV

Client Sample ID: AOC1-B69-D0.5

Lab Sample ID: 440-198799-16

Date Collected: 12/19/17 08:30

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:27	K1E	TAL IRV

Client Sample ID: AOC1-B68-D0.5

Lab Sample ID: 440-198799-19

Date Collected: 12/19/17 08:45

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448036	12/21/17 09:41	DT	TAL IRV
Total/NA	Analysis	6010B		5			448381	12/22/17 13:29	K1E	TAL IRV

Client Sample ID: AOC1-B71-D0.5

Lab Sample ID: 440-198799-22

Date Collected: 12/19/17 09:00

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:21	VS	TAL IRV

Client Sample ID: AOC1-B72-D0.5

Lab Sample ID: 440-198799-25

Date Collected: 12/19/17 09:15

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV

Client Sample ID: AOC1-B72-D0.5 — **Lab Sample ID: 440-198799-25**
Date Collected: 12/19/17 09:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		5			448405	12/22/17 16:36	VS	TAL IRV

Client Sample ID: AOC1-B73-D0.5 — **Lab Sample ID: 440-198799-28**
Date Collected: 12/19/17 09:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:38	VS	TAL IRV

Client Sample ID: AOC1-B74-D0.5 — **Lab Sample ID: 440-198799-31**
Date Collected: 12/19/17 09:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:41	VS	TAL IRV

Client Sample ID: AOC1-B75-D0.5 — **Lab Sample ID: 440-198799-34**
Date Collected: 12/19/17 10:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:43	VS	TAL IRV

Client Sample ID: AOC1-B84-D0.5 — **Lab Sample ID: 440-198799-37**
Date Collected: 12/19/17 10:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:45	VS	TAL IRV

Client Sample ID: AOC1-B86-D0.5 — **Lab Sample ID: 440-198799-40**
Date Collected: 12/19/17 10:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:47	VS	TAL IRV

Client Sample ID: AOC1-B89-D0.5 — **Lab Sample ID: 440-198799-43**
Date Collected: 12/19/17 10:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:49	VS	TAL IRV

Client Sample ID: AOC1-B88-D0.5 — **Lab Sample ID: 440-198799-46**
Date Collected: 12/19/17 11:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:51	VS	TAL IRV

Client Sample ID: AOC1-B85-D0.5 — **Lab Sample ID: 440-198799-53**
Date Collected: 12/19/17 11:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:03	VS	TAL IRV

Client Sample ID: AOC1-B87-D0.5 — **Lab Sample ID: 440-198799-56**
Date Collected: 12/19/17 11:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:05	VS	TAL IRV

Client Sample ID: AOC1-B82-D0.5 — **Lab Sample ID: 440-198799-59**
Date Collected: 12/19/17 12:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:08	VS	TAL IRV

Client Sample ID: AOC1-B79-D0.5 — **Lab Sample ID: 440-198799-62**
Date Collected: 12/19/17 12:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:10	VS	TAL IRV

Client Sample ID: AOC1-B80-D0.5 — **Lab Sample ID: 440-198799-65**
Date Collected: 12/19/17 12:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:12	VS	TAL IRV

Client Sample ID: AOC1-B83-D0.5 — **Lab Sample ID: 440-198799-68**
Date Collected: 12/19/17 12:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:14	VS	TAL IRV

Client Sample ID: AOC1-B81-D0.5 — **Lab Sample ID: 440-198799-71**
Date Collected: 12/19/17 13:00 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:16	VS	TAL IRV

Client Sample ID: AOC1-B78-D0.5 — **Lab Sample ID: 440-198799-74**
Date Collected: 12/19/17 13:15 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:18	VS	TAL IRV

Client Sample ID: AOC1-B77-D0.5 — **Lab Sample ID: 440-198799-77**
Date Collected: 12/19/17 13:30 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448039	12/21/17 09:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 17:38	VS	TAL IRV

Client Sample ID: AOC1-B76-D0.5 — **Lab Sample ID: 440-198799-80**
Date Collected: 12/19/17 13:45 — **Matrix: Solid**
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448040	12/21/17 09:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 15:46	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Client Sample ID: AOC1-B22-D0.5

Lab Sample ID: 440-198799-83

Date Collected: 12/19/17 14:00
Matrix: Solid
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448040	12/21/17 09:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 15:57	VS	TAL IRV

Client Sample ID: AOC1-B19-D0.5

Lab Sample ID: 440-198799-86

Date Collected: 12/19/17 14:15
Matrix: Solid
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448040	12/21/17 09:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:06	VS	TAL IRV

Client Sample ID: AOC1-B20-D0.5

Lab Sample ID: 440-198799-89

Date Collected: 12/19/17 14:30
Matrix: Solid
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448040	12/21/17 09:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:08	VS	TAL IRV

Client Sample ID: AOC1-B15-D0.5

Lab Sample ID: 440-198799-92

Date Collected: 12/19/17 14:45
Matrix: Solid
Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448040	12/21/17 09:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448405	12/22/17 16:10	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-447926/1-A
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 447926

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1221	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1232	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1242	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1248	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1254	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1
Aroclor 1260	ND		50	17	ug/Kg		12/20/17 17:13	12/21/17 10:47	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*12/20/17 17:13*	*12/21/17 10:47*	*1*

Lab Sample ID: LCS 440-447926/2-A
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 447926

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	222		ug/Kg		83	65 - 115		
Aroclor 1260			267	216		ug/Kg		81	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*

Lab Sample ID: 440-198797-G-1-B MS
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 447926

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND	F1	259	140		ug/Kg		54	50 - 120		
Aroclor 1260	ND	F1	259	132		ug/Kg		51	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Lab Sample ID: 440-198797-G-1-C MSD
Matrix: Solid
Analysis Batch: 448043

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 447926

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND	F1	266	154		ug/Kg		58	50 - 120	9	30
Aroclor 1260	ND	F1	266	132	F1	ug/Kg		49	50 - 125	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-448026/1-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448026

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/21/17 09:01	12/22/17 15:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*26 - 115*	*12/21/17 09:01*	*12/22/17 15:15*	*1*

Lab Sample ID: LCS 440-448026/2-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448026

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	3.43		ug/L		86	59 - 115
Aroclor 1260	4.00	3.78		ug/L		94	48 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*26 - 115*

Lab Sample ID: LCSD 440-448026/3-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448026

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.70		ug/L		92	59 - 115	8	30
Aroclor 1260	4.00	4.05		ug/L		101	48 - 115	7	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*86*		*26 - 115*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448036/1-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448036

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/21/17 09:41	12/22/17 12:23	5
Lead	ND		2.0	1.0	mg/Kg		12/21/17 09:41	12/22/17 12:23	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-448036/2-A ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	47.0		mg/Kg		94	80 - 120
Lead	49.8	47.5		mg/Kg		95	80 - 120

Lab Sample ID: 440-198798-A-61-B MS ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.5		50.0	53.8		mg/Kg		93	75 - 125
Lead	23		50.0	66.2		mg/Kg		86	75 - 125

Lab Sample ID: 440-198798-A-61-C MSD ^5
Matrix: Solid
Analysis Batch: 448381

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448036

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.5		50.0	54.0		mg/Kg		93	75 - 125	0	20
Lead	23		50.0	67.3		mg/Kg		88	75 - 125	2	20

Lab Sample ID: MB 440-448039/1-A ^5
Matrix: Solid
Analysis Batch: 448405

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448039

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/21/17 09:44	12/22/17 16:17	5
Lead	ND		2.0	0.99	mg/Kg		12/21/17 09:44	12/22/17 16:17	5

Lab Sample ID: LCS 440-448039/2-A ^5
Matrix: Solid
Analysis Batch: 448405

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448039

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	46.5		mg/Kg		93	80 - 120
Lead	49.8	46.5		mg/Kg		93	80 - 120

Lab Sample ID: 440-198799-22 MS
Matrix: Solid
Analysis Batch: 448405

Client Sample ID: AOC1-B71-D0.5
Prep Type: Total/NA
Prep Batch: 448039

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.5		49.8	52.7		mg/Kg		93	75 - 125
Lead	18		49.8	66.9		mg/Kg		97	75 - 125

Lab Sample ID: 440-198799-22 MSD
Matrix: Solid
Analysis Batch: 448405

Client Sample ID: AOC1-B71-D0.5
Prep Type: Total/NA
Prep Batch: 448039

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.5		49.5	50.3		mg/Kg		88	75 - 125	5	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198799-22 MSD — **Client Sample ID: AOC1-B71-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448405 — **Prep Batch: 448039**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	18		49.5	61.5		mg/Kg		87	75 - 125	8	20

Lab Sample ID: MB 440-448040/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448405 — **Prep Batch: 448040**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/21/17 09:47	12/22/17 15:42	5
Lead	ND		2.0	1.0	mg/Kg		12/21/17 09:47	12/22/17 15:42	5

Lab Sample ID: LCS 440-448040/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448405 — **Prep Batch: 448040**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	45.9		mg/Kg		92	80 - 120
Lead	49.8	46.1		mg/Kg		93	80 - 120

Lab Sample ID: 440-198799-80 MS — **Client Sample ID: AOC1-B76-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448405 — **Prep Batch: 448040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.1		50.0	50.1		mg/Kg		86	75 - 125
Lead	13	F1 F2	50.0	96.6	F1	mg/Kg		167	75 - 125

Lab Sample ID: 440-198799-80 MSD — **Client Sample ID: AOC1-B76-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448405 — **Prep Batch: 448040**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.1		49.8	51.1		mg/Kg		88	75 - 125	2	20
Lead	13	F1 F2	49.8	66.2	F2	mg/Kg		106	75 - 125	37	20

Lab Sample ID: MB 440-448073/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 448253 — **Prep Batch: 448073**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/21/17 11:03	12/21/17 21:33	1
Lead	ND		0.0050	0.0038	mg/L		12/21/17 11:03	12/21/17 21:33	1

Lab Sample ID: LCS 440-448073/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 448253 — **Prep Batch: 448073**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.994		mg/L		99	80 - 120
Lead	1.00	0.992		mg/L		99	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198441-B-5-B MS
Matrix: Water
Analysis Batch: 448253

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 448073

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.05		mg/L		105	75 - 125
Lead	ND		1.00	0.986		mg/L		99	75 - 125

Lab Sample ID: 440-198441-B-5-C MSD
Matrix: Water
Analysis Batch: 448253

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 448073

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.04		mg/L		104	75 - 125	1	20
Lead	ND		1.00	0.969		mg/L		97	75 - 125	2	20

GC Semi VOA

Prep Batch: 447926

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-1	AOC1-B48-D0.5	Total/NA	Solid	3546	
440-198799-4	AOC1-B48-D0.5-DUP	Total/NA	Solid	3546	
440-198799-5	AOC1-B57-D0.5	Total/NA	Solid	3546	
440-198799-8	AOC1-B57-D0.5-DUP	Total/NA	Solid	3546	
MB 440-447926/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-447926/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-198797-G-1-B MS	Matrix Spike	Total/NA	Solid	3546	
440-198797-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 448026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total/NA	Water	3510C	
MB 440-448026/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448026/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448026/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 448043

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-1	AOC1-B48-D0.5	Total/NA	Solid	8082	447926
440-198799-4	AOC1-B48-D0.5-DUP	Total/NA	Solid	8082	447926
440-198799-5	AOC1-B57-D0.5	Total/NA	Solid	8082	447926
440-198799-8	AOC1-B57-D0.5-DUP	Total/NA	Solid	8082	447926
MB 440-447926/1-A	Method Blank	Total/NA	Solid	8082	447926
LCS 440-447926/2-A	Lab Control Sample	Total/NA	Solid	8082	447926
440-198797-G-1-B MS	Matrix Spike	Total/NA	Solid	8082	447926
440-198797-G-1-C MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	447926

Analysis Batch: 448300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total/NA	Water	8082	448026
MB 440-448026/1-A	Method Blank	Total/NA	Water	8082	448026
LCS 440-448026/2-A	Lab Control Sample	Total/NA	Water	8082	448026
LCSD 440-448026/3-A	Lab Control Sample Dup	Total/NA	Water	8082	448026

Metals

Prep Batch: 448036

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-1	AOC1-B48-D0.5	Total/NA	Solid	3050B	
440-198799-4	AOC1-B48-D0.5-DUP	Total/NA	Solid	3050B	
440-198799-5	AOC1-B57-D0.5	Total/NA	Solid	3050B	
440-198799-8	AOC1-B57-D0.5-DUP	Total/NA	Solid	3050B	
440-198799-9	AOC1-B63-D0.5	Total/NA	Solid	3050B	
440-198799-13	AOC1-B66-D0.5	Total/NA	Solid	3050B	
440-198799-16	AOC1-B69-D0.5	Total/NA	Solid	3050B	
440-198799-19	AOC1-B68-D0.5	Total/NA	Solid	3050B	
MB 440-448036/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448036/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-A-61-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198798-A-61-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 448039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-22	AOC1-B71-D0.5	Total/NA	Solid	3050B	
440-198799-25	AOC1-B72-D0.5	Total/NA	Solid	3050B	
440-198799-28	AOC1-B73-D0.5	Total/NA	Solid	3050B	
440-198799-31	AOC1-B74-D0.5	Total/NA	Solid	3050B	
440-198799-34	AOC1-B75-D0.5	Total/NA	Solid	3050B	
440-198799-37	AOC1-B84-D0.5	Total/NA	Solid	3050B	
440-198799-40	AOC1-B86-D0.5	Total/NA	Solid	3050B	
440-198799-43	AOC1-B89-D0.5	Total/NA	Solid	3050B	
440-198799-46	AOC1-B88-D0.5	Total/NA	Solid	3050B	
440-198799-53	AOC1-B85-D0.5	Total/NA	Solid	3050B	
440-198799-56	AOC1-B87-D0.5	Total/NA	Solid	3050B	
440-198799-59	AOC1-B82-D0.5	Total/NA	Solid	3050B	
440-198799-62	AOC1-B79-D0.5	Total/NA	Solid	3050B	
440-198799-65	AOC1-B80-D0.5	Total/NA	Solid	3050B	
440-198799-68	AOC1-B83-D0.5	Total/NA	Solid	3050B	
440-198799-71	AOC1-B81-D0.5	Total/NA	Solid	3050B	
440-198799-74	AOC1-B78-D0.5	Total/NA	Solid	3050B	
440-198799-77	AOC1-B77-D0.5	Total/NA	Solid	3050B	
MB 440-448039/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448039/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198799-22 MS	AOC1-B71-D0.5	Total/NA	Solid	3050B	
440-198799-22 MSD	AOC1-B71-D0.5	Total/NA	Solid	3050B	

Prep Batch: 448040

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-80	AOC1-B76-D0.5	Total/NA	Solid	3050B	
440-198799-83	AOC1-B22-D0.5	Total/NA	Solid	3050B	
440-198799-86	AOC1-B19-D0.5	Total/NA	Solid	3050B	
440-198799-89	AOC1-B20-D0.5	Total/NA	Solid	3050B	
440-198799-92	AOC1-B15-D0.5	Total/NA	Solid	3050B	
MB 440-448040/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448040/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198799-80 MS	AOC1-B76-D0.5	Total/NA	Solid	3050B	
440-198799-80 MSD	AOC1-B76-D0.5	Total/NA	Solid	3050B	

Prep Batch: 448073

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total Recoverable	Water	3005A	
MB 440-448073/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-448073/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-198441-B-5-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-198441-B-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 448253

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total Recoverable	Water	6010B	448073
MB 440-448073/1-A	Method Blank	Total Recoverable	Water	6010B	448073
LCS 440-448073/2-A	Lab Control Sample	Total Recoverable	Water	6010B	448073
440-198441-B-5-B MS	Matrix Spike	Total Recoverable	Water	6010B	448073
440-198441-B-5-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	448073

Metals (Continued)

Analysis Batch: 448381

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-1	AOC1-B48-D0.5	Total/NA	Solid	6010B	448036
440-198799-4	AOC1-B48-D0.5-DUP	Total/NA	Solid	6010B	448036
440-198799-5	AOC1-B57-D0.5	Total/NA	Solid	6010B	448036
440-198799-8	AOC1-B57-D0.5-DUP	Total/NA	Solid	6010B	448036
440-198799-9	AOC1-B63-D0.5	Total/NA	Solid	6010B	448036
440-198799-13	AOC1-B66-D0.5	Total/NA	Solid	6010B	448036
440-198799-16	AOC1-B69-D0.5	Total/NA	Solid	6010B	448036
440-198799-19	AOC1-B68-D0.5	Total/NA	Solid	6010B	448036
MB 440-448036/1-A ^5	Method Blank	Total/NA	Solid	6010B	448036
LCS 440-448036/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448036
440-198798-A-61-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	448036
440-198798-A-61-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	448036

Analysis Batch: 448405

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-22	AOC1-B71-D0.5	Total/NA	Solid	6010B	448039
440-198799-25	AOC1-B72-D0.5	Total/NA	Solid	6010B	448039
440-198799-28	AOC1-B73-D0.5	Total/NA	Solid	6010B	448039
440-198799-31	AOC1-B74-D0.5	Total/NA	Solid	6010B	448039
440-198799-34	AOC1-B75-D0.5	Total/NA	Solid	6010B	448039
440-198799-37	AOC1-B84-D0.5	Total/NA	Solid	6010B	448039
440-198799-40	AOC1-B86-D0.5	Total/NA	Solid	6010B	448039
440-198799-43	AOC1-B89-D0.5	Total/NA	Solid	6010B	448039
440-198799-46	AOC1-B88-D0.5	Total/NA	Solid	6010B	448039
440-198799-53	AOC1-B85-D0.5	Total/NA	Solid	6010B	448039
440-198799-56	AOC1-B87-D0.5	Total/NA	Solid	6010B	448039
440-198799-59	AOC1-B82-D0.5	Total/NA	Solid	6010B	448039
440-198799-62	AOC1-B79-D0.5	Total/NA	Solid	6010B	448039
440-198799-65	AOC1-B80-D0.5	Total/NA	Solid	6010B	448039
440-198799-68	AOC1-B83-D0.5	Total/NA	Solid	6010B	448039
440-198799-71	AOC1-B81-D0.5	Total/NA	Solid	6010B	448039
440-198799-74	AOC1-B78-D0.5	Total/NA	Solid	6010B	448039
440-198799-77	AOC1-B77-D0.5	Total/NA	Solid	6010B	448039
440-198799-80	AOC1-B76-D0.5	Total/NA	Solid	6010B	448040
440-198799-83	AOC1-B22-D0.5	Total/NA	Solid	6010B	448040
440-198799-86	AOC1-B19-D0.5	Total/NA	Solid	6010B	448040
440-198799-89	AOC1-B20-D0.5	Total/NA	Solid	6010B	448040
440-198799-92	AOC1-B15-D0.5	Total/NA	Solid	6010B	448040
MB 440-448039/1-A ^5	Method Blank	Total/NA	Solid	6010B	448039
MB 440-448040/1-A ^5	Method Blank	Total/NA	Solid	6010B	448040
LCS 440-448039/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448039
LCS 440-448040/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448040
440-198799-22 MS	AOC1-B71-D0.5	Total/NA	Solid	6010B	448039
440-198799-22 MSD	AOC1-B71-D0.5	Total/NA	Solid	6010B	448039
440-198799-80 MS	AOC1-B76-D0.5	Total/NA	Solid	6010B	448040
440-198799-80 MSD	AOC1-B76-D0.5	Total/NA	Solid	6010B	448040

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181118

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Patti Nemeth	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 9 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nemeth
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rosd HS PEA	☐ 1 week			
Site: Rosch High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Dioxin	Furan	Sample Specific Notes:
AOC1-B48-D0.5	12/19/17	0730	G	S	1			X	X	X			
AOC1-B48-D1.5	12/19/17	0735	G	S	1								Hold
AOC1-B48-D2.5	12/19/17	0740	G	S	1								Hold
AOC1-B48-D0.5-Dup	12/19/17	0730	G	S	1			X	X	X			
AOC1-B57-D0.5	12/19/17	0745	G	S	1			X	X	X			
AOC1-B57-D1.5	12/19/17	0750	G	S	1								Hold
AOC1-B57-D2.5	12/19/17	0755	G	S	1								Hold
AOC1-B57-D0.5-Dup	12/19/17	0745	G	S	1			X	X	X			
AOC1-B63-D0.5	12/19/17	0800	G	S	1			X	X				~~Hold~~ NC
AOC1-B63-D1.5	12/19/17	0805	G	S	1								Hold
AOC1-B63-D2.5	12/19/17	0810	G	S	1								Hold
E12917	12/19/17	1500	G	S	7			X	X	X	X		

440-198799 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.9 5.7
6.1 5.9

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 6.1 Corr'd: 5.9 | Therm ID No.: 1284

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by: OCS	OCS	12/19/17 3:55 p.m.
Relinquished by: OCS	OCS	12/19/17 1655	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1655

Page 24 of 45

12/20/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Tomlson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Kathy Mata	Carrier:	2 of 9 COCs
Address: 100 N Walnut St	Analysis Turnaround Time			Sampler: NT
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B66-D0.5	12/19/17	0815	G	S	1			X	X	
AOC1-B66-D1.5	12/19/17	0820	G	S	1					Hold
AOC1-B66-D2.5	12/19/17	0825	G	S	1					Hold
AOC1-B69-D0.5	12/19/17	0830	G	S	1			X	X	
AOC1-B69-D1.5	12/19/17	0835	G	S	1					Hold
AOC1-B69-D2.5	12/19/17	0840	G	S	1					Hold
AOC1-B68-D0.5	12/19/17	0845	G	S	1			X	X	
AOC1-B68-D1.5	12/19/17	0850	G	S	1					Hold
AOC1-B68-D2.5	12/19/17	0855	G	S	1					Hold
AOC1-B71-D0.5	12/19/17	0900	G	S	1			X	X	
AOC1-B71-D1.5	12/19/17	0905	G	S	1					Hold
AOC1-B71-D2.5	12/19/17	0910	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	DCS	12/19/17 3:35pm
Relinquished by:	DCS	12/19/17 6:56 PM	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181121

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Joseph Kahs	Site Contact: N. Coulson	Date: 12/17/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: Patty Mata	Carrier: ~~FedEx~~	3 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below 5 + 1			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B72-00.5	12/19/17	0915	G	S	1			X	X	
AOC1-B72-01.5	12/19/17	0920	G	S	1					Hold
AOC1-B72-02.5	12/19/17	0925	G	S	1					Hold
AOC1-B73-00.5	12/19/17	0930	G	S	1			X	X	
AOC1-B73-01.5	12/19/17	0935	G	S	1					Hold
AOC1-B73-02.5	12/19/17	0940	G	S	1					Hold
AOC1-B74-00.5	12/19/17	0945	G	S	1			X	X	
AOC1-B74-01.5	12/19/17	0950	G	S	1					Hold
AOC1-B74-02.5	12/19/17	0955	G	S	1					Hold
AOC1-B75-00.5	12/19/17	1000	G	S	1			X	X	
AOC1-B75-01.5	12/19/17	1005	G	S	1					Hold
AOC1-B75-02.5	12/19/17	1010	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
[signature]	Parsons	12/19/17	[signature]	DCS	12/19/17 3:55 pm
Relinquished by: [signature]	Company: DCS	Date/Time: 12/19/17 6:55 pm	Received by: [signature]	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: [signature]	Company: TA-I	Date/Time: 12/19/17 1855

Page 96 of 245

12/20/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181122

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N Poulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	4 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler: N. P
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS TEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1 B84-D0.5	12/19/17	1015	G	S	1			X	X		
AOC1 B84-D1.5	12/19/17	1020	G	S	1						Hold
AOC1 B84-D2.5	12/19/17	1025	G	S	1						Hold
AOC1 B86-D0.5	12/19/17	1030	G	S	1			X	X		~~Hold~~ MS
AOC1 B86-D1.5	12/19/17	1035	G	S	1						Hold
AOC1 B86-D2.5	12/19/17	1040	G	S	1			X			Hold
AOC1 B89-D0.5	12/19/17	1045	G	S	1			X	X		
AOC1 B89-D1.5	12/19/17	1050	G	S	1						Hold
AOC1 B89-D2.5	12/19/17	1055	G	S	1						Hold
AOC1 B88-D0.5	12/19/17	1100	G	S	1			X	X		
AOC1 B88-D1.5	12/19/17	1105	G	S	1						Hold
AOC1 B88-D2.5	12/19/17	1110	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	DCS	12/19/17 1555
Relinquished by:	DCS	12/19/17 1555	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1855

Page 27 of 45

12/13/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181128

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Riley	Site Contact: N. Tadsen	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	5 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below 5td			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans	Sample Specific Notes:
AOC3-B1-D0.5	12/19/17	1115	G	S	1						X	X	
AOC3-B1-D1.5	12/19/17	1120	G	S	1								Hold
AOC3-B1-D2.5	12/19/17	1125	G	S	1								Hold
AOC3-B1-D0.5-Dup	12/19/17	1115	G	S	1						X	X	
AOC1-B85-D0.5	12/19/17	1130	G	S	1			X	X				
AOC1-B85-D1.5	12/19/17	1135	G	S	1								Hold
AOC1-B85-D2.5	12/19/17	1140	G	S	1								Hold
AOC1-B87-D0.5	12/19/17	1145	G	S	1			X	X				
AOC1-B87-D1.5	12/19/17	1150	G	S	1								Hold
AOC1-B87-D2.5	12/19/17	1155	G	S	1								Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	DCS	12/19/17 3:45pm
Relinquished by:	DCS	12/19/17 6:55pm	Received by:		
Relinquished by:			Received in Laboratory by:	TAI	12/19/17 1855

12/3/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181127

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: P. Mata	Carrier:	6 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below 5th			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOC	Sample Specific Notes:
AOC1-B82-D0.5	12/19/17	1200	G	S	1			X	X		
AOC1-B82-D1.5	12/19/17	1205	G	S	1						Hold
AOC1-B82-D2.5	12/19/17	1210	G	S	1						Hold
AOC1-B79-D0.5	12/19/17	1215	G	S	1			X	X		
AOC1-B79-D1.5	12/19/17	1220	G	S	1						Hold
AOC1-B79-D2.5	12/19/17	1225	G	S	1						Hold
AOC1-B80-D0.5	12/19/17	1230	G	S	1			X	X		
AOC1-B80-D1.5	12/19/17	1235	G	S	1						Hold
AOC1-B80-D2.5	12/19/17	1240	G	S	1						Hold
AOC1-B83-D0.5	12/19/17	1245	G	S	1			X	X		
AOC1-B83-D1.5	12/19/17	1250	G	S	1						Hold
AOC1-B83-D2.5	12/19/17	1255	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:35 PM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:00 PM			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181126

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	7 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead																									Sample Specific Notes:
AOC1-B81-D0.5	12/19/17	1300	G	S	1			X	X	X																								
AOC1-B81-D1.5	12/19/17	1305	G	S	1																													Hold
AOC1-B81-D2.5	12/19/17	1310	G	S	1																													Hold
AOC1-B78-D0.5	12/19/17	1315	G	S	1			X	X																									
AOC1-B78-D1.5	12/19/17	1320	G	S	1																													Hold
AOC1-B78-D2.5	12/19/17	1325	G	S	1																													Hold
AOC1-B77-D0.5	12/19/17	1330	G	S	1			X	X																									
AOC1-B77-D1.5	12/19/17	1335	G	S	1																													Hold
AOC1-B77-D2.5	12/19/17	1340	G	S	1																													Hold
AOC1-B76-D0.5	12/19/17	1345	G	S	1			X	X																									
AOC1-B76-D1.5	12/19/17	1350	G	S	1																													
AOC1-B76-D2.5	12/19/17	1355	G	S	1																													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12/19/17	Received by:	Company: DCS	Date/Time: 12/19/17 2:05 pm
Relinquished by:	Company: DCS	Date/Time: 12/19/17 6:55 pm	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/19/17 1855

12/3/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: L. Mata	Carrier:	8 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1-B22-D0.5	12/19/17	1400	G	S	1			X	X		
AOC1-B22-D1.5	12/19/17	1405	G	S	1						Hold
AOC1-B22-D2.5	12/19/17	1410	G	S	1						Hold
AOC1-B19-D0.5	12/19/17	1415	G	S	1			X	X		
AOC1-B19-D1.5	12/19/17	1420	G	S	1						Hold
AOC1-B19-D2.5	12/19/17	1425	G	S	1						Hold
AOC1-B20-D0.5	12/19/17	1430	G	S	1			X	X		
AOC1-B20-D1.5	12/19/17	1435	G	S	1						Hold
AOC1-B20-D2.5	12/19/17	1440	G	S	1						Hold
AOC1-B15-D0.5	12/19/17	1445	G	S	1			X	X		
AOC1-B15-D1.5	12/19/17	1450	G	S	1						Hold
AOC1-B15-D2.5	12/19/17	1455	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:55PM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:55p			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-117550.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: patty.mata@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 440-198799-1
Address: 880 Riverside Parkway, ,	Due Date Requested: 1/8/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: LAUSD Reseda H.S., CA	Project #: 44019322			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290/8290_P_Sep Dioxins/Furans-17 Isomers List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
E121917 (440-198799-12)	12/19/17	15:00 Pacific		Water			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	*Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)*
Unconfirmed	☐ *Return To Client* ☐ *Disposal By Lab* ☐ *Archive For* _____ *Months*
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 3.3

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198799-1

Login Number: 198799

List Source: TestAmerica Irvine

List Number: 1

Creator: Avila, Stephanie 1

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sam

440-198799 Field Sheet

Job:_____

Tracking # 4176 2737 0872

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations. File in the job folder with the COC.

Notes:_____

Therm. ID: AK-2 / AK-3 / HACCP / Other_____

Ice X Wet X Dry_____ Other_____

Cooler Custody Seal: -

Sample Custody Seal: -

Cooler ID: -

Temp: Observed 3.3

Corrected: -

From: Temp Blank ☐ Sample ☒

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	☒
CoC is complete w/o discrepancies?	☒	☐	☐
Samples received within holding time?	☒	☐	☐
Sample preservatives verified?	☐	☐	☒
Cooler compromised/tampered with?	☐	☒	☐
Samples compromised/tampered with?	☐	☒	☐
COC and Samples w/o discrepancies?	☒	☐	☐
Sample containers have legible labels?	☒	☐	☐
Containers are not broken or leaking?	☒	☐	☐
Sample date/times are provided.	☒	☐	☐
Appropriate containers are used?	☒	☐	☐
Sample bottles are completely filled?	☒	☐	☐
Zero headspace?*	☐	☐	☒
Multiphasic samples are not present?	☒	☐	☐

Initials: DH Date: 12/22/17

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Sa

440-198799 Field Sheet

Tracking # 4176 2737 1879

Use this form to record Sample Custody Seal, Cooler Custody Seal, Temperature & corrected Temperature & other observations.
File in the job folder with the COC.

Notes: did not make temp. not enough ice. MG 12/28/17

half melted

clear jars

Therm. ID: AK-2 / AK-3 / HACCP /Other_____

Ice ✓ Wet ✓ Dry_____ Other_____

Cooler Custody Seal: seal

Sample Custody Seal: —

Cooler ID: /

Temp: Observed 10.5

Corrected: /

From: Temp Blank ☐ Sample ☐

NCM Filed: Yes ☐ No ☐

	Yes	No	NA
Perchlorate has headspace?	☐	☐	✓
CoC is complete w/o discrepancies?	✓	☐	☐
Samples received within holding time?	✓	☐	☐
Sample preservatives verified?	☐	☐	✓
Cooler compromised/tampered with?	☐	✓	☐
Samples compromised/tampered with?	☐	✓	☐
COC and Samples w/o discrepancies?	✓	☐	☐
Sample containers have legible labels?	✓	☐	☐
Containers are not broken or leaking?	✓	☐	☐
Sample date/times are provided.	✓	☐	☐
Appropriate containers are used?	✓	☐	☐
Sample bottles are completely filled?	✓	☐	☐
Zero headspace?*	☐	☐	✓
Multiphasic samples are not present?	✓	☐	☐

Initials: MG Date: 12/28/17

*Containers requiring zero headspace have no headspace, or bubble < 6 mm (1/4")

17A

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198799-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/17/2018 10:12:08 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

Links

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 8
Lab Chronicle 9
QC Sample Results 10
QC Association Summary 14
Definitions/Glossary 15
Certification Summary 16
Chain of Custody 17
Receipt Checklists 26
Isotope Dilution Summary 29

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198799-12	E121917	Water	12/19/17 15:00	12/19/17 18:55
440-198799-49	AOC3-B1-D0.5	Solid	12/19/17 11:15	12/19/17 18:55
440-198799-52	AOC3-B1-D0.5-DUP	Solid	12/19/17 11:15	12/19/17 18:55

Job ID: 440-198799-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198799-2

Comments
No additional comments.

Receipt
The samples were received on 12/19/2017 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.7º C and 5.9º C.

Dioxin
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Dioxin Prep
Method(s) 8290, HRMS-Sox: Due to the matrix, the initial volume used for the following samples deviated from the standard procedure: AOC3-B1-D0.5 (440-198799-49) and AOC3-B1-D0.5-DUP (440-198799-52). The reporting limits (RLs) have been adjusted proportionately.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Client Sample ID: E121917 — Lab Sample ID: 440-198799-12

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
1,2,3,4,7,8-HxCDD	1.6	J B	50	0.15	pg/L	1		8290	Total/NA
1,2,3,6,7,8-HxCDD	0.33	J q	50	0.13	pg/L	1		8290	Total/NA
1,2,3,7,8,9-HxCDD	0.45	J q	50	0.12	pg/L	1		8290	Total/NA
1,2,3,6,7,8-HxCDF	0.29	J q	50	0.19	pg/L	1		8290	Total/NA
1,2,3,7,8,9-HxCDF	0.50	J B	50	0.21	pg/L	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDD	1.0	J B	50	0.092	pg/L	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDF	0.64	J B	50	0.15	pg/L	1		8290	Total/NA
OCDD	3.0	J B	100	0.10	pg/L	1		8290	Total/NA
OCDF	1.2	J B	100	0.13	pg/L	1		8290	Total/NA

Client Sample ID: AOC3-B1-D0.5 — Lab Sample ID: 440-198799-49

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.53	J	5.1	0.49	pg/g	1		8290	Total/NA
1,2,3,4,7,8-HxCDD	0.84	J B	25	0.33	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDD	1.2	J	25	0.30	pg/g	1		8290	Total/NA
1,2,3,7,8,9-HxCDD	0.96	J	25	0.29	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDF	4.4	J	25	0.70	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDD	26	B	25	0.43	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDF	5.4	J B q	25	0.47	pg/g	1		8290	Total/NA
OCDD	280	B	51	0.38	pg/g	1		8290	Total/NA
OCDF	15	J B	51	0.30	pg/g	1		8290	Total/NA

Client Sample ID: AOC3-B1-D0.5-DUP — Lab Sample ID: 440-198799-52

Analyte	Result	Qualifier	RL	EDL	Unit	Dil Fac	D	Method	Prep Type
2,3,7,8-TCDF	0.54	J	5.1	0.40	pg/g	1		8290	Total/NA
1,2,3,4,7,8-HxCDD	0.89	J B	25	0.36	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDD	1.0	J	25	0.33	pg/g	1		8290	Total/NA
1,2,3,6,7,8-HxCDF	3.9	J	25	0.75	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDD	25	B	25	0.53	pg/g	1		8290	Total/NA
1,2,3,4,6,7,8-HpCDF	5.0	J B	25	0.54	pg/g	1		8290	Total/NA
OCDD	250	B	51	0.53	pg/g	1		8290	Total/NA
OCDF	13	J B	51	0.37	pg/g	1		8290	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: E121917

Lab Sample ID: 440-198799-12

Date Collected: 12/19/17 15:00

Matrix: Water

Date Received: 12/19/17 18:55

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.16	pg/L		01/09/18 07:55	01/11/18 15:04	1
2,3,7,8-TCDF	ND		10	0.12	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,7,8-PeCDD	ND		50	0.21	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,7,8-PeCDF	ND		50	0.17	pg/L		01/09/18 07:55	01/11/18 15:04	1
2,3,4,7,8-PeCDF	ND		50	0.17	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,4,7,8-HxCDD	**1.6**	**J B**	50	0.15	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,6,7,8-HxCDD	**0.33**	**J q**	50	0.13	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,7,8,9-HxCDD	**0.45**	**J q**	50	0.12	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,4,7,8-HxCDF	ND		50	0.21	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,6,7,8-HxCDF	**0.29**	**J q**	50	0.19	pg/L		01/09/18 07:55	01/11/18 15:04	1
2,3,4,6,7,8-HxCDF	ND		50	0.20	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,7,8,9-HxCDF	**0.50**	**J B**	50	0.21	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,4,6,7,8-HpCDD	**1.0**	**J B**	50	0.092	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,4,6,7,8-HpCDF	**0.64**	**J B**	50	0.15	pg/L		01/09/18 07:55	01/11/18 15:04	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.18	pg/L		01/09/18 07:55	01/11/18 15:04	1
OCDD	**3.0**	**J B**	100	0.10	pg/L		01/09/18 07:55	01/11/18 15:04	1
OCDF	**1.2**	**J B**	100	0.13	pg/L		01/09/18 07:55	01/11/18 15:04	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*87*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-2,3,7,8-TCDF	*90*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,7,8-PeCDD	*100*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,7,8-PeCDF	*91*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,4,7,8-HxCDF	*99*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*99*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*92*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*
13C-OCDD	*105*		*40 - 135*	*01/09/18 07:55*	*01/11/18 15:04*	*1*

Client Sample ID: AOC3-B1-D0.5

Lab Sample ID: 440-198799-49

Date Collected: 12/19/17 11:15

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.1	0.25	pg/g		01/10/18 10:49	01/15/18 13:53	1
2,3,7,8-TCDF	**0.53**	**J**	5.1	0.49	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,7,8-PeCDD	ND		25	0.65	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,7,8-PeCDF	ND		25	0.69	pg/g		01/10/18 10:49	01/15/18 13:53	1
2,3,4,7,8-PeCDF	ND		25	0.70	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,4,7,8-HxCDD	**0.84**	**J B**	25	0.33	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,6,7,8-HxCDD	**1.2**	**J**	25	0.30	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,7,8,9-HxCDD	**0.96**	**J**	25	0.29	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,4,7,8-HxCDF	ND		25	0.73	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,6,7,8-HxCDF	**4.4**	**J**	25	0.70	pg/g		01/10/18 10:49	01/15/18 13:53	1
2,3,4,6,7,8-HxCDF	ND		25	0.72	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,7,8,9-HxCDF	ND		25	0.79	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,4,6,7,8-HpCDD	**26**	**B**	25	0.43	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,4,6,7,8-HpCDF	**5.4**	**J B q**	25	0.47	pg/g		01/10/18 10:49	01/15/18 13:53	1
1,2,3,4,7,8,9-HpCDF	ND		25	0.56	pg/g		01/10/18 10:49	01/15/18 13:53	1

Client Sample ID: AOC3-B1-D0.5

Lab Sample ID: 440-198799-49

Date Collected: 12/19/17 11:15

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
OCDD	**280**	**B**	51	0.38	pg/g		01/10/18 10:49	01/15/18 13:53	1
OCDF	**15**	**J B**	51	0.30	pg/g		01/10/18 10:49	01/15/18 13:53	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*73*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-2,3,7,8-TCDF	*70*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,7,8-PeCDD	*71*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,7,8-PeCDF	*74*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,6,7,8-HxCDD	*71*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,4,7,8-HxCDF	*63*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*65*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*67*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*
13C-OCDD	*64*		*40 - 135*	*01/10/18 10:49*	*01/15/18 13:53*	*1*

Client Sample ID: AOC3-B1-D0.5-DUP

Lab Sample ID: 440-198799-52

Date Collected: 12/19/17 11:15

Matrix: Solid

Date Received: 12/19/17 18:55

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Analyte	Result	Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		5.1	0.23	pg/g		01/10/18 10:54	01/15/18 14:39	1
2,3,7,8-TCDF	**0.54**	**J**	5.1	0.40	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,7,8-PeCDD	ND		25	0.57	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,7,8-PeCDF	ND		25	0.66	pg/g		01/10/18 10:54	01/15/18 14:39	1
2,3,4,7,8-PeCDF	ND		25	0.67	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,4,7,8-HxCDD	**0.89**	**J B**	25	0.36	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,6,7,8-HxCDD	**1.0**	**J**	25	0.33	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,7,8,9-HxCDD	ND		25	0.32	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,4,7,8-HxCDF	ND		25	0.79	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,6,7,8-HxCDF	**3.9**	**J**	25	0.75	pg/g		01/10/18 10:54	01/15/18 14:39	1
2,3,4,6,7,8-HxCDF	ND		25	0.77	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,7,8,9-HxCDF	ND		25	0.85	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,4,6,7,8-HpCDD	**25**	**B**	25	0.53	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,4,6,7,8-HpCDF	**5.0**	**J B**	25	0.54	pg/g		01/10/18 10:54	01/15/18 14:39	1
1,2,3,4,7,8,9-HpCDF	ND		25	0.64	pg/g		01/10/18 10:54	01/15/18 14:39	1
OCDD	**250**	**B**	51	0.53	pg/g		01/10/18 10:54	01/15/18 14:39	1
OCDF	**13**	**J B**	51	0.37	pg/g		01/10/18 10:54	01/15/18 14:39	1

Isotope Dilution	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*71*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-2,3,7,8-TCDF	*69*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,6,7,8-HxCDD	*70*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,4,7,8-HxCDF	*63*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*61*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*63*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*
13C-OCDD	*60*		*40 - 135*	*01/10/18 10:54*	*01/15/18 14:39*	*1*

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Method	Method Description	Protocol	Laboratory
8290	Dioxins and Furans (HRGC/HRMS)	SW846	TAL SAC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Client Sample ID: E121917

Lab Sample ID: 440-198799-12

Date Collected: 12/19/17 15:00

Matrix: Water

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1003.5 mL	20.0 uL	203119	01/09/18 07:55	DXD	TAL SAC
Total/NA	Analysis	8290		1			203541	01/11/18 15:04	AS	TAL SAC

Client Sample ID: AOC3-B1-D0.5

Lab Sample ID: 440-198799-49

Date Collected: 12/19/17 11:15

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1.98 g	20.0 uL	203363	01/10/18 10:49	DXD	TAL SAC
Total/NA	Analysis	8290		1			204002	01/15/18 13:53	ALM	TAL SAC

Client Sample ID: AOC3-B1-D0.5-DUP

Lab Sample ID: 440-198799-52

Date Collected: 12/19/17 11:15

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	8290			1.98 g	20.0 uL	203363	01/10/18 10:54	DXD	TAL SAC
Total/NA	Analysis	8290		1			204002	01/15/18 14:39	ALM	TAL SAC

Laboratory References:

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Lab Sample ID: MB 320-203119/1-A
Matrix: Water
Analysis Batch: 203541

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203119

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		10	0.22	pg/L		01/09/18 07:55	01/11/18 12:39	1
2,3,7,8-TCDF	ND		10	0.17	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,7,8-PeCDD	ND		50	0.22	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,7,8-PeCDF	ND		50	0.23	pg/L		01/09/18 07:55	01/11/18 12:39	1
2,3,4,7,8-PeCDF	ND		50	0.24	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,4,7,8-HxCDD	2.23	J	50	0.24	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,6,7,8-HxCDD	ND		50	0.20	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,7,8,9-HxCDD	ND		50	0.20	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,4,7,8-HxCDF	ND		50	0.27	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,6,7,8-HxCDF	ND		50	0.24	pg/L		01/09/18 07:55	01/11/18 12:39	1
2,3,4,6,7,8-HxCDF	ND		50	0.26	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,7,8,9-HxCDF	0.473	J q	50	0.27	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,4,6,7,8-HpCDD	0.694	J q	50	0.14	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,4,6,7,8-HpCDF	0.442	J q	50	0.17	pg/L		01/09/18 07:55	01/11/18 12:39	1
1,2,3,4,7,8,9-HpCDF	ND		50	0.20	pg/L		01/09/18 07:55	01/11/18 12:39	1
OCDD	2.35	J	100	0.14	pg/L		01/09/18 07:55	01/11/18 12:39	1
OCDF	1.00	J	100	0.22	pg/L		01/09/18 07:55	01/11/18 12:39	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*88*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-2,3,7,8-TCDF	*89*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,7,8-PeCDD	*91*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,7,8-PeCDF	*88*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,6,7,8-HxCDD	*86*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,4,7,8-HxCDF	*97*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*87*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*
13C-OCDD	*99*		*40 - 135*	*01/09/18 07:55*	*01/11/18 12:39*	*1*

Lab Sample ID: LCS 320-203119/2-A
Matrix: Water
Analysis Batch: 203541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	200	198		pg/L		99	72 - 128
2,3,7,8-TCDF	200	201		pg/L		101	67 - 135
1,2,3,7,8-PeCDD	1000	1010		pg/L		101	71 - 135
1,2,3,7,8-PeCDF	1000	1030		pg/L		103	70 - 133
2,3,4,7,8-PeCDF	1000	1040		pg/L		104	69 - 135
1,2,3,4,7,8-HxCDD	1000	1070		pg/L		107	67 - 130
1,2,3,6,7,8-HxCDD	1000	1020		pg/L		102	61 - 144
1,2,3,7,8,9-HxCDD	1000	1080		pg/L		108	61 - 140
1,2,3,4,7,8-HxCDF	1000	985		pg/L		98	69 - 140
1,2,3,6,7,8-HxCDF	1000	939		pg/L		94	62 - 155
2,3,4,6,7,8-HxCDF	1000	956		pg/L		96	70 - 146
1,2,3,7,8,9-HxCDF	1000	961		pg/L		96	71 - 142
1,2,3,4,6,7,8-HpCDD	1000	1030		pg/L		103	71 - 134
1,2,3,4,6,7,8-HpCDF	1000	1070		pg/L		107	68 - 137

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-203119/2-A
Matrix: Water
Analysis Batch: 203541

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203119

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3,4,7,8,9-HpCDF	1000	1100		pg/L		110	74 - 134
OCDD	2000	1910		pg/L		96	72 - 134
OCDF	2000	1830		pg/L		91	65 - 143

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*87*		*40 - 135*
13C-2,3,7,8-TCDF	*87*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*88*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*89*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*83*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*93*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*95*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*
13C-OCDD	*101*		*40 - 135*

Lab Sample ID: LCSD 320-203119/3-A
Matrix: Water
Analysis Batch: 203541

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203119

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD	200	197		pg/L		99	72 - 128	1	20
2,3,7,8-TCDF	200	207		pg/L		104	67 - 135	3	20
1,2,3,7,8-PeCDD	1000	1060		pg/L		106	71 - 135	4	20
1,2,3,7,8-PeCDF	1000	1040		pg/L		104	70 - 133	0	20
2,3,4,7,8-PeCDF	1000	1060		pg/L		106	69 - 135	2	20
1,2,3,4,7,8-HxCDD	1000	1110		pg/L		111	67 - 130	3	20
1,2,3,6,7,8-HxCDD	1000	1020		pg/L		102	61 - 144	0	20
1,2,3,7,8,9-HxCDD	1000	1120		pg/L		112	61 - 140	4	20
1,2,3,4,7,8-HxCDF	1000	1030		pg/L		103	69 - 140	5	20
1,2,3,6,7,8-HxCDF	1000	941		pg/L		94	62 - 155	0	20
2,3,4,6,7,8-HxCDF	1000	921		pg/L		92	70 - 146	4	20
1,2,3,7,8,9-HxCDF	1000	951		pg/L		95	71 - 142	1	20
1,2,3,4,6,7,8-HpCDD	1000	1050		pg/L		105	71 - 134	2	20
1,2,3,4,6,7,8-HpCDF	1000	1080		pg/L		108	68 - 137	1	20
1,2,3,4,7,8,9-HpCDF	1000	1130		pg/L		113	74 - 134	3	20
OCDD	2000	2060		pg/L		103	72 - 134	8	20
OCDF	2000	1950		pg/L		97	65 - 143	6	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*87*		*40 - 135*
13C-2,3,7,8-TCDF	*87*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*96*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*88*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*82*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*96*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*96*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*88*		*40 - 135*
13C-OCDD	*101*		*40 - 135*

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: MB 320-203363/1-A
Matrix: Solid
Analysis Batch: 203747

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 203363

Analyte	MB Result	MB Qualifier	RL	EDL	Unit	D	Prepared	Analyzed	Dil Fac
2,3,7,8-TCDD	ND		1.0	0.044	pg/g		01/10/18 10:49	01/12/18 18:36	1
2,3,7,8-TCDF	ND		1.0	0.029	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,7,8-PeCDD	ND		5.0	0.090	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,7,8-PeCDF	ND		5.0	0.047	pg/g		01/10/18 10:49	01/12/18 18:36	1
2,3,4,7,8-PeCDF	ND		5.0	0.049	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,4,7,8-HxCDD	0.179	J q	5.0	0.050	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,6,7,8-HxCDD	ND		5.0	0.042	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,7,8,9-HxCDD	ND		5.0	0.041	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,4,7,8-HxCDF	ND		5.0	0.10	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,6,7,8-HxCDF	ND		5.0	0.088	pg/g		01/10/18 10:49	01/12/18 18:36	1
2,3,4,6,7,8-HxCDF	ND		5.0	0.096	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,7,8,9-HxCDF	ND		5.0	0.10	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,4,6,7,8-HpCDD	0.358	J q	5.0	0.033	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,4,6,7,8-HpCDF	0.0977	J q	5.0	0.035	pg/g		01/10/18 10:49	01/12/18 18:36	1
1,2,3,4,7,8,9-HpCDF	0.117	J	5.0	0.042	pg/g		01/10/18 10:49	01/12/18 18:36	1
OCDD	5.49	J	10	0.050	pg/g		01/10/18 10:49	01/12/18 18:36	1
OCDF	0.780	J	10	0.045	pg/g		01/10/18 10:49	01/12/18 18:36	1

Isotope Dilution	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
13C-2,3,7,8-TCDD	*62*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-2,3,7,8-TCDF	*64*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,7,8-PeCDD	*54*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,7,8-PeCDF	*62*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,6,7,8-HxCDD	*67*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,4,7,8-HxCDF	*68*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,4,6,7,8-HpCDD	*66*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-1,2,3,4,6,7,8-HpCDF	*70*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*
13C-OCDD	*72*		*40 - 135*	*01/10/18 10:49*	*01/12/18 18:36*	*1*

Lab Sample ID: LCS 320-203363/2-A
Matrix: Solid
Analysis Batch: 203747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
2,3,7,8-TCDD	20.0	20.3		pg/g		102	60 - 138
2,3,7,8-TCDF	20.0	20.1		pg/g		100	56 - 158
1,2,3,7,8-PeCDD	100	109		pg/g		109	70 - 122
1,2,3,7,8-PeCDF	100	104		pg/g		104	69 - 134
2,3,4,7,8-PeCDF	100	103		pg/g		103	70 - 131
1,2,3,4,7,8-HxCDD	100	104		pg/g		104	60 - 138
1,2,3,6,7,8-HxCDD	100	99.4		pg/g		99	68 - 136
1,2,3,7,8,9-HxCDD	100	107		pg/g		107	68 - 138
1,2,3,4,7,8-HxCDF	100	103		pg/g		103	74 - 128
1,2,3,6,7,8-HxCDF	100	98.2		pg/g		98	67 - 140
2,3,4,6,7,8-HxCDF	100	98.3		pg/g		98	71 - 137
1,2,3,7,8,9-HxCDF	100	101		pg/g		101	72 - 134
1,2,3,4,6,7,8-HpCDD	100	109		pg/g		109	71 - 128
1,2,3,4,6,7,8-HpCDF	100	104		pg/g		104	71 - 134

Method: 8290 - Dioxins and Furans (HRGC/HRMS) (Continued)

Lab Sample ID: LCS 320-203363/2-A
Matrix: Solid
Analysis Batch: 203747

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 203363

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
1,2,3,4,7,8,9-HpCDF			100	95.7		pg/g		96	68 - 129		
OCDD			200	204		pg/g		102	70 - 128		
OCDF			200	192		pg/g		96	63 - 141		

Isotope Dilution	*LCS %Recovery*	*LCS Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*78*		*40 - 135*
13C-2,3,7,8-TCDF	*82*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*73*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*80*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*84*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*90*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*82*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*84*		*40 - 135*
13C-OCDD	*82*		*40 - 135*

Lab Sample ID: LCSD 320-203363/3-A
Matrix: Solid
Analysis Batch: 203747

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 203363

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
2,3,7,8-TCDD			20.0	20.3		pg/g		102	60 - 138	0	20
2,3,7,8-TCDF			20.0	20.0		pg/g		100	56 - 158	1	20
1,2,3,7,8-PeCDD			100	109		pg/g		109	70 - 122	0	20
1,2,3,7,8-PeCDF			100	104		pg/g		104	69 - 134	1	20
2,3,4,7,8-PeCDF			100	106		pg/g		106	70 - 131	3	20
1,2,3,4,7,8-HxCDD			100	104		pg/g		104	60 - 138	1	20
1,2,3,6,7,8-HxCDD			100	101		pg/g		101	68 - 136	2	20
1,2,3,7,8,9-HxCDD			100	105		pg/g		105	68 - 138	2	20
1,2,3,4,7,8-HxCDF			100	102		pg/g		102	74 - 128	1	20
1,2,3,6,7,8-HxCDF			100	101		pg/g		101	67 - 140	3	20
2,3,4,6,7,8-HxCDF			100	105		pg/g		105	71 - 137	6	20
1,2,3,7,8,9-HxCDF			100	106		pg/g		106	72 - 134	4	20
1,2,3,4,6,7,8-HpCDD			100	110		pg/g		110	71 - 128	1	20
1,2,3,4,6,7,8-HpCDF			100	105		pg/g		105	71 - 134	1	20
1,2,3,4,7,8,9-HpCDF			100	98.6		pg/g		99	68 - 129	3	20
OCDD			200	207		pg/g		103	70 - 128	1	20
OCDF			200	197		pg/g		98	63 - 141	2	20

Isotope Dilution	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
13C-2,3,7,8-TCDD	*71*		*40 - 135*
13C-2,3,7,8-TCDF	*74*		*40 - 135*
13C-1,2,3,7,8-PeCDD	*67*		*40 - 135*
13C-1,2,3,7,8-PeCDF	*71*		*40 - 135*
13C-1,2,3,6,7,8-HxCDD	*77*		*40 - 135*
13C-1,2,3,4,7,8-HxCDF	*76*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDD	*70*		*40 - 135*
13C-1,2,3,4,6,7,8-HpCDF	*73*		*40 - 135*
13C-OCDD	*75*		*40 - 135*

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Specialty Organics

Prep Batch: 203119

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total/NA	Water	8290	
MB 320-203119/1-A	Method Blank	Total/NA	Water	8290	
LCS 320-203119/2-A	Lab Control Sample	Total/NA	Water	8290	
LCSD 320-203119/3-A	Lab Control Sample Dup	Total/NA	Water	8290	

Prep Batch: 203363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-49	AOC3-B1-D0.5	Total/NA	Solid	8290	
440-198799-52	AOC3-B1-D0.5-DUP	Total/NA	Solid	8290	
MB 320-203363/1-A	Method Blank	Total/NA	Solid	8290	
LCS 320-203363/2-A	Lab Control Sample	Total/NA	Solid	8290	
LCSD 320-203363/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	

Analysis Batch: 203541

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-12	E121917	Total/NA	Water	8290	203119
MB 320-203119/1-A	Method Blank	Total/NA	Water	8290	203119
LCS 320-203119/2-A	Lab Control Sample	Total/NA	Water	8290	203119
LCSD 320-203119/3-A	Lab Control Sample Dup	Total/NA	Water	8290	203119

Analysis Batch: 203747

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 320-203363/1-A	Method Blank	Total/NA	Solid	8290	203363
LCS 320-203363/2-A	Lab Control Sample	Total/NA	Solid	8290	203363
LCSD 320-203363/3-A	Lab Control Sample Dup	Total/NA	Solid	8290	203363

Analysis Batch: 204002

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-49	AOC3-B1-D0.5	Total/NA	Solid	8290	203363
440-198799-52	AOC3-B1-D0.5-DUP	Total/NA	Solid	8290	203363

Qualifiers

Dioxin

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
q	The reported result is the estimated maximum possible concentration of this analyte, quantitated using the theoretical ion ratio. The measured ion ratio does not meet qualitative identification criteria and indicates a possible interference.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

Laboratory: TestAmerica Sacramento

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska (UST)	State Program	10	UST-055	01-31-18
Arizona	State Program	9	AZ0708	08-11-18
Arkansas DEQ	State Program	6	88-0691	06-17-18
California	State Program	9	2897	01-31-18
Colorado	State Program	8	CA00044	08-31-18
Connecticut	State Program	1	PH-0691	06-30-19
Florida	NELAP	4	E87570	06-30-18
Georgia	State Program	4	N/A	01-28-19
Hawaii	State Program	9	N/A	01-29-18
Illinois	NELAP	5	200060	03-17-18
Kansas	NELAP	7	E-10375	12-31-17 *
L-A-B	DoD ELAP		L2468	01-20-18
Louisiana	NELAP	6	30612	06-30-18
Maine	State Program	1	CA0004	04-18-18
Michigan	State Program	5	9947	01-31-18
Nevada	State Program	9	CA00044	07-31-18
New Hampshire	NELAP	1	2997	04-18-18
New Jersey	NELAP	2	CA005	06-30-18
New York	NELAP	2	11666	04-01-18
Oregon	NELAP	10	4040	01-29-20
Pennsylvania	NELAP	3	68-01272	03-31-18
Texas	NELAP	6	T104704399	05-31-18
US Fish & Wildlife	Federal		LE148388-0	07-31-18
USDA	Federal		P330-11-00436	12-30-17 *
USEPA UCMR	Federal	1	CA00044	11-06-18
Utah	NELAP	8	CA00044	02-28-18
Virginia	NELAP	3	460278	03-14-18
Washington	State Program	10	C581	05-05-18
Wyoming	State Program	8	8TMS-L	01-28-19

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181118

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Patti Nemeth	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 9 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nemeth
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rosed HS PEA	☐ 1 week			
Site: Rosedale High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Dioxin	Furan	Sample Specific Notes:
AOC1-B48-D0.5	12/19/17	0730	G	S	1			X	X	X			
AOC1-B48-D1.5	12/19/17	0735	G	S	1								Hold
AOC1-B48-D2.5	12/19/17	0740	G	S	1								Hold
AOC1-B48-D0.5-Dup	12/19/17	0730	G	S	1			X	X	X			
AOC1-B57-D0.5	12/19/17	0745	G	S	1			X	X	X			
AOC1-B57-D1.5	12/19/17	0750	G	S	1								Hold
AOC1-B57-D2.5	12/19/17	0755	G	S	1								Hold
AOC1-B57-D0.5-Dup	12/19/17	0745	G	S	1			X	X	X			
AOC1-B63-D0.5	12/19/17	0800	G	S	1			X	X				~~Hold~~ NC
AOC1-B63-D1.5	12/19/17	0805	G	S	1								Hold
AOC1-B63-D2.5	12/19/17	0810	G	S	1								Hold
E121917	12/19/17	1500	G	S	7			X	X	X	X		

440-198799 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.9 5.7
6.1 5.9

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 6.1 Corr'd: 5.9 | Therm ID No.: 1284

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by: Jason Fowler	OCS	12/19/17 3:55 pm
Relinquished by: Jason Fowler	OCS	12/19/17 3:55	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1655

Page 17 of 20

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Tomlson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Kathy Mata	Carrier:	2 of 9 COCs
Address: 100 N Walnut St	Analysis Turnaround Time			Sampler: NT
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B66-D0.5	12/19/17	0815	G	S	1			X	X	
AOC1-B66-D1.5	12/19/17	0820	G	S	1					Hold
AOC1-B66-D2.5	12/19/17	0825	G	S	1					Hold
AOC1-B69-D0.5	12/19/17	0830	G	S	1			X	X	
AOC1-B69-D1.5	12/19/17	0835	G	S	1					Hold
AOC1-B69-D2.5	12/19/17	0840	G	S	1					Hold
AOC1-B68-D0.5	12/19/17	0845	G	S	1			X	X	
AOC1-B68-D1.5	12/19/17	0850	G	S	1					Hold
AOC1-B68-D2.5	12/19/17	0855	G	S	1					Hold
AOC1-B71-D0.5	12/19/17	0900	G	S	1			X	X	
AOC1-B71-D1.5	12/19/17	0905	G	S	1					Hold
AOC1-B71-D2.5	12/19/17	0910	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 1535
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 1700			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

1/11/2018

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181121

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Joseph Kahs	Site Contact: N. Coulson	Date: 12/17/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: Patty Mata	Carrier: ~~FedEx~~	3 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below 5+1			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B72-00.5	12/19/17	0915	G	S	1			X	X	
AOC1-B72-01.5	12/19/17	0920	G	S	1					Hold
AOC1-B72-02.5	12/19/17	0925	G	S	1					Hold
AOC1-B73-00.5	12/19/17	0930	G	S	1			X	X	
AOC1-B73-01.5	12/19/17	0935	G	S	1					Hold
AOC1-B73-02.5	12/19/17	0940	G	S	1					Hold
AOC1-B74-00.5	12/19/17	0945	G	S	1			X	X	
AOC1-B74-01.5	12/19/17	0950	G	S	1					Hold
AOC1-B74-02.5	12/19/17	0955	G	S	1					Hold
AOC1-B75-00.5	12/19/17	1000	G	S	1			X	X	
AOC1-B75-01.5	12/19/17	1005	G	S	1					Hold
AOC1-B75-02.5	12/19/17	1010	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:55 pm
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:55 pm			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAI	12/19/17 1855

Page 10 of 20

1/17/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181122

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N Poulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	4 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler: N. P
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS YEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1 B84-D0.5	12/19/17	1015	G	S	1			X	X		
AOC1 B84-D1.5	12/19/17	1020	G	S	1						Hold
AOC1 B84-D2.5	12/19/17	1025	G	S	1						Hold
AOC1 B86-D0.5	12/19/17	1030	G	S	1			X	X		~~Hold~~ MS
AOC1 B86-D1.5	12/19/17	1035	G	S	1						Hold
AOC1 B86-D2.5	12/19/17	1040	G	S	1			X			Hold
AOC1 B89-D0.5	12/19/17	1045	G	S	1			X	X		
AOC1 B89-D1.5	12/19/17	1050	G	S	1						Hold
AOC1 B89-D2.5	12/19/17	1055	G	S	1						Hold
AOC1 B88-D0.5	12/19/17	1100	G	S	1			X	X		
AOC1 B88-D1.5	12/19/17	1105	G	S	1						Hold
AOC1 B88-D2.5	12/19/17	1110	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ | Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	OCS	12/19/17 8:55pm
Relinquished by:	OCS	12/19/17 8:55pm	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1855

Page 20 of 30

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181128

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Riley	Site Contact: N. Tadsen	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	5 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below 5td			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans	Sample Specific Notes:
AOC3-B1-D0.5	12/19/17	1115	G	S	1						X	X	
AOC3-B1-D1.5	12/19/17	1120	G	S	1								Hold
AOC3-B1-D2.5	12/19/17	1125	G	S	1								Hold
AOC3-B1-D0.5-Dup	12/19/17	1115	G	S	1						X	X	
AOC1-B85-D0.5	12/19/17	1130	G	S	1			X	X				
AOC1-B85-D1.5	12/19/17	1135	G	S	1								Hold
AOC1-B85-D2.5	12/19/17	1140	G	S	1								Hold
AOC1-B87-D0.5	12/19/17	1145	G	S	1			X	X				
AOC1-B87-D1.5	12/19/17	1150	G	S	1								Hold
AOC1-B87-D2.5	12/19/17	1155	G	S	1								Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	DCS	12/19/17 3:45pm
Relinquished by:	DCS	12/19/17 6:55pm	Received by:		
Relinquished by:			Received in Laboratory by:	TAI	12/19/17 1855

1/17/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181127

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: P. Mata	Carrier:	6 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 6266406133	TAT if different from Below 5th			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOC	Sample Specific Notes:
AOC1-B82-D0.5	12/19/17	1200	G	S	1			X	X		
AOC1-B82-D1.5	12/19/17	1205	G	S	1						Hold
AOC1-B82-D2.5	12/19/17	1210	G	S	1						Hold
AOC1-B79-D0.5	12/19/17	1215	G	S	1			X	X		
AOC1-B79-D1.5	12/19/17	1220	G	S	1						Hold
AOC1-B79-D2.5	12/19/17	1225	G	S	1						Hold
AOC1-B80-D0.5	12/19/17	1230	G	S	1			X	X		
AOC1-B80-D1.5	12/19/17	1235	G	S	1						Hold
AOC1-B80-D2.5	12/19/17	1240	G	S	1						Hold
AOC1-B83-D0.5	12/19/17	1245	G	S	1			X	X		
AOC1-B83-D1.5	12/19/17	1250	G	S	1						Hold
AOC1-B83-D2.5	12/19/17	1255	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Parsons	Date/Time: 12/19/17	Received by:	Company: DCS	Date/Time: 12/19/17 3:35 PM
Relinquished by:	Company: DCS	Date/Time: 12/19/17 6:00 PM	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181126

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	7 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | Arsenic | Lead | | |

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: L. Mata	Carrier:	8 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1-B22-D0.5	12/19/17	1400	G	S	1			X	X		
AOC1-B22-D1.5	12/19/17	1405	G	S	1						Hold
AOC1-B22-D2.5	12/19/17	1410	G	S	1						Hold
AOC1-B19-D0.5	12/19/17	1415	G	S	1			X	X		
AOC1-B19-D1.5	12/19/17	1420	G	S	1						Hold
AOC1-B19-D2.5	12/19/17	1425	G	S	1						Hold
AOC1-B20-D0.5	12/19/17	1430	G	S	1			X	X		
AOC1-B20-D1.5	12/19/17	1435	G	S	1						Hold
AOC1-B20-D2.5	12/19/17	1440	G	S	1						Hold
AOC1-B15-D0.5	12/19/17	1445	G	S	1			X	X		
AOC1-B15-D1.5	12/19/17	1450	G	S	1						Hold
AOC1-B15-D2.5	12/19/17	1455	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by:	OCS	12/19/17 3:55PM
Relinquished by:	OCS	12/19/17 6:45p	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1865

1/11/2018

TestAmerica Irvine
17461 Derian Ave Suite 100
Irvine, CA 92614-5817
Phone (949) 261-1022 Fax (949) 260-3297

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information (Sub Contract Lab)	Sampler:	Lab PM: Mata, Patty	Carrier Tracking No(s):	COC No: 440-117670.1
Client Contact: Shipping/Receiving	Phone:	E-Mail: patty.mata@testamericainc.com	State of Origin: California	Page: Page 1 of 1
Company: TestAmerica Laboratories, Inc.		Accreditations Required (See note):		Job #: 440-198799-2
Address: 880 Riverside Parkway, ,	Due Date Requested: 1/8/2018			
City: West Sacramento	TAT Requested (days):			
State, Zip: CA, 95605				
Phone: 916-373-5600(Tel) 916-372-1059(Fax)	PO #:			
Email:	WO #:			
Project Name: LAUSD Reseda H.S., CA	Project #: 44019322			
Site:	SSOW#:			

Analysis Requested

Preservation Codes:

A - HCL	M - Hexane
B - NaOH	N - None
C - Zn Acetate	O - AsNaO2
D - Nitric Acid	P - Na2O4S
E - NaHSO4	Q - Na2SO3
F - MeOH	R - Na2S2O3
G - Amchlor	S - H2SO4
H - Ascorbic Acid	T - TSP Dodecahydrate
I - Ice	U - Acetone
J - DI Water	V - MCAA
K - EDTA	W - pH 4-5
L - EDA	Z - other (specify)

Other:

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	8290/8290_P_Sox Dioxins/Furans-17 Isomers List	Total Number of containers	Special Instructions/Note:
			Preservation Code:						
AOC3-B1-D0.5 (440-198799-49)	12/19/17	11:15 Pacific		Solid			X	1	
AOC3-B1-D0.5-DUP (440-198799-52)	12/19/17	11:15 Pacific		Solid			X	1	

Note: Since laboratory accreditations are subject to change, TestAmerica Laboratories, Inc. places the ownership of method, analyte & accreditation compliance upon out subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/tests/matrix being analyzed, the samples must be shipped back to the TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to TestAmerica Laboratories, Inc. attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said complicance to TestAmerica Laboratories, Inc.

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
Unconfirmed	☐ Return To Client ☐ Disposal By Lab ☐ Archive For _____ Months
Deliverable Requested: I, II, III, IV, Other (specify) Primary Deliverable Rank: 2	Special Instructions/QC Requirements:

Empty Kit Relinquished by:	Date:	Time:	Method of Shipment:				
Relinquished by:	Date/Time: 12/27/17 @ 1700	Company TA-IV	Received by:	Date/Time: 12/28/17 8:55	Company TA-W.Sac
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

Custody Seals Intact: Δ Yes Δ No	Custody Seal No.:	Cooler Temperature(s) °C and Other Remarks: 10.5

Ver: 09/20/2016

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198799-2

Login Number: 198799

List Source: TestAmerica Irvine

List Number: 1

Creator: Avila, Stephanie 1

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198799-2

Login Number: 198799
List Number: 2
Creator: Her, David A

List Source: TestAmerica Sacramento
List Creation: 12/22/17 03:01 PM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	N/A	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	3.3 C
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	False	

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198799-2

Login Number: 198799
List Number: 3
Creator: Hytrek, Cheryl

List Source: TestAmerica Sacramento
List Creation: 12/28/17 11:55 AM

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	False	Cooler temperature outside required temperature criteria.
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	False	clear jars for dioxins
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Isotope Dilution Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-2

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF (40-135)	HxDD (40-135)	HxCDF (40-135)	HpCDD (40-135)	HpCDF (40-135)
440-198799-49	AOC3-B1-D0.5	73	70	71	74	71	63	65	67
440-198799-52	AOC3-B1-D0.5-DUP	71	69	67	71	70	63	61	63
LCS 320-203363/2-A	Lab Control Sample	78	82	73	80	84	90	82	84
LCSD 320-203363/3-A	Lab Control Sample Dup	71	74	67	71	77	76	70	73
MB 320-203363/1-A	Method Blank	62	64	54	62	67	68	66	70

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
440-198799-49	AOC3-B1-D0.5	64
440-198799-52	AOC3-B1-D0.5-DUP	60
LCS 320-203363/2-A	Lab Control Sample	82
LCSD 320-203363/3-A	Lab Control Sample Dup	75
MB 320-203363/1-A	Method Blank	72

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD
HxCDF = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

Method: 8290 - Dioxins and Furans (HRGC/HRMS)

Matrix: Water **Prep Type: Total/NA**

		Percent Isotope Dilution Recovery (Acceptance Limits)							
Lab Sample ID	Client Sample ID	TCDD (40-135)	TCDF (40-135)	PeCDD (40-135)	PeCDF (40-135)	HxDD (40-135)	HxCDF (40-135)	HpCDD (40-135)	HpCDF (40-135)
440-198799-12	E121917	87	90	100	91	84	99	99	92
LCS 320-203119/2-A	Lab Control Sample	87	87	88	89	83	93	95	88
LCSD 320-203119/3-A	Lab Control Sample Dup	87	87	96	88	82	96	96	88
MB 320-203119/1-A	Method Blank	88	89	91	88	86	97	95	87

		Percent Isotope Dilution Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OCDD (40-135)
440-198799-12	E121917	105
LCS 320-203119/2-A	Lab Control Sample	101
LCSD 320-203119/3-A	Lab Control Sample Dup	101
MB 320-203119/1-A	Method Blank	99

Surrogate Legend

TCDD = 13C-2,3,7,8-TCDD
TCDF = 13C-2,3,7,8-TCDF
PeCDD = 13C-1,2,3,7,8-PeCDD
PeCDF = 13C-1,2,3,7,8-PeCDF
HxDD = 13C-1,2,3,6,7,8-HxCDD

HxCDF = 13C-1,2,3,4,7,8-HxCDF
HpCDD = 13C-1,2,3,4,6,7,8-HpCDD
HpCDF = 13C-1,2,3,4,6,7,8-HpCDF
OCDD = 13C-OCDD

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198876-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/29/2017 3:33:41 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 9
Surrogate Summary 19
Method Summary 20
Lab Chronicle 21
QC Sample Results 28
QC Association Summary 34
Definitions/Glossary 38
Certification Summary 39
Chain of Custody 40
Receipt Checklists 52

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198876-1	AOC1-B21-D0.5	Solid	12/20/17 07:20	12/20/17 18:25
440-198876-4	AOC1-B21-D0.5DUP	Solid	12/20/17 07:20	12/20/17 18:25
440-198876-5	AOC1-B18-D0.5	Solid	12/20/17 07:35	12/20/17 18:25
440-198876-8	AOC1-B18-D0.5DUP	Solid	12/20/17 07:35	12/20/17 18:25
440-198876-9	AOC1-B17-D0.5	Solid	12/20/17 07:50	12/20/17 18:25
440-198876-12	E122017	Water	12/20/17 07:00	12/20/17 18:25
440-198876-13	AOC1-B16-D0.5	Solid	12/20/17 08:05	12/20/17 18:25
440-198876-16	AOC1-B14-D0.5	Solid	12/20/17 08:20	12/20/17 18:25
440-198876-19	AOC1-B28-D0.5	Solid	12/20/17 08:35	12/20/17 18:25
440-198876-22	AOC2-B2-D0.5	Solid	12/20/17 08:50	12/20/17 18:25
440-198876-25	AOC2-B1-D0.5	Solid	12/20/17 09:05	12/20/17 18:25
440-198876-28	AOC2-B1-D0.5DUP	Solid	12/20/17 09:05	12/20/17 18:25
440-198876-29	AOC1-B29-D0.5	Solid	12/20/17 09:10	12/20/17 18:25
440-198876-32	AOC1-B26-D0.5	Solid	12/20/17 09:25	12/20/17 18:25
440-198876-35	AOC1-B28-D0.5DUP	Solid	12/20/17 08:35	12/20/17 18:25
440-198876-36	AOC1-B25-D0.5	Solid	12/20/17 09:40	12/20/17 18:25
440-198876-39	AOC1-B24-D0.5	Solid	12/20/17 09:55	12/20/17 18:25
440-198876-42	AOC1-B27-D0.5	Solid	12/20/17 10:10	12/20/17 18:25
440-198876-45	AOC1-B23-D0.5	Solid	12/20/17 10:25	12/20/17 18:25
440-198876-48	AOC1-B12-D0.5	Solid	12/20/17 10:40	12/20/17 18:25
440-198876-51	AOC1-B11-D0.5	Solid	12/20/17 10:55	12/20/17 18:25
440-198876-54	AOC1-B10-D0.5	Solid	12/20/17 11:10	12/20/17 18:25
440-198876-57	AOC1-B9-D0.5	Solid	12/20/17 11:25	12/20/17 18:25
440-198876-60	AOC1-B6-D0.5	Solid	12/20/17 11:40	12/20/17 18:25
440-198876-63	AOC1-B3-D0.5	Solid	12/20/17 11:55	12/20/17 18:25
440-198876-66	AOC1-B2-D0.5	Solid	12/20/17 12:10	12/20/17 18:25
440-198876-69	AOC1-B1-D0.5	Solid	12/20/17 12:25	12/20/17 18:25
440-198876-72	AOC1-B4-D0.5	Solid	12/20/17 12:40	12/20/17 18:25
440-198876-75	AOC1-B5-D0.5	Solid	12/20/17 12:55	12/20/17 18:25
440-198876-78	AOC1-B8-D0.5	Solid	12/20/17 13:10	12/20/17 18:25
440-198876-81	AOC1-B13-D0.5	Solid	12/20/17 13:25	12/20/17 18:25
440-198876-84	AOC1-B94-D0.5	Solid	12/20/17 13:40	12/20/17 18:25
440-198876-87	AOC1-B97-D0.5	Solid	12/20/17 13:55	12/20/17 18:25
440-198876-90	AOC1-B96-D0.5	Solid	12/20/17 14:10	12/20/17 18:25
440-198876-93	AOC1-B95-D0.5	Solid	12/20/17 14:25	12/20/17 18:25
440-198876-96	AOC1-B93-D0.5	Solid	12/20/17 14:40	12/20/17 18:25

Job ID: 440-198876-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198876-1

Comments
No additional comments.

Receipt
The samples were received on 12/20/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 2.7º C.

Receipt Exceptions
The following samples were received at the laboratory without a sample collection date documented on the chain of custody: AOC1-B4-D0.5 (440-198876-72), AOC1-B4-D1.5 (440-198876-73), AOC1-B4-D2.5 (440-198876-74), AOC1-B5-D0.5 (440-198876-75), AOC1-B5-D1.5 (440-198876-76), AOC1-B5-D2.5 (440-198876-77), AOC1-B8-D0.5 (440-198876-78), AOC1-B8-D1.5 (440-198876-79), AOC1-B8-D2.5 (440-198876-80), AOC1-B13-D0.5 (440-198876-81) and AOC1-B13-D1.5 (440-198876-82). The client was contacted and sampling date of 12/20/17 was confirmed.

GC Semi VOA
Method(s) 8081A, 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448247. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C / 8081A / 8082: Elevated reporting limits are provided for the following sample due to insufficient sample volume (less than 250ml) provided for preparation: E122017 (440-198876-12).

Method(s) 3546 / 8082: The following samples had smaller initial amount used due to the nature of the sample matrix: AOC1-B21-D0.5 (440-198876-1), AOC1-B21-D0.5DUP (440-198876-4), AOC1-B18-D0.5 (440-198876-5), AOC1-B18-D0.5DUP (440-198876-8), AOC1-B17-D0.5 (440-198876-9), AOC1-B28-D0.5 (440-198876-19), AOC2-B2-D0.5 (440-198876-22), AOC2-B1-D0.5 (440-198876-25), AOC1-B12-D0.5 (440-198876-48). Elevated reporting limits (RLs) are provided.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC1-B21-D0.5 — Lab Sample ID: 440-198876-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	65	J	100	35	ug/Kg	1		8082	Total/NA
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	33		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B21-D0.5DUP — Lab Sample ID: 440-198876-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Aroclor 1260	44	J	100	35	ug/Kg	1		8082	Total/NA
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	41		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B18-D0.5 — Lab Sample ID: 440-198876-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B18-D0.5DUP — Lab Sample ID: 440-198876-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.8		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B17-D0.5 — Lab Sample ID: 440-198876-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.9		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: E122017 — Lab Sample ID: 440-198876-12

No Detections.

Client Sample ID: AOC1-B16-D0.5 — Lab Sample ID: 440-198876-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B14-D0.5 — Lab Sample ID: 440-198876-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	17		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B28-D0.5 — Lab Sample ID: 440-198876-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.3		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC2-B2-D0.5 — Lab Sample ID: 440-198876-22

No Detections.

Client Sample ID: AOC2-B1-D0.5 — Lab Sample ID: 440-198876-25

No Detections.

Client Sample ID: AOC2-B1-D0.5DUP — Lab Sample ID: 440-198876-28

No Detections.

Client Sample ID: AOC1-B29-D0.5 — Lab Sample ID: 440-198876-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.4		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B26-D0.5 — Lab Sample ID: 440-198876-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B28-D0.5DUP — Lab Sample ID: 440-198876-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.4		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B25-D0.5 — Lab Sample ID: 440-198876-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.5		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B24-D0.5 — Lab Sample ID: 440-198876-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.8		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B27-D0.5 — Lab Sample ID: 440-198876-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B23-D0.5 — Lab Sample ID: 440-198876-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC1-B12-D0.5 — Lab Sample ID: 440-198876-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B11-D0.5 — Lab Sample ID: 440-198876-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-D0.5 — Lab Sample ID: 440-198876-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	32		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	18		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B9-D0.5 — Lab Sample ID: 440-198876-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.9		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-D0.5 — Lab Sample ID: 440-198876-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	170		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B3-D0.5 — Lab Sample ID: 440-198876-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	32		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B2-D0.5 — Lab Sample ID: 440-198876-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	66		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-D0.5 — Lab Sample ID: 440-198876-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	55		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B4-D0.5 — Lab Sample ID: 440-198876-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	14		2.0	1.0	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC1-B5-D0.5 — Lab Sample ID: 440-198876-75

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-D0.5 — Lab Sample ID: 440-198876-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	73		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B13-D0.5 — Lab Sample ID: 440-198876-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	29		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B94-D0.5 — Lab Sample ID: 440-198876-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.4		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B97-D0.5 — Lab Sample ID: 440-198876-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	19		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B96-D0.5 — Lab Sample ID: 440-198876-90

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B95-D0.5 — Lab Sample ID: 440-198876-93

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B93-D0.5 — Lab Sample ID: 440-198876-96

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.0		2.0	0.99	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B21-D0.5

Lab Sample ID: 440-198876-1

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1221	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1232	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1242	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1248	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1254	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1
Aroclor 1260	**65**	**J**	100	35	ug/Kg		12/21/17 18:27	12/22/17 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/21/17 18:27*	*12/22/17 13:15*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.8**		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 16:46	5
Lead	**33**		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 16:46	5

Client Sample ID: AOC1-B21-D0.5DUP

Lab Sample ID: 440-198876-4

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1221	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1232	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1242	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1248	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1254	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1
Aroclor 1260	**44**	**J**	100	35	ug/Kg		12/21/17 18:27	12/22/17 13:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*12/21/17 18:27*	*12/22/17 13:28*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.7**		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:03	5
Lead	**41**		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:03	5

Client Sample ID: AOC1-B18-D0.5

Lab Sample ID: 440-198876-5

Date Collected: 12/20/17 07:35

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1221	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1232	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1242	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1248	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1254	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1
Aroclor 1260	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 13:42	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	60		45 - 120	12/21/17 18:27	12/22/17 13:42	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:05	5
Lead	5.0		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:05	5

Client Sample ID: AOC1-B18-D0.5DUP

Lab Sample ID: 440-198876-8

Date Collected: 12/20/17 07:35

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1221	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1232	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1242	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1248	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1254	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1
Aroclor 1260	ND		100	36	ug/Kg		12/21/17 18:27	12/22/17 13:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	77		45 - 120	12/21/17 18:27	12/22/17 13:56	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:07	5
Lead	5.8		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:07	5

Client Sample ID: AOC1-B17-D0.5

Lab Sample ID: 440-198876-9

Date Collected: 12/20/17 07:50

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1221	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1232	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1242	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1248	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1254	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1
Aroclor 1260	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	86		45 - 120	12/21/17 18:27	12/22/17 14:10	1

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:09	5
Lead	9.9		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:09	5

Client Sample ID: E122017

Lab Sample ID: 440-198876-12

Date Collected: 12/20/17 07:00

Matrix: Water

Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
4,4'-DDE	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
4,4'-DDT	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Aldrin	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
alpha-BHC	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
beta-BHC	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Chlordane (technical)	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 18:17	1
delta-BHC	ND		0.21	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Dieldrin	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endosulfan I	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endosulfan II	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endosulfan sulfate	ND		0.21	0.11	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endrin	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endrin aldehyde	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Endrin ketone	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
gamma-BHC (Lindane)	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Heptachlor	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Heptachlor epoxide	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Methoxychlor	ND		0.11	0.053	ug/L		12/22/17 06:34	12/22/17 18:17	1
Toxaphene	ND		5.3	2.7	ug/L		12/22/17 06:34	12/22/17 18:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*42*		*19 - 115*	*12/22/17 06:34*	*12/22/17 18:17*	*1*
DCB Decachlorobiphenyl (Surr)	*75*		*10 - 149*	*12/22/17 06:34*	*12/22/17 18:17*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1221	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1232	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1242	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1248	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1254	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1
Aroclor 1260	ND		1.1	0.53	ug/L		12/22/17 06:34	12/22/17 16:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*79*		*26 - 115*	*12/22/17 06:34*	*12/22/17 16:46*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/27/17 07:45	12/27/17 17:19	1
Lead	ND		0.0050	0.0038	mg/L		12/27/17 07:45	12/27/17 17:19	1

Client Sample ID: AOC1-B16-D0.5

Lab Sample ID: 440-198876-13

Date Collected: 12/20/17 08:05

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.6**		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:11	5
Lead	**7.0**		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:11	5

Client Sample ID: AOC1-B14-D0.5

Lab Sample ID: 440-198876-16

Date Collected: 12/20/17 08:20
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.7		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:13	5
Lead	17		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:13	5

Client Sample ID: AOC1-B28-D0.5

Lab Sample ID: 440-198876-19

Date Collected: 12/20/17 08:35
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1221	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1232	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1242	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1248	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1254	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1
Aroclor 1260	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 14:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*75*		*45 - 120*	*12/21/17 18:27*	*12/22/17 14:23*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:15	5
Lead	9.3		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:15	5

Client Sample ID: AOC2-B2-D0.5

Lab Sample ID: 440-198876-22

Date Collected: 12/20/17 08:50
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1221	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1232	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1242	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1248	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1254	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1
Aroclor 1260	ND		110	36	ug/Kg		12/21/17 18:27	12/22/17 15:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*66*		*45 - 120*	*12/21/17 18:27*	*12/22/17 15:04*	*1*

Client Sample ID: AOC2-B1-D0.5

Lab Sample ID: 440-198876-25

Date Collected: 12/20/17 09:05
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1
Aroclor 1221	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1
Aroclor 1232	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1

Client Sample ID: AOC2-B1-D0.5

Lab Sample ID: 440-198876-25

Date Collected: 12/20/17 09:05

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1242	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1
Aroclor 1248	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1
Aroclor 1254	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1
Aroclor 1260	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*12/21/17 18:27*	*12/22/17 15:18*	*1*

Client Sample ID: AOC2-B1-D0.5DUP

Lab Sample ID: 440-198876-28

Date Collected: 12/20/17 09:05

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1221	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1232	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1242	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1248	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1254	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1
Aroclor 1260	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*12/21/17 18:27*	*12/22/17 15:32*	*1*

Client Sample ID: AOC1-B29-D0.5

Lab Sample ID: 440-198876-29

Date Collected: 12/20/17 09:10

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:23	5
Lead	7.4		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:23	5

Client Sample ID: AOC1-B26-D0.5

Lab Sample ID: 440-198876-32

Date Collected: 12/20/17 09:25

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.2		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:25	5
Lead	13		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:25	5

Client Sample ID: AOC1-B28-D0.5DUP

Lab Sample ID: 440-198876-35

Date Collected: 12/20/17 08:35

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:27	5
Lead	8.4		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:27	5

Client Sample ID: AOC1-B25-D0.5

Lab Sample ID: 440-198876-36

Date Collected: 12/20/17 09:40

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1221	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1232	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1242	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1248	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1254	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1
Aroclor 1260	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 14:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*45 - 120*	*12/21/17 18:27*	*12/22/17 14:37*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:29	5
Lead	6.5		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:29	5

Client Sample ID: AOC1-B24-D0.5

Lab Sample ID: 440-198876-39

Date Collected: 12/20/17 09:55

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.7		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:32	5
Lead	8.8		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:32	5

Client Sample ID: AOC1-B27-D0.5

Lab Sample ID: 440-198876-42

Date Collected: 12/20/17 10:10

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:34	5
Lead	8.6		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:34	5

Client Sample ID: AOC1-B23-D0.5

Lab Sample ID: 440-198876-45

Date Collected: 12/20/17 10:25

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:36	5
Lead	8.6		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:36	5

Client Sample ID: AOC1-B12-D0.5

Lab Sample ID: 440-198876-48

Date Collected: 12/20/17 10:40

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1
Aroclor 1221	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1

Client Sample ID: AOC1-B12-D0.5

Lab Sample ID: 440-198876-48

Date Collected: 12/20/17 10:40

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1232	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1
Aroclor 1242	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1
Aroclor 1248	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1
Aroclor 1254	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1
Aroclor 1260	ND		100	35	ug/Kg		12/21/17 18:27	12/22/17 14:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*12/21/17 18:27*	*12/22/17 14:51*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.7		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:38	5
Lead	12		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:38	5

Client Sample ID: AOC1-B11-D0.5

Lab Sample ID: 440-198876-51

Date Collected: 12/20/17 10:55

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:40	5
Lead	11		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:40	5

Client Sample ID: AOC1-B10-D0.5

Lab Sample ID: 440-198876-54

Date Collected: 12/20/17 11:10

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:42	5
Lead	18		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:42	5

Client Sample ID: AOC1-B9-D0.5

Lab Sample ID: 440-198876-57

Date Collected: 12/20/17 11:25

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:50	5
Lead	6.9		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:50	5

Client Sample ID: AOC1-B6-D0.5

Lab Sample ID: 440-198876-60

Date Collected: 12/20/17 11:40

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 17:52	5
Lead	170		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 17:52	5

Client Sample ID: AOC1-B3-D0.5 — **Lab Sample ID: 440-198876-63**
Date Collected: 12/20/17 11:55 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:05	5
Lead	32		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:05	5

Client Sample ID: AOC1-B2-D0.5 — **Lab Sample ID: 440-198876-66**
Date Collected: 12/20/17 12:10 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:15	5
Lead	66		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:15	5

Client Sample ID: AOC1-B1-D0.5 — **Lab Sample ID: 440-198876-69**
Date Collected: 12/20/17 12:25 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:18	5
Lead	55		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:18	5

Client Sample ID: AOC1-B4-D0.5 — **Lab Sample ID: 440-198876-72**
Date Collected: 12/20/17 12:40 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:20	5
Lead	14		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:20	5

Client Sample ID: AOC1-B5-D0.5 — **Lab Sample ID: 440-198876-75**
Date Collected: 12/20/17 12:55 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:27	5
Lead	11		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:27	5

Client Sample ID: AOC1-B8-D0.5 — **Lab Sample ID: 440-198876-78**
Date Collected: 12/20/17 13:10 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:29	5
Lead	73		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:29	5

Client Sample ID: AOC1-B13-D0.5

Lab Sample ID: 440-198876-81

Date Collected: 12/20/17 13:25

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:31	5
Lead	29		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:31	5

Client Sample ID: AOC1-B94-D0.5

Lab Sample ID: 440-198876-84

Date Collected: 12/20/17 13:40

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:33	5
Lead	6.4		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:33	5

Client Sample ID: AOC1-B97-D0.5

Lab Sample ID: 440-198876-87

Date Collected: 12/20/17 13:55

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:35	5
Lead	19		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:35	5

Client Sample ID: AOC1-B96-D0.5

Lab Sample ID: 440-198876-90

Date Collected: 12/20/17 14:10

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:38	5
Lead	12		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:38	5

Client Sample ID: AOC1-B95-D0.5

Lab Sample ID: 440-198876-93

Date Collected: 12/20/17 14:25

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1221	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1232	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1242	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1248	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1254	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1
Aroclor 1260	ND		49	17	ug/Kg		12/21/17 18:27	12/22/17 15:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*12/21/17 18:27*	*12/22/17 15:46*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:40	5
Lead	7.0		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:40	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC1-B93-D0.5
Date Collected: 12/20/17 14:40
Date Received: 12/20/17 18:25

Lab Sample ID: 440-198876-96
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		12/28/17 07:42	12/28/17 14:11	5
Lead	9.0		2.0	0.99	mg/Kg		12/28/17 07:42	12/28/17 14:11	5

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		TCX2	DCB2								
Lab Sample ID	Client Sample ID	(19-115)	(10-149)								
440-198876-12	E122017	42	75								
LCS 440-448247/2-A	Lab Control Sample	54	76								
LCSD 440-448247/3-A	Lab Control Sample Dup	66	82								
MB 440-448247/1-A	Method Blank	50	81								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2									
Lab Sample ID	Client Sample ID	(45-120)									
440-198876-1	AOC1-B21-D0.5	70									
440-198876-1 MS	AOC1-B21-D0.5	52									
440-198876-1 MSD	AOC1-B21-D0.5	54									
440-198876-4	AOC1-B21-D0.5DUP	69									
440-198876-5	AOC1-B18-D0.5	60									
440-198876-8	AOC1-B18-D0.5DUP	77									
440-198876-9	AOC1-B17-D0.5	86									
440-198876-19	AOC1-B28-D0.5	75									
440-198876-22	AOC2-B2-D0.5	66									
440-198876-25	AOC2-B1-D0.5	78									
440-198876-28	AOC2-B1-D0.5DUP	83									
440-198876-36	AOC1-B25-D0.5	82									
440-198876-48	AOC1-B12-D0.5	64									
440-198876-93	AOC1-B95-D0.5	88									
LCS 440-448186/2-A	Lab Control Sample	93									
MB 440-448186/1-A	Method Blank	92									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
		DCB2									
Lab Sample ID	Client Sample ID	(26-115)									
440-198876-12	E122017	79									
LCS 440-448247/4-A	Lab Control Sample	82									
LCSD 440-448247/5-A	Lab Control Sample Dup	84									
MB 440-448247/1-A	Method Blank	89									

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B21-D0.5

Lab Sample ID: 440-198876-1

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.23 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1	1 mL	1.0 mL	448269	12/22/17 13:15	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 16:46	K1E	TAL IRV

Client Sample ID: AOC1-B21-D0.5DUP

Lab Sample ID: 440-198876-4

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.37 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 13:28	JM	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:03	K1E	TAL IRV

Client Sample ID: AOC1-B18-D0.5

Lab Sample ID: 440-198876-5

Date Collected: 12/20/17 07:35

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.09 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 13:42	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:05	K1E	TAL IRV

Client Sample ID: AOC1-B18-D0.5DUP

Lab Sample ID: 440-198876-8

Date Collected: 12/20/17 07:35

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.15 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 13:56	JM	TAL IRV
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:07	K1E	TAL IRV

Client Sample ID: AOC1-B17-D0.5

Lab Sample ID: 440-198876-9

Date Collected: 12/20/17 07:50

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.27 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 14:10	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV

Client Sample ID: AOC1-B17-D0.5

Lab Sample ID: 440-198876-9

Date Collected: 12/20/17 07:50

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	6010B		5			448647	12/26/17 17:09	K1E	TAL IRV

Client Sample ID: E122017

Lab Sample ID: 440-198876-12

Date Collected: 12/20/17 07:00

Matrix: Water

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			235 mL	2 mL	448247	12/22/17 06:34	L2A	TAL IRV
Total/NA	Analysis	8081A		1			448340	12/22/17 18:17	D1D	TAL IRV
Total/NA	Prep	3510C			235 mL	2 mL	448247	12/22/17 06:34	L2A	TAL IRV
Total/NA	Analysis	8082		1			448300	12/22/17 16:46	JM	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	448713	12/27/17 07:45	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			448882	12/27/17 17:19	K1E	TAL IRV

Client Sample ID: AOC1-B16-D0.5

Lab Sample ID: 440-198876-13

Date Collected: 12/20/17 08:05

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:11	K1E	TAL IRV

Client Sample ID: AOC1-B14-D0.5

Lab Sample ID: 440-198876-16

Date Collected: 12/20/17 08:20

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:13	K1E	TAL IRV

Client Sample ID: AOC1-B28-D0.5

Lab Sample ID: 440-198876-19

Date Collected: 12/20/17 08:35

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.10 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1	1 mL	1.0 mL	448269	12/22/17 14:23	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:15	K1E	TAL IRV

Client Sample ID: AOC2-B2-D0.5

Lab Sample ID: 440-198876-22

Date Collected: 12/20/17 08:50

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.00 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 15:04	JM	TAL IRV

Client Sample ID: AOC2-B1-D0.5

Lab Sample ID: 440-198876-25

Date Collected: 12/20/17 09:05

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.36 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 15:18	JM	TAL IRV

Client Sample ID: AOC2-B1-D0.5DUP

Lab Sample ID: 440-198876-28

Date Collected: 12/20/17 09:05

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 15:32	JM	TAL IRV

Client Sample ID: AOC1-B29-D0.5

Lab Sample ID: 440-198876-29

Date Collected: 12/20/17 09:10

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:23	K1E	TAL IRV

Client Sample ID: AOC1-B26-D0.5

Lab Sample ID: 440-198876-32

Date Collected: 12/20/17 09:25

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:25	K1E	TAL IRV

Client Sample ID: AOC1-B28-D0.5DUP

Lab Sample ID: 440-198876-35

Date Collected: 12/20/17 08:35

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:27	K1E	TAL IRV

Client Sample ID: AOC1-B25-D0.5

Lab Sample ID: 440-198876-36

Date Collected: 12/20/17 09:40

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 14:37	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:29	K1E	TAL IRV

Client Sample ID: AOC1-B24-D0.5

Lab Sample ID: 440-198876-39

Date Collected: 12/20/17 09:55

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:32	K1E	TAL IRV

Client Sample ID: AOC1-B27-D0.5

Lab Sample ID: 440-198876-42

Date Collected: 12/20/17 10:10

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:34	K1E	TAL IRV

Client Sample ID: AOC1-B23-D0.5

Lab Sample ID: 440-198876-45

Date Collected: 12/20/17 10:25

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:36	K1E	TAL IRV

Client Sample ID: AOC1-B12-D0.5

Lab Sample ID: 440-198876-48

Date Collected: 12/20/17 10:40

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			7.29 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 14:51	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:38	K1E	TAL IRV

Client Sample ID: AOC1-B11-D0.5

Lab Sample ID: 440-198876-51

Date Collected: 12/20/17 10:55

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:40	K1E	TAL IRV

Client Sample ID: AOC1-B10-D0.5

Lab Sample ID: 440-198876-54

Date Collected: 12/20/17 11:10

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:42	K1E	TAL IRV

Client Sample ID: AOC1-B9-D0.5

Lab Sample ID: 440-198876-57

Date Collected: 12/20/17 11:25

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:50	K1E	TAL IRV

Client Sample ID: AOC1-B6-D0.5

Lab Sample ID: 440-198876-60

Date Collected: 12/20/17 11:40

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448389	12/22/17 16:43	DT	TAL IRV
Total/NA	Analysis	6010B		5			448647	12/26/17 17:52	K1E	TAL IRV

Client Sample ID: AOC1-B3-D0.5

Lab Sample ID: 440-198876-63

Date Collected: 12/20/17 11:55

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:05	K1E	TAL IRV

Client Sample ID: AOC1-B2-D0.5

Lab Sample ID: 440-198876-66

Date Collected: 12/20/17 12:10

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:15	K1E	TAL IRV

Client Sample ID: AOC1-B1-D0.5

Lab Sample ID: 440-198876-69

Date Collected: 12/20/17 12:25

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:18	K1E	TAL IRV

Client Sample ID: AOC1-B4-D0.5

Lab Sample ID: 440-198876-72

Date Collected: 12/20/17 12:40

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:20	K1E	TAL IRV

Client Sample ID: AOC1-B5-D0.5

Lab Sample ID: 440-198876-75

Date Collected: 12/20/17 12:55

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:27	K1E	TAL IRV

Client Sample ID: AOC1-B8-D0.5

Lab Sample ID: 440-198876-78

Date Collected: 12/20/17 13:10

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:29	K1E	TAL IRV

Client Sample ID: AOC1-B13-D0.5

Lab Sample ID: 440-198876-81

Date Collected: 12/20/17 13:25

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:31	K1E	TAL IRV

Client Sample ID: AOC1-B94-D0.5

Lab Sample ID: 440-198876-84

Date Collected: 12/20/17 13:40

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:33	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Client Sample ID: AOC1-B97-D0.5

Lab Sample ID: 440-198876-87

Date Collected: 12/20/17 13:55
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:35	K1E	TAL IRV

Client Sample ID: AOC1-B96-D0.5

Lab Sample ID: 440-198876-90

Date Collected: 12/20/17 14:10
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:38	K1E	TAL IRV

Client Sample ID: AOC1-B95-D0.5

Lab Sample ID: 440-198876-93

Date Collected: 12/20/17 14:25
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.23 g	2 mL	448186	12/21/17 18:27	VA	TAL IRV
Total/NA	Analysis	8082		1			448269	12/22/17 15:46	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448397	12/22/17 17:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			448635	12/26/17 14:40	K1E	TAL IRV

Client Sample ID: AOC1-B93-D0.5

Lab Sample ID: 440-198876-96

Date Collected: 12/20/17 14:40
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448954	12/28/17 07:42	DT	TAL IRV
Total/NA	Analysis	6010B		5			449088	12/28/17 14:11	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-448247/1-A
Matrix: Water
Analysis Batch: 448340

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
4,4'-DDE	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
4,4'-DDT	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Aldrin	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
alpha-BHC	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
beta-BHC	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Chlordane (technical)	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 17:03	1
delta-BHC	ND		0.20	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Dieldrin	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endosulfan I	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endosulfan II	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endosulfan sulfate	ND		0.20	0.10	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endrin	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endrin aldehyde	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Endrin ketone	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
gamma-BHC (Lindane)	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Heptachlor	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Heptachlor epoxide	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Methoxychlor	ND		0.10	0.050	ug/L		12/22/17 06:34	12/22/17 17:03	1
Toxaphene	ND		5.0	2.5	ug/L		12/22/17 06:34	12/22/17 17:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*50*		*19 - 115*	*12/22/17 06:34*	*12/22/17 17:03*	*1*
DCB Decachlorobiphenyl (Surr)	*81*		*10 - 149*	*12/22/17 06:34*	*12/22/17 17:03*	*1*

Lab Sample ID: LCS 440-448247/2-A
Matrix: Water
Analysis Batch: 448340

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.343		ug/L		86	63 - 141
4,4'-DDE	0.400	0.322		ug/L		81	44 - 135
4,4'-DDT	0.400	0.357		ug/L		89	51 - 125
Aldrin	0.400	0.247		ug/L		62	26 - 115
alpha-BHC	0.400	0.236		ug/L		59	57 - 115
beta-BHC	0.400	0.307		ug/L		77	57 - 115
delta-BHC	0.400	0.290		ug/L		73	47 - 122
Dieldrin	0.400	0.332		ug/L		83	57 - 115
Endosulfan I	0.400	0.316		ug/L		79	54 - 115
Endosulfan II	0.400	0.323		ug/L		81	45 - 122
Endosulfan sulfate	0.400	0.339		ug/L		85	56 - 115
Endrin	0.400	0.315		ug/L		79	64 - 115
Endrin aldehyde	0.400	0.314		ug/L		79	39 - 121
Endrin ketone	0.400	0.330		ug/L		82	34 - 150
gamma-BHC (Lindane)	0.400	0.258		ug/L		65	59 - 115
Heptachlor	0.400	0.221		ug/L		55	44 - 120
Heptachlor epoxide	0.400	0.296		ug/L		74	57 - 115
Methoxychlor	0.400	0.363		ug/L		91	44 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	54		19 - 115
DCB Decachlorobiphenyl (Surr)	76		10 - 149

Lab Sample ID: LCSD 440-448247/3-A
Matrix: Water
Analysis Batch: 448340

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448247

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.367		ug/L		92	63 - 141	7	27
4,4'-DDE			0.400	0.343		ug/L		86	44 - 135	6	35
4,4'-DDT			0.400	0.382		ug/L		95	51 - 125	7	32
Aldrin			0.400	0.273		ug/L		68	26 - 115	10	25
alpha-BHC			0.400	0.270		ug/L		67	57 - 115	13	19
beta-BHC			0.400	0.343		ug/L		86	57 - 115	11	26
delta-BHC			0.400	0.299		ug/L		75	47 - 122	3	20
Dieldrin			0.400	0.354		ug/L		88	57 - 115	6	22
Endosulfan I			0.400	0.339		ug/L		85	54 - 115	7	20
Endosulfan II			0.400	0.344		ug/L		86	45 - 122	6	35
Endosulfan sulfate			0.400	0.355		ug/L		89	56 - 115	5	22
Endrin			0.400	0.337		ug/L		84	64 - 115	7	23
Endrin aldehyde			0.400	0.337		ug/L		84	39 - 121	7	30
Endrin ketone			0.400	0.349		ug/L		87	34 - 150	6	27
gamma-BHC (Lindane)			0.400	0.285		ug/L		71	59 - 115	10	17
Heptachlor			0.400	0.263		ug/L		66	44 - 120	17	24
Heptachlor epoxide			0.400	0.322		ug/L		81	57 - 115	9	23
Methoxychlor			0.400	0.387		ug/L		97	44 - 150	6	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	66		19 - 115
DCB Decachlorobiphenyl (Surr)	82		10 - 149

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-448186/1-A
Matrix: Solid
Analysis Batch: 448269

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448186

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1221	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1232	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1242	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1248	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1254	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1
Aroclor 1260	ND		50	17	ug/Kg		12/21/17 18:27	12/22/17 12:20	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	92		45 - 120	12/21/17 18:27	12/22/17 12:20	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-448186/2-A
Matrix: Solid
Analysis Batch: 448269

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448186

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	283		ug/Kg		106	65 - 115		
Aroclor 1260			267	284		ug/Kg		107	65 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*93*		*45 - 120*

Lab Sample ID: 440-198876-1 MS
Matrix: Solid
Analysis Batch: 448269

Client Sample ID: AOC1-B21-D0.5
Prep Type: Total/NA
Prep Batch: 448186

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		567	376		ug/Kg		66	50 - 120		
Aroclor 1260	65	J	567	361		ug/Kg		52	50 - 125		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Lab Sample ID: 440-198876-1 MSD
Matrix: Solid
Analysis Batch: 448269

Client Sample ID: AOC1-B21-D0.5
Prep Type: Total/NA
Prep Batch: 448186

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		546	365		ug/Kg		67	50 - 120	3	30
Aroclor 1260	65	J	546	352		ug/Kg		53	50 - 125	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*

Lab Sample ID: MB 440-448247/1-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448247

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/22/17 06:34	12/22/17 16:07	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*89*		*26 - 115*	*12/22/17 06:34*	*12/22/17 16:07*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-448247/4-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448247

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	3.57		ug/L		89	59 - 115
Aroclor 1260	4.00	3.89		ug/L		97	48 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*82*		*26 - 115*

Lab Sample ID: LCSD 440-448247/5-A
Matrix: Water
Analysis Batch: 448300

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448247

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.74		ug/L		94	59 - 115	5	30
Aroclor 1260	4.00	4.03		ug/L		101	48 - 115	4	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*84*		*26 - 115*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448389/1-A ^5
Matrix: Solid
Analysis Batch: 448647

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448389

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/22/17 16:43	12/26/17 16:42	5
Lead	ND		2.0	1.0	mg/Kg		12/22/17 16:43	12/26/17 16:42	5

Lab Sample ID: LCS 440-448389/2-A ^5
Matrix: Solid
Analysis Batch: 448647

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448389

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	50.9		mg/Kg		102	80 - 120
Lead	50.0	50.1		mg/Kg		100	80 - 120

Lab Sample ID: 440-198876-1 MS
Matrix: Solid
Analysis Batch: 448647

Client Sample ID: AOC1-B21-D0.5
Prep Type: Total/NA
Prep Batch: 448389

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.8		49.8	56.0		mg/Kg		101	75 - 125
Lead	33		49.8	79.7		mg/Kg		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198876-1 MSD — **Client Sample ID: AOC1-B21-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448647 — **Prep Batch: 448389**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.8		50.0	57.5		mg/Kg		103	75 - 125	3	20
Lead	33		50.0	83.0		mg/Kg		100	75 - 125	4	20

Lab Sample ID: MB 440-448397/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448635 — **Prep Batch: 448397**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/22/17 17:20	12/26/17 14:01	5
Lead	ND		2.0	1.0	mg/Kg		12/22/17 17:20	12/26/17 14:01	5

Lab Sample ID: LCS 440-448397/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448635 — **Prep Batch: 448397**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.3	53.7		mg/Kg		107	80 - 120
Lead	50.3	54.4		mg/Kg		108	80 - 120

Lab Sample ID: 440-198876-63 MS — **Client Sample ID: AOC1-B3-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448635 — **Prep Batch: 448397**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.4		50.3	57.2		mg/Kg		99	75 - 125
Lead	32		50.3	83.1		mg/Kg		102	75 - 125

Lab Sample ID: 440-198876-63 MSD — **Client Sample ID: AOC1-B3-D0.5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 448635 — **Prep Batch: 448397**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.4		49.8	59.0		mg/Kg		104	75 - 125	3	20
Lead	32		49.8	77.6		mg/Kg		92	75 - 125	7	20

Lab Sample ID: MB 440-448954/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449088 — **Prep Batch: 448954**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/28/17 07:42	12/28/17 14:06	5
Lead	ND		2.0	1.0	mg/Kg		12/28/17 07:42	12/28/17 14:06	5

Lab Sample ID: LCS 440-448954/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449088 — **Prep Batch: 448954**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	45.4		mg/Kg		92	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-448954/2-A ^5
Matrix: Solid
Analysis Batch: 449088

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448954

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			49.5	45.3		mg/Kg		92	80 - 120		

Lab Sample ID: 440-198876-96 MS
Matrix: Solid
Analysis Batch: 449088

Client Sample ID: AOC1-B93-D0.5
Prep Type: Total/NA
Prep Batch: 448954

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	6.0		49.8	51.4		mg/Kg		91	75 - 125		
Lead	9.0		49.8	52.7		mg/Kg		88	75 - 125		

Lab Sample ID: 440-198876-96 MSD
Matrix: Solid
Analysis Batch: 449088

Client Sample ID: AOC1-B93-D0.5
Prep Type: Total/NA
Prep Batch: 448954

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.0		49.5	50.3		mg/Kg		90	75 - 125	2	20
Lead	9.0		49.5	51.3		mg/Kg		86	75 - 125	3	20

Lab Sample ID: MB 440-448713/1-A
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/27/17 07:45	12/27/17 17:15	1
Lead	ND		0.0050	0.0038	mg/L		12/27/17 07:45	12/27/17 17:15	1

Lab Sample ID: LCS 440-448713/2-A
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			1.00	0.879		mg/L		88	80 - 120		
Lead			1.00	0.874		mg/L		87	80 - 120		

Lab Sample ID: 440-198876-12 MS
Matrix: Water
Analysis Batch: 448882

Client Sample ID: E122017
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		1.00	0.921		mg/L		92	75 - 125		
Lead	ND		1.00	0.911		mg/L		91	75 - 125		

Lab Sample ID: 440-198876-12 MSD
Matrix: Water
Analysis Batch: 448882

Client Sample ID: E122017
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	0.891		mg/L		89	75 - 125	3	20
Lead	ND		1.00	0.884		mg/L		88	75 - 125	3	20

GC Semi VOA

Prep Batch: 448186

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-1	AOC1-B21-D0.5	Total/NA	Solid	3546	
440-198876-4	AOC1-B21-D0.5DUP	Total/NA	Solid	3546	
440-198876-5	AOC1-B18-D0.5	Total/NA	Solid	3546	
440-198876-8	AOC1-B18-D0.5DUP	Total/NA	Solid	3546	
440-198876-9	AOC1-B17-D0.5	Total/NA	Solid	3546	
440-198876-19	AOC1-B28-D0.5	Total/NA	Solid	3546	
440-198876-22	AOC2-B2-D0.5	Total/NA	Solid	3546	
440-198876-25	AOC2-B1-D0.5	Total/NA	Solid	3546	
440-198876-28	AOC2-B1-D0.5DUP	Total/NA	Solid	3546	
440-198876-36	AOC1-B25-D0.5	Total/NA	Solid	3546	
440-198876-48	AOC1-B12-D0.5	Total/NA	Solid	3546	
440-198876-93	AOC1-B95-D0.5	Total/NA	Solid	3546	
MB 440-448186/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-448186/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-198876-1 MS	AOC1-B21-D0.5	Total/NA	Solid	3546	
440-198876-1 MSD	AOC1-B21-D0.5	Total/NA	Solid	3546	

Prep Batch: 448247

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-12	E122017	Total/NA	Water	3510C	
MB 440-448247/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448247/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 440-448247/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448247/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 440-448247/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 448269

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-1	AOC1-B21-D0.5	Total/NA	Solid	8082	448186
440-198876-4	AOC1-B21-D0.5DUP	Total/NA	Solid	8082	448186
440-198876-5	AOC1-B18-D0.5	Total/NA	Solid	8082	448186
440-198876-8	AOC1-B18-D0.5DUP	Total/NA	Solid	8082	448186
440-198876-9	AOC1-B17-D0.5	Total/NA	Solid	8082	448186
440-198876-19	AOC1-B28-D0.5	Total/NA	Solid	8082	448186
440-198876-22	AOC2-B2-D0.5	Total/NA	Solid	8082	448186
440-198876-25	AOC2-B1-D0.5	Total/NA	Solid	8082	448186
440-198876-28	AOC2-B1-D0.5DUP	Total/NA	Solid	8082	448186
440-198876-36	AOC1-B25-D0.5	Total/NA	Solid	8082	448186
440-198876-48	AOC1-B12-D0.5	Total/NA	Solid	8082	448186
440-198876-93	AOC1-B95-D0.5	Total/NA	Solid	8082	448186
MB 440-448186/1-A	Method Blank	Total/NA	Solid	8082	448186
LCS 440-448186/2-A	Lab Control Sample	Total/NA	Solid	8082	448186
440-198876-1 MS	AOC1-B21-D0.5	Total/NA	Solid	8082	448186
440-198876-1 MSD	AOC1-B21-D0.5	Total/NA	Solid	8082	448186

Analysis Batch: 448300

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-12	E122017	Total/NA	Water	8082	448247
MB 440-448247/1-A	Method Blank	Total/NA	Water	8082	448247
LCS 440-448247/4-A	Lab Control Sample	Total/NA	Water	8082	448247
LCSD 440-448247/5-A	Lab Control Sample Dup	Total/NA	Water	8082	448247

Analysis Batch: 448340

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-12	E122017	Total/NA	Water	8081A	448247
MB 440-448247/1-A	Method Blank	Total/NA	Water	8081A	448247
LCS 440-448247/2-A	Lab Control Sample	Total/NA	Water	8081A	448247
LCSD 440-448247/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	448247

Metals

Prep Batch: 448389

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-1	AOC1-B21-D0.5	Total/NA	Solid	3050B	
440-198876-4	AOC1-B21-D0.5DUP	Total/NA	Solid	3050B	
440-198876-5	AOC1-B18-D0.5	Total/NA	Solid	3050B	
440-198876-8	AOC1-B18-D0.5DUP	Total/NA	Solid	3050B	
440-198876-9	AOC1-B17-D0.5	Total/NA	Solid	3050B	
440-198876-13	AOC1-B16-D0.5	Total/NA	Solid	3050B	
440-198876-16	AOC1-B14-D0.5	Total/NA	Solid	3050B	
440-198876-19	AOC1-B28-D0.5	Total/NA	Solid	3050B	
440-198876-29	AOC1-B29-D0.5	Total/NA	Solid	3050B	
440-198876-32	AOC1-B26-D0.5	Total/NA	Solid	3050B	
440-198876-35	AOC1-B28-D0.5DUP	Total/NA	Solid	3050B	
440-198876-36	AOC1-B25-D0.5	Total/NA	Solid	3050B	
440-198876-39	AOC1-B24-D0.5	Total/NA	Solid	3050B	
440-198876-42	AOC1-B27-D0.5	Total/NA	Solid	3050B	
440-198876-45	AOC1-B23-D0.5	Total/NA	Solid	3050B	
440-198876-48	AOC1-B12-D0.5	Total/NA	Solid	3050B	
440-198876-51	AOC1-B11-D0.5	Total/NA	Solid	3050B	
440-198876-54	AOC1-B10-D0.5	Total/NA	Solid	3050B	
440-198876-57	AOC1-B9-D0.5	Total/NA	Solid	3050B	
440-198876-60	AOC1-B6-D0.5	Total/NA	Solid	3050B	
MB 440-448389/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448389/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198876-1 MS	AOC1-B21-D0.5	Total/NA	Solid	3050B	
440-198876-1 MSD	AOC1-B21-D0.5	Total/NA	Solid	3050B	

Prep Batch: 448397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-63	AOC1-B3-D0.5	Total/NA	Solid	3050B	
440-198876-66	AOC1-B2-D0.5	Total/NA	Solid	3050B	
440-198876-69	AOC1-B1-D0.5	Total/NA	Solid	3050B	
440-198876-72	AOC1-B4-D0.5	Total/NA	Solid	3050B	
440-198876-75	AOC1-B5-D0.5	Total/NA	Solid	3050B	
440-198876-78	AOC1-B8-D0.5	Total/NA	Solid	3050B	
440-198876-81	AOC1-B13-D0.5	Total/NA	Solid	3050B	
440-198876-84	AOC1-B94-D0.5	Total/NA	Solid	3050B	
440-198876-87	AOC1-B97-D0.5	Total/NA	Solid	3050B	
440-198876-90	AOC1-B96-D0.5	Total/NA	Solid	3050B	
440-198876-93	AOC1-B95-D0.5	Total/NA	Solid	3050B	
MB 440-448397/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448397/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198876-63 MS	AOC1-B3-D0.5	Total/NA	Solid	3050B	
440-198876-63 MSD	AOC1-B3-D0.5	Total/NA	Solid	3050B	

Metals (Continued)

Analysis Batch: 448635

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-63	AOC1-B3-D0.5	Total/NA	Solid	6010B	448397
440-198876-66	AOC1-B2-D0.5	Total/NA	Solid	6010B	448397
440-198876-69	AOC1-B1-D0.5	Total/NA	Solid	6010B	448397
440-198876-72	AOC1-B4-D0.5	Total/NA	Solid	6010B	448397
440-198876-75	AOC1-B5-D0.5	Total/NA	Solid	6010B	448397
440-198876-78	AOC1-B8-D0.5	Total/NA	Solid	6010B	448397
440-198876-81	AOC1-B13-D0.5	Total/NA	Solid	6010B	448397
440-198876-84	AOC1-B94-D0.5	Total/NA	Solid	6010B	448397
440-198876-87	AOC1-B97-D0.5	Total/NA	Solid	6010B	448397
440-198876-90	AOC1-B96-D0.5	Total/NA	Solid	6010B	448397
440-198876-93	AOC1-B95-D0.5	Total/NA	Solid	6010B	448397
MB 440-448397/1-A ^5	Method Blank	Total/NA	Solid	6010B	448397
LCS 440-448397/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448397
440-198876-63 MS	AOC1-B3-D0.5	Total/NA	Solid	6010B	448397
440-198876-63 MSD	AOC1-B3-D0.5	Total/NA	Solid	6010B	448397

Analysis Batch: 448647

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-1	AOC1-B21-D0.5	Total/NA	Solid	6010B	448389
440-198876-4	AOC1-B21-D0.5DUP	Total/NA	Solid	6010B	448389
440-198876-5	AOC1-B18-D0.5	Total/NA	Solid	6010B	448389
440-198876-8	AOC1-B18-D0.5DUP	Total/NA	Solid	6010B	448389
440-198876-9	AOC1-B17-D0.5	Total/NA	Solid	6010B	448389
440-198876-13	AOC1-B16-D0.5	Total/NA	Solid	6010B	448389
440-198876-16	AOC1-B14-D0.5	Total/NA	Solid	6010B	448389
440-198876-19	AOC1-B28-D0.5	Total/NA	Solid	6010B	448389
440-198876-29	AOC1-B29-D0.5	Total/NA	Solid	6010B	448389
440-198876-32	AOC1-B26-D0.5	Total/NA	Solid	6010B	448389
440-198876-35	AOC1-B28-D0.5DUP	Total/NA	Solid	6010B	448389
440-198876-36	AOC1-B25-D0.5	Total/NA	Solid	6010B	448389
440-198876-39	AOC1-B24-D0.5	Total/NA	Solid	6010B	448389
440-198876-42	AOC1-B27-D0.5	Total/NA	Solid	6010B	448389
440-198876-45	AOC1-B23-D0.5	Total/NA	Solid	6010B	448389
440-198876-48	AOC1-B12-D0.5	Total/NA	Solid	6010B	448389
440-198876-51	AOC1-B11-D0.5	Total/NA	Solid	6010B	448389
440-198876-54	AOC1-B10-D0.5	Total/NA	Solid	6010B	448389
440-198876-57	AOC1-B9-D0.5	Total/NA	Solid	6010B	448389
440-198876-60	AOC1-B6-D0.5	Total/NA	Solid	6010B	448389
MB 440-448389/1-A ^5	Method Blank	Total/NA	Solid	6010B	448389
LCS 440-448389/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448389
440-198876-1 MS	AOC1-B21-D0.5	Total/NA	Solid	6010B	448389
440-198876-1 MSD	AOC1-B21-D0.5	Total/NA	Solid	6010B	448389

Prep Batch: 448713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-12	E122017	Total Recoverable	Water	3005A	
MB 440-448713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-448713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-198876-12 MS	E122017	Total Recoverable	Water	3005A	
440-198876-12 MSD	E122017	Total Recoverable	Water	3005A	

Metals (Continued)

Analysis Batch: 448882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-12	E122017	Total Recoverable	Water	6010B	448713
MB 440-448713/1-A	Method Blank	Total Recoverable	Water	6010B	448713
LCS 440-448713/2-A	Lab Control Sample	Total Recoverable	Water	6010B	448713
440-198876-12 MS	E122017	Total Recoverable	Water	6010B	448713
440-198876-12 MSD	E122017	Total Recoverable	Water	6010B	448713

Prep Batch: 448954

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-96	AOC1-B93-D0.5	Total/NA	Solid	3050B	
MB 440-448954/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448954/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198876-96 MS	AOC1-B93-D0.5	Total/NA	Solid	3050B	
440-198876-96 MSD	AOC1-B93-D0.5	Total/NA	Solid	3050B	

Analysis Batch: 449088

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-96	AOC1-B93-D0.5	Total/NA	Solid	6010B	448954
MB 440-448954/1-A ^5	Method Blank	Total/NA	Solid	6010B	448954
LCS 440-448954/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448954
440-198876-96 MS	AOC1-B93-D0.5	Total/NA	Solid	6010B	448954
440-198876-96 MSD	AOC1-B93-D0.5	Total/NA	Solid	6010B	448954

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Thursday, December 21, 2017 3:19 PM
To: Mata, Patty
Subject: FW: Reseda 2017-12-20 CoCs
Attachments: SKMBT_36317122116180.pdf

-External Email-

I just looked and realized my tech did not list OCPs on the equipment blank. Can you please add? This is for the samples collected yesterday (12/20).
Thanks
J

From: Paulson, Nenette
Sent: Wednesday, December 20, 2017 4:21 PM
To: King, Justin <Justin.King@parsons.com>
Subject: Reseda 2017-12-20 CoCs

Attached i believe I caught up on PCBs. I'll add on more tomorrow.

Sent from my Verizon, Samsung Galaxy smartphone

Mouton, Alain

From: King, Justin <Justin.King@parsons.com>
Sent: Wednesday, December 27, 2017 8:20 PM
To: Mouton, Alain
Cc: Mills, Ben; Mata, Patty
Subject: Re: COC Discrepancy for 440-198876-1 LAUSD Reseda H.S., CA

-External Email-

Confirmed, the samples should be dated 12/20/2017. Thanks, Justin

Sent from my iPhone

On Dec 27, 2017, at 4:40 PM, Mouton, Alain <alain.mouton@testamericainc.com> wrote:

> Hello,
>
> Attached please find the COC files for job 440-198876-1; LAUSD Reseda H.S., CA
>
> The following samples was received at the laboratory without a sample collection date documented on the chain of custody (Page 7): AOC1-B4-D0.5 (440-198876-72), AOC1-B4-D1.5 (440-198876-73), AOC1-B4-D2.5 (440-198876-74), AOC1-B5-D0.5 (440-198876-75), AOC1-B5-D1.5 (440-198876-76), AOC1-B5-D2.5 (440-198876-77), AOC1-B8-D0.5 (440-198876-78), AOC1-B8-D1.5 (440-198876-79), AOC1-B8-D2.5 (440-198876-80), AOC1-B13-D0.5 (440-198876-81) and AOC1-B13-D1.5 (440-198876-82). Samples were logged in with the date of collection on 12/20/17. Could you please confirm the date of collection for these samples?
>
> Please feel free to contact me or your PM Patty Mata if you have any questions.
>
> Thank you.
>
> Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]
>
> **ALAIN MOUTON**
> Project Manager Assistant
>
> TestAmerica Irvine
> THE LEADER IN ENVIRONMENTAL TESTING
>
> Tel: 949.261,1022
>
> Reference: [419168]
> Attachments: 2
>
> <440-198876-email-add OCPs to EB.pdf>

1

<COC 440-198876 (201712211507).pdf>

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 12 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B21-D0.5	12/20/17	0720	G	S	1			X	X	X		
AOC1-B21-D1.5	12/20/17	0725	G	S	1							Hold
AOC1-B21-D2.5	12/20/17	0730	G	S	1							Hold
AOC1-B21-D0.5-Dup	12/20/17	0720	G	S	1			X	X	X		
AOC1-B18-D0.5	12/20/17	0735	G	S	1			X	X	X		
AOC1-B18-D1.5	12/20/17	0740	G	S	1							Hold
AOC1-B18-D2.5	12/20/17	0745	G	S	1							Hold
AOC1-B18-D0.5-Dup	12/20/17	0735	G	S	1			X	X	X		
AOC1-B17-D0.5	12/20/17	0730	G	S	1			X	X	X		
AOC1-B17-D1.5	12/20/17	0735	G	S	1							Hold
AOC1-B17-D2.5	12/20/17	0750	G	S	1							Hold
EB12017	12/20/17	0700	G	S	4			X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by

440-198876 Chain of Custody

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1430	Received by:	Company: TA	Date/Time: 12/20/17 1430
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 43 of 52

12/21/2017

1.4/2.0 2.1/2.7

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B16-D0.5	12/20/17	0805	G	S	1			X	X	X AN		
AOC1-B16-D1.5	12/20/17	0810	G	S	1							Hold
AOC1-B16-D2.5	12/20/17	0815	G	S	1							Hold
AOC1-B14-D0.5	12/20/17	0820	G	S	1			X	X			
AOC1-B14-D1.5	12/20/17	0825	G	S	1							Hold
AOC1-B14-D2.5	12/20/17	0830	G	S	1							
AOC1-B28-D0.5	12/20/17	0835	G	S	1			X	X	X		
AOC1-B28-D1.5	12/20/17	0840	G	S	1							Hold
AOC1-B28-D2.5	12/20/17	0845	G	S	1					X MW		Hold
AOC2-B2-D0.5	12/20/17	0850	G	S	1					X		
AOC2-B2-D1.5	12/20/17	0855	G	S	1							Hold
AOC2-B2-D2.5	12/20/17	0900	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TAI	Date/Time: 12/20/17 1450
Relinquished by:	Company: TAI	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

12/29/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC2-B1-D0.5	12/20/17	0905	G	S	1					X		
AOC2-B1-D1.5	12/20/17	0910	G	S	1					X		Hold
AOC2-B1-D2.5	12/20/17	0915	G	S	1							Hold
AOC2-B1-D0.5-Dup	12/20/17	0905	G	S	1					X		
AOC1-B29-D0.5	12/20/17	0910	G	S	1			X	X			
AOC1-B29-D1.5	12/20/17	0915	G	S	1							Hold
AOC1-B29-D2.5	12/20/17	0920	G	S	1							Hold
AOC1-B26-D0.5	12/20/17	0925	G	S	1			X	X			
AOC1-B26-D1.5	12/20/17	0930	G	S	1							Hold
AOC1-B26-D2.5	12/20/17	0935	G	S	1							Hold
AOC1-B28-D0.5-Dup	12/20/17	0835	G	S	1			X	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450	
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B25-D0.5	12/20/17	0940	G	S	1			X	X	X		
AOC1-B25-D1.5	12/20/17	0945	G	S	1							H.Id
AOC1-B25-D2.5	12/20/17	0950	G	S	1							H.Id
AOC1-B24-D0.5	12/20/17	0955	G	S	1			X	X			
AOC1-B24-D1.5	12/20/17	1000	G	S	1							H.Id
AOC1-B24-D2.5	12/20/17	1005	G	S	1							H.Id
AOC1-B27-D0.5	12/20/17	1010	G	S	1			X	X			
AOC1-B27-D1.5	12/20/17	1015	G	S	1							H.Id
AOC1-B27-D2.5	12/20/17	1020	G	S	1							H.Id
AOC1-B23-D0.5	12/20/17	1025	G	S	1			X	X			
AOC1-B23-D1.5	12/20/17	1030	G	S	1							H.Id
AOC1-B23-D2.5	12/20/17	1035	G	S	1							H.Id

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: T-7	Date/Time: 12/20/17 1450
Relinquished by:	Company: TAI	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B12-D0.5	12/20/17	1040	G	S	1			X	X	X		
AOC1-B12-D1.5	12/20/17	1045	G	S	1							Hold
AOC1-B12-D2.5	12/20/17	1050	G	S	1							Hold
AOC1-B11-D0.5	12/20/17	1055	G	S	1			X	X			
AOC1-B11-D1.5	12/20/17	1100	G	S	1							Hold
AOC1-B11-D2.5	12/20/17	1105	G	S	1							Hold
AOC1-B10-D0.5	12/20/17	1110	G	S	1			X	X			
AOC1-B10-D1.5	12/20/17	1115	G	S	1							Hold
AOC1-B10-D2.5	12/20/17	1120	G	S	1							Hold
AOC1-B9-D0.5	12/20/17	1125	G	S	1			X	X			
AOC1-B9-D1.5	12/20/17	1130	G	S	1							Hold
AOC1-B9-D2.5	12/20/17	1135	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: PBS	Date/Time: 12/20/17 1400	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AoC1-B6-D0.5	12/20/17	1140	G	S	1			X	X			
AoC1-B6-D1.5	12/20/17	1145	G	S	1							Hold
AoC1-B6-D2.5	12/20/17	1150	G	S	1							Hold
AoC1-B3-D0.5	12/20/17	1155	G	S	1			X	X			
AoC1-B3-D1.5	12/20/17	1200	G	S	1							Hold
AoC1-B3-D2.5	12/20/17	1205	G	S	1							Hold
AoC1-B2-D0.5	12/20/17	1210	G	S	1			X	X			
AoC1-B2-D1.5	12/20/17	1215	G	S	1							Hold
AoC1-B2-D2.5	12/20/17	1220	G	S	1							Hold
AoC1-B1-D0.5	12/20/17	1225	G	S	1			X	X			
AoC1-B1-D1.5	12/20/17	1230	G	S	1							Hold
AoC1-B1-D2.5	12/20/17	1235	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1400	Received by:	Company: TA	Date/Time: 12/20/17 1400
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B4-D0.5		1240	G	S	1			X	X			
AOC1-B4-D1.5		1245	G	S	1							Hold
AOC1-B4-D2.5		1250	G	S	1							Hold
AOC1-B5-D0.5		1255	G	S	1			X	X			
AOC1-B5-D1.5		1300	G	S	1							Hold
AOC1-B5-D2.5		1305	G	S	1							Hold
AOC1-B8-D0.5		1310	G	S	1			X	X			
AOC1-B8-D1.5		1315	G	S	1							Hold
AOC1-B8-D2.5		1320	G	S	1							Hold
AOC1-B13-D0.5		1325	G	S	1			X	X			
AOC1-B13-D1.5		1330	G	S	1							Hold
AOC1-B13-D2.5		1335	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____	
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17	1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17	1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B94-D0.5	12/20/17	1340	G	S	1			X	X			
AOC1-B94-D1.5	12/20/17	1345	G	S	1							Hold
AOC1-B94-D2.5	12/20/17	1350	G	S	1							Hold
AOC1-B97-D0.5	12/20/17	1355	G	S	1			X	X			
AOC1-B97-D1.5	12/20/17	1400	G	S	1							Hold
AOC1-B97-D2.5	12/20/17	1405	G	S	1							Hold
AOC1-B96-D0.5	12/20/17	1410	G	S	1			X	X			
AOC1-B96-D1.5	12/20/17	1415	G	S	1							Hold
AOC1-B96-D2.5	12/20/17	1420	G	S	1							Hold
AOC1-B95-D0.5	12/20/17	1425	G	S	1			X	X	X		
AOC1-B95-D1.5	12/20/17	1430	G	S	1							Hold
AOC1-B95-D2.5	12/20/17	1435	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: 1480 | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/20/17 1450	Received by:	TA	12/20/17 1450
Relinquished by:	TA	12/20/17 1825	Received by:		
Relinquished by:			Received in Laboratory by:	TA	12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B93-D0.5	12/20/17	1440	G	S	1			X	X			
AOC1-B93-D1.5	12/20/17	1445	G	S	1							Hold
AOC1-B93-D2.5	12/20/17	1450	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198876-1

Login Number: 198876

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date on page 7of10 of COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date page 7 of 10 of COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199093-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 11:59:28 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
Surrogate Summary 14
Method Summary 15
Lab Chronicle 16
QC Sample Results 21
QC Association Summary 27
Definitions/Glossary 30
Certification Summary 31
Chain of Custody 32
Receipt Checklists 38

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199093-1	AOC1-B90-D0.5	Solid	12/21/17 07:20	12/21/17 19:12
440-199093-4	AOC1-B91-D0.5	Solid	12/21/17 07:35	12/21/17 19:12
440-199093-7	AOC1-B92-D0.5	Solid	12/21/17 07:50	12/21/17 19:12
440-199093-10	AOC1-B98-D0.5	Solid	12/21/17 08:05	12/21/17 19:12
440-199093-13	AOC1-B99-D0.5	Solid	12/21/17 08:20	12/21/17 19:12
440-199093-16	AOC1-B100-D0.5	Solid	12/21/17 08:35	12/21/17 19:12
440-199093-19	AOC1-B101-D0.5	Solid	12/21/17 08:50	12/21/17 19:12
440-199093-22	AOC1-B101-D0.5-DUP	Solid	12/21/17 08:50	12/21/17 19:12
440-199093-24	AOC1-B102-D0.5	Solid	12/21/17 09:05	12/21/17 19:12
440-199093-27	AOC1-B105-D0.5	Solid	12/21/17 09:20	12/21/17 19:12
440-199093-30	AOC1-B104-D0.5	Solid	12/21/17 09:35	12/21/17 19:12
440-199093-33	AOC1-B103-D0.5	Solid	12/21/17 09:50	12/21/17 19:12
440-199093-36	AOC1-B106-D0.5	Solid	12/21/17 10:05	12/21/17 19:12
440-199093-39	AOC1-B107-D0.5	Solid	12/21/17 10:20	12/21/17 19:12
440-199093-42	AOC1-B108-D0.5	Solid	12/21/17 10:35	12/21/17 19:12
440-199093-45	AOC1-B109-D0.5	Solid	12/21/17 10:50	12/21/17 19:12
440-199093-48	AOC1-B111-D0.5	Solid	12/21/17 11:05	12/21/17 19:12
440-199093-51	AOC1-B110-D0.5	Solid	12/21/17 11:20	12/21/17 19:12
440-199093-54	AOC1-B112-D0.5	Solid	12/21/17 11:35	12/21/17 19:12
440-199093-57	AOC1-B113-D0.5	Solid	12/21/17 11:50	12/21/17 19:12
440-199093-60	AOC1-B114-D0.5	Solid	12/21/17 12:05	12/21/17 19:12
440-199093-63	AOC1-B115-D0.5	Solid	12/21/17 12:20	12/21/17 19:12
440-199093-66	AOC1-B114-D0.5-DUP	Solid	12/21/17 12:05	12/21/17 19:12
440-199093-67	E122117	Water	12/21/17 07:00	12/21/17 19:12

Job ID: 440-199093-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199093-1

Comments
No additional comments.

Receipt
The samples were received on 12/21/2017 7:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 1.5º C.

Receipt Exceptions
The matrix for the following sample did not match the information listed on the Chain-of-Custody (COC): E122117 (440-199093-67). The matrix of sample listed on COC is solid but sample is water.

GC Semi VOA
Method(s) 8081A, 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448689. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C / 8081A / 8082: Slightly elevated reporting limits are provided for the following sample due to insufficient sample volume (less than 250ml) provided for preparation: E122117 (440-199093-67).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B90-D0.5 — Lab Sample ID: 440-199093-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.1		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-D0.5 — Lab Sample ID: 440-199093-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	61		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B92-D0.5 — Lab Sample ID: 440-199093-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	58		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B98-D0.5 — Lab Sample ID: 440-199093-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B99-D0.5 — Lab Sample ID: 440-199093-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	47		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-D0.5 — Lab Sample ID: 440-199093-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	83		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B101-D0.5 — Lab Sample ID: 440-199093-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B101-D0.5-DUP — Lab Sample ID: 440-199093-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B102-D0.5 — Lab Sample ID: 440-199093-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.2		2.0	0.99	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B105-D0.5 — Lab Sample ID: 440-199093-27

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B104-D0.5 — Lab Sample ID: 440-199093-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.1		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B103-D0.5 — Lab Sample ID: 440-199093-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	4.6		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B106-D0.5 — Lab Sample ID: 440-199093-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.2		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B107-D0.5 — Lab Sample ID: 440-199093-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.5		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-D0.5 — Lab Sample ID: 440-199093-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	110		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B109-D0.5 — Lab Sample ID: 440-199093-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.9		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B111-D0.5 — Lab Sample ID: 440-199093-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.6		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B110-D0.5 — Lab Sample ID: 440-199093-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.9		2.0	0.99	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B112-D0.5 — Lab Sample ID: 440-199093-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	9.3		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B113-D0.5 — Lab Sample ID: 440-199093-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	21		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B114-D0.5 — Lab Sample ID: 440-199093-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	12		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B115-D0.5 — Lab Sample ID: 440-199093-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	45		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B114-D0.5-DUP — Lab Sample ID: 440-199093-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	13		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: E122117 — Lab Sample ID: 440-199093-67

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B90-D0.5

Lab Sample ID: 440-199093-1

Date Collected: 12/21/17 07:20

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:09	5
Lead	9.1		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:09	5

Client Sample ID: AOC1-B91-D0.5

Lab Sample ID: 440-199093-4

Date Collected: 12/21/17 07:35

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:11	5
Lead	61		2.0	0.99	mg/Kg		12/23/17 12:57	12/26/17 17:11	5

Client Sample ID: AOC1-B92-D0.5

Lab Sample ID: 440-199093-7

Date Collected: 12/21/17 07:50

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:13	5
Lead	58		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:13	5

Client Sample ID: AOC1-B98-D0.5

Lab Sample ID: 440-199093-10

Date Collected: 12/21/17 08:05

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:15	5
Lead	7.6		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:15	5

Client Sample ID: AOC1-B99-D0.5

Lab Sample ID: 440-199093-13

Date Collected: 12/21/17 08:20

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:17	5
Lead	47		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:17	5

Client Sample ID: AOC1-B100-D0.5

Lab Sample ID: 440-199093-16

Date Collected: 12/21/17 08:35

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:25	5
Lead	83		2.0	0.99	mg/Kg		12/23/17 12:57	12/26/17 17:25	5

Client Sample ID: AOC1-B101-D0.5

Lab Sample ID: 440-199093-19

Date Collected: 12/21/17 08:50

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 14:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*12/28/17 08:57*	*12/29/17 14:07*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**7.0**		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:28	5
Lead	**6.0**		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:28	5

Client Sample ID: AOC1-B101-D0.5-DUP

Lab Sample ID: 440-199093-22

Date Collected: 12/21/17 08:50

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*12/28/17 06:47*	*12/29/17 13:27*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.7**		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:30	5
Lead	**6.0**		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:30	5

Client Sample ID: AOC1-B102-D0.5

Lab Sample ID: 440-199093-24

Date Collected: 12/21/17 09:05

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**5.1**		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:32	5
Lead	**8.2**		2.0	0.99	mg/Kg		12/23/17 12:57	12/26/17 17:32	5

Client Sample ID: AOC1-B105-D0.5 — **Lab Sample ID: 440-199093-27**
Date Collected: 12/21/17 09:20 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:34	5
Lead	7.0		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:34	5

Client Sample ID: AOC1-B104-D0.5 — **Lab Sample ID: 440-199093-30**
Date Collected: 12/21/17 09:35 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.0		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 17:36	5
Lead	7.1		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 17:36	5

Client Sample ID: AOC1-B103-D0.5 — **Lab Sample ID: 440-199093-33**
Date Collected: 12/21/17 09:50 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.8		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 18:54	5
Lead	4.6		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 18:54	5

Client Sample ID: AOC1-B106-D0.5 — **Lab Sample ID: 440-199093-36**
Date Collected: 12/21/17 10:05 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:04	5
Lead	6.2		2.0	1.0	mg/Kg		12/23/17 12:58	12/26/17 19:04	5

Client Sample ID: AOC1-B107-D0.5 — **Lab Sample ID: 440-199093-39**
Date Collected: 12/21/17 10:20 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:12	5
Lead	6.5		2.0	1.0	mg/Kg		12/23/17 12:58	12/26/17 19:12	5

Client Sample ID: AOC1-B108-D0.5 — **Lab Sample ID: 440-199093-42**
Date Collected: 12/21/17 10:35 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:14	5
Lead	110		2.0	1.0	mg/Kg		12/23/17 12:58	12/26/17 19:14	5

Client Sample ID: AOC1-B109-D0.5 — **Lab Sample ID: 440-199093-45**
Date Collected: 12/21/17 10:50 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:16	5
Lead	5.9		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:16	5

Client Sample ID: AOC1-B111-D0.5 — **Lab Sample ID: 440-199093-48**
Date Collected: 12/21/17 11:05 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:18	5
Lead	8.6		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:18	5

Client Sample ID: AOC1-B110-D0.5 — **Lab Sample ID: 440-199093-51**
Date Collected: 12/21/17 11:20 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:20	5
Lead	6.9		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:20	5

Client Sample ID: AOC1-B112-D0.5 — **Lab Sample ID: 440-199093-54**
Date Collected: 12/21/17 11:35 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:22	5
Lead	9.3		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:22	5

Client Sample ID: AOC1-B113-D0.5 — **Lab Sample ID: 440-199093-57**
Date Collected: 12/21/17 11:50 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:24	5
Lead	21		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:24	5

Client Sample ID: AOC1-B114-D0.5 — **Lab Sample ID: 440-199093-60**
Date Collected: 12/21/17 12:05 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B114-D0.5

Lab Sample ID: 440-199093-60

Date Collected: 12/21/17 12:05
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 08:57	12/29/17 13:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*45 - 120*	*12/28/17 08:57*	*12/29/17 13:54*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.9**		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:26	5
Lead	**12**		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:26	5

Client Sample ID: AOC1-B115-D0.5

Lab Sample ID: 440-199093-63

Date Collected: 12/21/17 12:20
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**9.6**		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:28	5
Lead	**45**		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 19:28	5

Client Sample ID: AOC1-B114-D0.5-DUP

Lab Sample ID: 440-199093-66

Date Collected: 12/21/17 12:05
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*12/28/17 06:47*	*12/29/17 13:40*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	**6.4**		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 19:52	5
Lead	**13**		2.0	1.0	mg/Kg		12/23/17 12:58	12/26/17 19:52	5

Client Sample ID: E122117

Lab Sample ID: 440-199093-67

Date Collected: 12/21/17 07:00
Matrix: Water
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
4,4'-DDE	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
4,4'-DDT	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Aldrin	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1

Client Sample ID: E122117
Date Collected: 12/21/17 07:00
Date Received: 12/21/17 19:12

Lab Sample ID: 440-199093-67
Matrix: Water

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
alpha-BHC	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
beta-BHC	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Chlordane (technical)	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:25	1
delta-BHC	ND		0.21	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Dieldrin	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endosulfan I	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endosulfan II	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endosulfan sulfate	ND		0.21	0.10	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endrin	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endrin aldehyde	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Endrin ketone	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
gamma-BHC (Lindane)	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Heptachlor	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Heptachlor epoxide	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Methoxychlor	ND		0.10	0.052	ug/L		12/27/17 06:21	12/27/17 14:25	1
Toxaphene	ND		5.2	2.6	ug/L		12/27/17 06:21	12/27/17 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*73*		*19 - 115*	*12/27/17 06:21*	*12/27/17 14:25*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*10 - 149*	*12/27/17 06:21*	*12/27/17 14:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1221	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1232	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1242	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1248	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1254	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1
Aroclor 1260	ND		1.0	0.52	ug/L		12/27/17 06:21	12/27/17 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*62*		*26 - 115*	*12/27/17 06:21*	*12/27/17 14:35*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/27/17 07:45	12/27/17 17:39	1
Lead	ND		0.0050	0.0038	mg/L		12/27/17 07:45	12/27/17 17:39	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(19-115)	(10-149)
440-199093-67	E122117	73	95
LCS 440-448689/2-A	Lab Control Sample	87	94
LCSD 440-448689/3-A	Lab Control Sample Dup	86	93
MB 440-448689/1-A	Method Blank	82	95

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-199024-G-1-F MS	Matrix Spike	85
440-199024-G-1-G MSD	Matrix Spike Duplicate	83
440-199093-19	AOC1-B101-D0.5	59
440-199093-22	AOC1-B101-D0.5-DUP	72
440-199093-60	AOC1-B114-D0.5	62
440-199093-66	AOC1-B114-D0.5-DUP	71
LCS 440-448949/2-A	Lab Control Sample	81
MB 440-448949/1-A	Method Blank	88

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(26-115)
440-199093-67	E122117	62
LCS 440-448689/4-A	Lab Control Sample	73
LCSD 440-448689/5-A	Lab Control Sample Dup	81
MB 440-448689/1-A	Method Blank	73

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B90-D0.5

Lab Sample ID: 440-199093-1

Date Collected: 12/21/17 07:20

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:09	K1E	TAL IRV

Client Sample ID: AOC1-B91-D0.5

Lab Sample ID: 440-199093-4

Date Collected: 12/21/17 07:35

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:11	K1E	TAL IRV

Client Sample ID: AOC1-B92-D0.5

Lab Sample ID: 440-199093-7

Date Collected: 12/21/17 07:50

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:13	K1E	TAL IRV

Client Sample ID: AOC1-B98-D0.5

Lab Sample ID: 440-199093-10

Date Collected: 12/21/17 08:05

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:15	K1E	TAL IRV

Client Sample ID: AOC1-B99-D0.5

Lab Sample ID: 440-199093-13

Date Collected: 12/21/17 08:20

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:17	K1E	TAL IRV

Client Sample ID: AOC1-B100-D0.5

Lab Sample ID: 440-199093-16

Date Collected: 12/21/17 08:35

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:25	K1E	TAL IRV

Client Sample ID: AOC1-B101-D0.5

Lab Sample ID: 440-199093-19

Date Collected: 12/21/17 08:50

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.05 g	2 mL	448949	12/28/17 08:57	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 14:07	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:28	K1E	TAL IRV

Client Sample ID: AOC1-B101-D0.5-DUP

Lab Sample ID: 440-199093-22

Date Collected: 12/21/17 08:50

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	448949	12/28/17 06:47	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 13:27	JM	TAL IRV
Total/NA	Prep	3050B			2.00 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:30	K1E	TAL IRV

Client Sample ID: AOC1-B102-D0.5

Lab Sample ID: 440-199093-24

Date Collected: 12/21/17 09:05

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:32	K1E	TAL IRV

Client Sample ID: AOC1-B105-D0.5

Lab Sample ID: 440-199093-27

Date Collected: 12/21/17 09:20

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:34	K1E	TAL IRV

Client Sample ID: AOC1-B104-D0.5

Lab Sample ID: 440-199093-30

Date Collected: 12/21/17 09:35

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448495	12/23/17 12:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			448648	12/26/17 17:36	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B103-D0.5

Lab Sample ID: 440-199093-33

Date Collected: 12/21/17 09:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 18:54	K1E	TAL IRV

Client Sample ID: AOC1-B106-D0.5

Lab Sample ID: 440-199093-36

Date Collected: 12/21/17 10:05
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:04	K1E	TAL IRV

Client Sample ID: AOC1-B107-D0.5

Lab Sample ID: 440-199093-39

Date Collected: 12/21/17 10:20
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:12	K1E	TAL IRV

Client Sample ID: AOC1-B108-D0.5

Lab Sample ID: 440-199093-42

Date Collected: 12/21/17 10:35
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:14	K1E	TAL IRV

Client Sample ID: AOC1-B109-D0.5

Lab Sample ID: 440-199093-45

Date Collected: 12/21/17 10:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:16	K1E	TAL IRV

Client Sample ID: AOC1-B111-D0.5

Lab Sample ID: 440-199093-48

Date Collected: 12/21/17 11:05
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:18	K1E	TAL IRV

Client Sample ID: AOC1-B110-D0.5 — **Lab Sample ID: 440-199093-51**
Date Collected: 12/21/17 11:20 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:20	K1E	TAL IRV

Client Sample ID: AOC1-B112-D0.5 — **Lab Sample ID: 440-199093-54**
Date Collected: 12/21/17 11:35 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:22	K1E	TAL IRV

Client Sample ID: AOC1-B113-D0.5 — **Lab Sample ID: 440-199093-57**
Date Collected: 12/21/17 11:50 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:24	K1E	TAL IRV

Client Sample ID: AOC1-B114-D0.5 — **Lab Sample ID: 440-199093-60**
Date Collected: 12/21/17 12:05 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	448949	12/28/17 08:57	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 13:54	JM	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:26	K1E	TAL IRV

Client Sample ID: AOC1-B115-D0.5 — **Lab Sample ID: 440-199093-63**
Date Collected: 12/21/17 12:20 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:28	K1E	TAL IRV

Client Sample ID: AOC1-B114-D0.5-DUP — **Lab Sample ID: 440-199093-66**
Date Collected: 12/21/17 12:05 — **Matrix: Solid**
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	448949	12/28/17 06:47	L1A	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Client Sample ID: AOC1-B114-D0.5-DUP

Lab Sample ID: 440-199093-66

Date Collected: 12/21/17 12:05
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8082		1			449223	12/29/17 13:40	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	448496	12/23/17 12:58	DT	TAL IRV
Total/NA	Analysis	6010B		5			448661	12/26/17 19:52	K1E	TAL IRV

Client Sample ID: E122117

Lab Sample ID: 440-199093-67

Date Collected: 12/21/17 07:00
Matrix: Water
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			240 mL	2 mL	448689	12/27/17 06:21	L2A	TAL IRV
Total/NA	Analysis	8081A		1			448716	12/27/17 14:25	D1D	TAL IRV
Total/NA	Prep	3510C			240 mL	2 mL	448689	12/27/17 06:21	L2A	TAL IRV
Total/NA	Analysis	8082		1			448718	12/27/17 14:35	JM	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	448713	12/27/17 07:45	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			448882	12/27/17 17:39	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-448689/1-A
Matrix: Water
Analysis Batch: 448716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
4,4'-DDE	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
4,4'-DDT	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Aldrin	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
alpha-BHC	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
beta-BHC	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Chlordane (technical)	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:41	1
delta-BHC	ND		0.20	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Dieldrin	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endosulfan I	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endosulfan II	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endosulfan sulfate	ND		0.20	0.10	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endrin	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endrin aldehyde	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Endrin ketone	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
gamma-BHC (Lindane)	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Heptachlor	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Heptachlor epoxide	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Methoxychlor	ND		0.10	0.050	ug/L		12/27/17 06:21	12/27/17 13:41	1
Toxaphene	ND		5.0	2.5	ug/L		12/27/17 06:21	12/27/17 13:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*82*		*19 - 115*	*12/27/17 06:21*	*12/27/17 13:41*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*10 - 149*	*12/27/17 06:21*	*12/27/17 13:41*	*1*

Lab Sample ID: LCS 440-448689/2-A
Matrix: Water
Analysis Batch: 448716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	0.400	0.412		ug/L		103	63 - 141
4,4'-DDE	0.400	0.383		ug/L		96	44 - 135
4,4'-DDT	0.400	0.423		ug/L		106	51 - 125
Aldrin	0.400	0.359		ug/L		90	26 - 115
alpha-BHC	0.400	0.346		ug/L		87	57 - 115
beta-BHC	0.400	0.400		ug/L		100	57 - 115
delta-BHC	0.400	0.381		ug/L		95	47 - 122
Dieldrin	0.400	0.401		ug/L		100	57 - 115
Endosulfan I	0.400	0.385		ug/L		96	54 - 115
Endosulfan II	0.400	0.385		ug/L		96	45 - 122
Endosulfan sulfate	0.400	0.402		ug/L		100	56 - 115
Endrin	0.400	0.379		ug/L		95	64 - 115
Endrin aldehyde	0.400	0.375		ug/L		94	39 - 121
Endrin ketone	0.400	0.408		ug/L		102	34 - 150
gamma-BHC (Lindane)	0.400	0.354		ug/L		89	59 - 115
Heptachlor	0.400	0.324		ug/L		81	44 - 120
Heptachlor epoxide	0.400	0.382		ug/L		95	57 - 115
Methoxychlor	0.400	0.434		ug/L		108	44 - 150

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	87		19 - 115
DCB Decachlorobiphenyl (Surr)	94		10 - 149

Lab Sample ID: LCSD 440-448689/3-A
Matrix: Water
Analysis Batch: 448716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD			0.400	0.411		ug/L		103	63 - 141	0	27
4,4'-DDE			0.400	0.365		ug/L		91	44 - 135	5	35
4,4'-DDT			0.400	0.421		ug/L		105	51 - 125	1	32
Aldrin			0.400	0.356		ug/L		89	26 - 115	1	25
alpha-BHC			0.400	0.344		ug/L		86	57 - 115	1	19
beta-BHC			0.400	0.391		ug/L		98	57 - 115	2	26
delta-BHC			0.400	0.362		ug/L		90	47 - 122	5	20
Dieldrin			0.400	0.389		ug/L		97	57 - 115	3	22
Endosulfan I			0.400	0.382		ug/L		95	54 - 115	1	20
Endosulfan II			0.400	0.382		ug/L		96	45 - 122	1	35
Endosulfan sulfate			0.400	0.401		ug/L		100	56 - 115	0	22
Endrin			0.400	0.377		ug/L		94	64 - 115	1	23
Endrin aldehyde			0.400	0.373		ug/L		93	39 - 121	0	30
Endrin ketone			0.400	0.403		ug/L		101	34 - 150	1	27
gamma-BHC (Lindane)			0.400	0.333		ug/L		83	59 - 115	6	17
Heptachlor			0.400	0.342		ug/L		85	44 - 120	5	24
Heptachlor epoxide			0.400	0.376		ug/L		94	57 - 115	1	23
Methoxychlor			0.400	0.431		ug/L		108	44 - 150	1	35

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene	86		19 - 115
DCB Decachlorobiphenyl (Surr)	93		10 - 149

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-448689/1-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	73		26 - 115	12/27/17 06:21	12/27/17 13:56	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCS 440-448689/4-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448689

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	3.66		ug/L		91	59 - 115
Aroclor 1260	4.00	3.55		ug/L		89	48 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*

Lab Sample ID: LCSD 440-448689/5-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448689

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	4.00	3.70		ug/L		92	59 - 115	1	30
Aroclor 1260	4.00	3.74		ug/L		94	48 - 115	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*26 - 115*

Lab Sample ID: MB 440-448949/1-A
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*	*12/28/17 06:47*	*12/29/17 11:40*	*1*

Lab Sample ID: LCS 440-448949/2-A
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	260		ug/Kg		97	65 - 115
Aroclor 1260	267	265		ug/Kg		99	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-199024-G-1-F MS
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		267	253		ug/Kg		95	50 - 120
Aroclor 1260	ND		267	264		ug/Kg		99	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*

Lab Sample ID: 440-199024-G-1-G MSD
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		267	245		ug/Kg		92	50 - 120	5	30
Aroclor 1260	ND		267	254		ug/Kg		95	50 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448495/1-A ^5
Matrix: Solid
Analysis Batch: 448648

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448495

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/23/17 12:57	12/26/17 16:33	5
Lead	ND		2.0	1.0	mg/Kg		12/23/17 12:57	12/26/17 16:33	5

Lab Sample ID: LCS 440-448495/2-A ^5
Matrix: Solid
Analysis Batch: 448648

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448495

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.3	47.5		mg/Kg		97	80 - 120
Lead	49.3	47.7		mg/Kg		97	80 - 120

Lab Sample ID: 440-199034-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 448648

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448495

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	4.2		50.0	54.2		mg/Kg		100	75 - 125
Lead	4.7		50.0	51.6		mg/Kg		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-199034-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 448648

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448495

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	4.2		49.3	51.7		mg/Kg		96	75 - 125	5	20
Lead	4.7		49.3	49.6		mg/Kg		91	75 - 125	4	20

Lab Sample ID: MB 440-448496/1-A ^5
Matrix: Solid
Analysis Batch: 448661

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448496

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		12/23/17 12:58	12/26/17 18:49	5
Lead	ND		2.0	0.99	mg/Kg		12/23/17 12:58	12/26/17 18:49	5

Lab Sample ID: LCS 440-448496/2-A ^5
Matrix: Solid
Analysis Batch: 448661

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448496

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	48.6		mg/Kg		98	80 - 120
Lead	49.8	48.9		mg/Kg		98	80 - 120

Lab Sample ID: 440-199093-33 MS
Matrix: Solid
Analysis Batch: 448661

Client Sample ID: AOC1-B103-D0.5
Prep Type: Total/NA
Prep Batch: 448496

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.8		49.8	50.3		mg/Kg		93	75 - 125
Lead	4.6		49.8	49.3		mg/Kg		90	75 - 125

Lab Sample ID: 440-199093-33 MSD
Matrix: Solid
Analysis Batch: 448661

Client Sample ID: AOC1-B103-D0.5
Prep Type: Total/NA
Prep Batch: 448496

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.8		49.3	49.8		mg/Kg		93	75 - 125	1	20
Lead	4.6		49.3	49.1		mg/Kg		90	75 - 125	1	20

Lab Sample ID: MB 440-448713/1-A
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		12/27/17 07:45	12/27/17 17:15	1
Lead	ND		0.0050	0.0038	mg/L		12/27/17 07:45	12/27/17 17:15	1

Lab Sample ID: LCS 440-448713/2-A
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.879		mg/L		88	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-448713/2-A
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			1.00	0.874		mg/L		87	80 - 120		

Lab Sample ID: 440-198876-D-12-B MS
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	ND		1.00	0.921		mg/L		92	75 - 125		
Lead	ND		1.00	0.911		mg/L		91	75 - 125		

Lab Sample ID: 440-198876-D-12-C MSD
Matrix: Water
Analysis Batch: 448882

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 448713

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	0.891		mg/L		89	75 - 125	3	20
Lead	ND		1.00	0.884		mg/L		88	75 - 125	3	20

GC Semi VOA

Prep Batch: 448689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-67	E122117	Total/NA	Water	3510C	
MB 440-448689/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448689/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448689/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 448716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-67	E122117	Total/NA	Water	8081A	448689
MB 440-448689/1-A	Method Blank	Total/NA	Water	8081A	448689
LCS 440-448689/2-A	Lab Control Sample	Total/NA	Water	8081A	448689
LCSD 440-448689/3-A	Lab Control Sample Dup	Total/NA	Water	8081A	448689

Analysis Batch: 448718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-67	E122117	Total/NA	Water	8082	448689
MB 440-448689/1-A	Method Blank	Total/NA	Water	8082	448689
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	8082	448689
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	8082	448689

Prep Batch: 448949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-19	AOC1-B101-D0.5	Total/NA	Solid	3546	
440-199093-22	AOC1-B101-D0.5-DUP	Total/NA	Solid	3546	
440-199093-60	AOC1-B114-D0.5	Total/NA	Solid	3546	
440-199093-66	AOC1-B114-D0.5-DUP	Total/NA	Solid	3546	
MB 440-448949/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-448949/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199024-G-1-F MS	Matrix Spike	Total/NA	Solid	3546	
440-199024-G-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-19	AOC1-B101-D0.5	Total/NA	Solid	8082	448949
440-199093-22	AOC1-B101-D0.5-DUP	Total/NA	Solid	8082	448949
440-199093-60	AOC1-B114-D0.5	Total/NA	Solid	8082	448949
440-199093-66	AOC1-B114-D0.5-DUP	Total/NA	Solid	8082	448949
MB 440-448949/1-A	Method Blank	Total/NA	Solid	8082	448949
LCS 440-448949/2-A	Lab Control Sample	Total/NA	Solid	8082	448949
440-199024-G-1-F MS	Matrix Spike	Total/NA	Solid	8082	448949
440-199024-G-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	448949

Metals

Prep Batch: 448495

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-1	AOC1-B90-D0.5	Total/NA	Solid	3050B	
440-199093-4	AOC1-B91-D0.5	Total/NA	Solid	3050B	
440-199093-7	AOC1-B92-D0.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 448495 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-10	AOC1-B98-D0.5	Total/NA	Solid	3050B	
440-199093-13	AOC1-B99-D0.5	Total/NA	Solid	3050B	
440-199093-16	AOC1-B100-D0.5	Total/NA	Solid	3050B	
440-199093-19	AOC1-B101-D0.5	Total/NA	Solid	3050B	
440-199093-22	AOC1-B101-D0.5-DUP	Total/NA	Solid	3050B	
440-199093-24	AOC1-B102-D0.5	Total/NA	Solid	3050B	
440-199093-27	AOC1-B105-D0.5	Total/NA	Solid	3050B	
440-199093-30	AOC1-B104-D0.5	Total/NA	Solid	3050B	
MB 440-448495/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448495/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-199034-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-199034-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 448496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-33	AOC1-B103-D0.5	Total/NA	Solid	3050B	
440-199093-36	AOC1-B106-D0.5	Total/NA	Solid	3050B	
440-199093-39	AOC1-B107-D0.5	Total/NA	Solid	3050B	
440-199093-42	AOC1-B108-D0.5	Total/NA	Solid	3050B	
440-199093-45	AOC1-B109-D0.5	Total/NA	Solid	3050B	
440-199093-48	AOC1-B111-D0.5	Total/NA	Solid	3050B	
440-199093-51	AOC1-B110-D0.5	Total/NA	Solid	3050B	
440-199093-54	AOC1-B112-D0.5	Total/NA	Solid	3050B	
440-199093-57	AOC1-B113-D0.5	Total/NA	Solid	3050B	
440-199093-60	AOC1-B114-D0.5	Total/NA	Solid	3050B	
440-199093-63	AOC1-B115-D0.5	Total/NA	Solid	3050B	
440-199093-66	AOC1-B114-D0.5-DUP	Total/NA	Solid	3050B	
MB 440-448496/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448496/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-199093-33 MS	AOC1-B103-D0.5	Total/NA	Solid	3050B	
440-199093-33 MSD	AOC1-B103-D0.5	Total/NA	Solid	3050B	

Analysis Batch: 448648

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-1	AOC1-B90-D0.5	Total/NA	Solid	6010B	448495
440-199093-4	AOC1-B91-D0.5	Total/NA	Solid	6010B	448495
440-199093-7	AOC1-B92-D0.5	Total/NA	Solid	6010B	448495
440-199093-10	AOC1-B98-D0.5	Total/NA	Solid	6010B	448495
440-199093-13	AOC1-B99-D0.5	Total/NA	Solid	6010B	448495
440-199093-16	AOC1-B100-D0.5	Total/NA	Solid	6010B	448495
440-199093-19	AOC1-B101-D0.5	Total/NA	Solid	6010B	448495
440-199093-22	AOC1-B101-D0.5-DUP	Total/NA	Solid	6010B	448495
440-199093-24	AOC1-B102-D0.5	Total/NA	Solid	6010B	448495
440-199093-27	AOC1-B105-D0.5	Total/NA	Solid	6010B	448495
440-199093-30	AOC1-B104-D0.5	Total/NA	Solid	6010B	448495
MB 440-448495/1-A ^5	Method Blank	Total/NA	Solid	6010B	448495
LCS 440-448495/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448495
440-199034-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	448495
440-199034-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	448495

Metals (Continued)

Analysis Batch: 448661

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-33	AOC1-B103-D0.5	Total/NA	Solid	6010B	448496
440-199093-36	AOC1-B106-D0.5	Total/NA	Solid	6010B	448496
440-199093-39	AOC1-B107-D0.5	Total/NA	Solid	6010B	448496
440-199093-42	AOC1-B108-D0.5	Total/NA	Solid	6010B	448496
440-199093-45	AOC1-B109-D0.5	Total/NA	Solid	6010B	448496
440-199093-48	AOC1-B111-D0.5	Total/NA	Solid	6010B	448496
440-199093-51	AOC1-B110-D0.5	Total/NA	Solid	6010B	448496
440-199093-54	AOC1-B112-D0.5	Total/NA	Solid	6010B	448496
440-199093-57	AOC1-B113-D0.5	Total/NA	Solid	6010B	448496
440-199093-60	AOC1-B114-D0.5	Total/NA	Solid	6010B	448496
440-199093-63	AOC1-B115-D0.5	Total/NA	Solid	6010B	448496
440-199093-66	AOC1-B114-D0.5-DUP	Total/NA	Solid	6010B	448496
MB 440-448496/1-A ^5	Method Blank	Total/NA	Solid	6010B	448496
LCS 440-448496/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448496
440-199093-33 MS	AOC1-B103-D0.5	Total/NA	Solid	6010B	448496
440-199093-33 MSD	AOC1-B103-D0.5	Total/NA	Solid	6010B	448496

Prep Batch: 448713

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-67	E122117	Total Recoverable	Water	3005A	
MB 440-448713/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-448713/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-198876-D-12-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-198876-D-12-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 448882

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-67	E122117	Total Recoverable	Water	6010B	448713
MB 440-448713/1-A	Method Blank	Total Recoverable	Water	6010B	448713
LCS 440-448713/2-A	Lab Control Sample	Total Recoverable	Water	6010B	448713
440-198876-D-12-B MS	Matrix Spike	Total Recoverable	Water	6010B	448713
440-198876-D-12-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	448713

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B90-D0.5	12/21/17	0720	G	S	1			X	X			
AOC1-B90-D1.5	12/21/17	0725	G	S	1							Hold
AOC1-B90-D2.5	12/21/17	0730	G	S	1							Hold
AOC1-B91-D0.5	12/21/17	0735	G	S	1			X	X			
AOC1-B91-D1.5	12/21/17	0740	G	S	1							Hold
AOC1-B91-D2.5	12/21/17	0745	G	S	1							Hold
AOC1-B92-D0.5	12/21/17	0750	G	S	1			X	X			
AOC1-B92-D1.5	12/21/17	0755	G	S	1							Hold
AOC1-B92-D2.5	12/21/17	0800	G	S	1							Hold
AOC1-B98-D0.5	12/21/17	0805	G	S	1			X	X			
AOC1-B98-D1.5	12/21/17	0810	G	S	1							Hold
AOC1-B98-D2.5	12/21/17	0815	G	S	1							Hold

440-199093 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/21/17	Received by:	TAL	12-21-17 1639
Relinquished by:	TAL	12-21-17 19:12	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/21/17 1912

TA-05 1.6/1.5 .5/.4

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

12/30/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1 - B99 - D0.5	12/21/17	0820	G	S	1			X	X			
AOC1 - B99 - D1.5	12/21/17	0825	G	S	1							Hold
AOC1 - B99 - D2.5	12/21/17	0830	G	S	1							Hold
AOC1 - B100 - D0.5	12/21/17	0835	G	S	1			X	X			
AOC1 - B100 - D1.5	12/21/17	0840	G	S	1							Hold
AOC1 - B100 - D2.5	12/21/17	0845	G	S	1							Hold
AOC1 - B101 - D0.5	12/21/17	0850	G	S	1			X	X	X		
AOC1 - B101 - D1.5	12/21/17	0855	G	S	1							Hold
AOC1 - B101 - D2.5	12/21/17	0900	G	S	1							Hold
AOC1 - B101 - D0.5 - Dup	12/21/17	0850	G	S	1			X	X	X		
EQ12/21/17	12/21/17	0700	G	S	4			X	X	X	X	Equipment Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: PARSONS	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 PM	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1412

IA-DS 1.6/1.5 5/1.4

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

12/30/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B102-D0.5	12/21/17	0905	G	S	1			X	X			
AOC1-B102-D1.5	12/21/17	0910	G	S	1							Hold
AOC1-B102-D2.5	12/21/17	0915	G	S	1							Hold
AOC1-B105-D0.5	12/21/17	0920	G	S	1			X	X			
AOC1-B105-D1.5	12/21/17	0925	G	S	1							Hold
AOC1-B105-D2.5	12/21/17	0930	G	S	1							Hold
AOC1-B104-D0.5	12/21/17	0935	G	S	1			X	X			
AOC1-B104-D1.5	12/21/17	0940	G	S	1							Hold
AOC1-B104-D2.5	12/21/17	0945	G	S	1							Hold
AOC1-B103-D0.5	12/21/17	0950	G	S	1			X	X			
AOC1-B103-D1.5	12/21/17	0955	G	S	1							Hold
AOC1-B103-D1.5	12/21/17	1000	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 1912	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1912

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

IR-85 1.6/1.5 5/.4

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B106-D0.5	12/21/17	1005	G	S	1			X	X			
AOC1-B106-D1.5	12/21/17	1010	G	S	1							Hold
AOC1-B106-D2.5	12/21/17	1015	G	S	1							Hold
AOC1-B107-D0.5	12/21/17	1020	G	S	1			X	X			
AOC1-B107-D1.5	12/21/17	1025	G	S	1							Hold
AOC1-B107-D2.5	12/21/17	1030	G	S	1							Hold
AOC1-B108-D0.5	12/21/17	1035	G	S	1			X	X			
AOC1-B108-D1.5	12/21/17	1040	G	S	1							Hold
AOC1-B108-D2.5	12/21/17	1045	G	S	1							Hold
AOC1-B109-D0.5	12/21/17	1050	G	S	1			X	X			
AOC1-B109-D1.5	12/21/17	1055	G	S	1							Hold
AOC1-B109-D2.5	12/21/17	1100	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 1942	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/21/17 19R

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TA-DS 1.6/1.5 .5/.4

12/30/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B111-0.5	12/21/17	1105	G	S	1			X	X			
AOC1-B111-1.5	12/21/17	1110	G	S	1							Hold
AOC1-B111-2.5	12/21/17	1115	G	S	1							Hold
AOC1-B110-0.5	12/21/17	1120	G	S	1			X	X			
AOC1-B110-1.5	12/21/17	1125	G	S	1							Hold
AOC1-B110-2.5	12/21/17	1130	G	S	1							Hold
AOC1-B112-0.5	12/21/17	1135	G	S	1			X	X			
AOC1-B112-1.5	12/21/17	1140	G	S	1							Hold
AOC1-B112-2.5	12/21/17	1145	G	S	1							Hold
AOC1-B113-0.5	12/21/17	1150	G	S	1			X	X			
AOC1-B113-1.5	12/21/17	1155	G	S	1							Hold
AOC1-B113-2.5	12/21/17	1200	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TA	Date/Time: 12-21-17 1639
Relinquished by:	Company:	Date/Time: 12-21-17 19:12	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1412

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

IA-BS 1.0/1.5

12/30/2017

TestAmerica Irvine
'61 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B114-00.5	12/21/17	1205	G	S	1			X	X	X		
AOC1-B114-01.5	12/21/17	1210	G	S	1							Hold
AOC1-B114-02.5	12/21/17	1215	G	S	1							Hold
AOC1-B115-00.5	12/21/17	1220	G	S	1			X	X			
AOC1-B115-01.5	12/21/17	1225	G	S	1							Hold
AOC1-B115-02.5	12/21/17	1230	G	S	1							Hold
AOC1B114-00.5-Dup	12/21/17	1205	G	S	1			X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 1912	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/21/17 1912

FD-05 1.6/1.5 5/4

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199093-1

Login Number: 199093

List Source: TestAmerica Irvine

List Number: 1

Creator: Garcia, Veronica G

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198798-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/11/2018 4:20:20 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 10
QC Association Summary 12
Definitions/Glossary 13
Certification Summary 14
Chain of Custody 15
Receipt Checklists 26

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198798-4	AOC1-B34-D0.5	Solid	12/18/17 08:25	12/19/17 13:10
440-198798-5	AOC1-B34-D1.5	Solid	12/18/17 08:30	12/19/17 13:10
440-198798-6	AOC1-B34-D2.5	Solid	12/18/17 08:35	12/19/17 13:10
440-198798-86	AOC1-B64-D1.5	Solid	12/18/17 15:10	12/19/17 13:10
440-198798-87	AOC1-B64-D2.5	Solid	12/18/17 15:15	12/19/17 13:10
440-198798-89	AOC1-B58-D1.5	Solid	12/18/17 15:25	12/19/17 13:10
440-198798-90	AOC1-B58-D2.5	Solid	12/18/17 15:35	12/19/17 13:10

Job ID: 440-198798-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198798-2

Comments
Only the additional total Lead or Arsenic results, and the STLC Lead results are included in this report, per client's 1/3/18 email request.

Receipt
The samples were received on 12/19/2017 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4° C and 2.2° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Client Sample ID: AOC1-B34-D0.5 — Lab Sample ID: 440-198798-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.1		0.10	0.080	mg/L	20		6010B	STLC Citrate

Client Sample ID: AOC1-B34-D1.5 — Lab Sample ID: 440-198798-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-D2.5 — Lab Sample ID: 440-198798-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	29		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-D1.5 — Lab Sample ID: 440-198798-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-D2.5 — Lab Sample ID: 440-198798-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-D1.5 — Lab Sample ID: 440-198798-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-D2.5 — Lab Sample ID: 440-198798-90

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B34-D0.5 — **Lab Sample ID: 440-198798-4**
Date Collected: 12/18/17 08:25 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.1		0.10	0.080	mg/L			01/08/18 11:09	20

Client Sample ID: AOC1-B34-D1.5 — **Lab Sample ID: 440-198798-5**
Date Collected: 12/18/17 08:30 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 16:35	5

Client Sample ID: AOC1-B34-D2.5 — **Lab Sample ID: 440-198798-6**
Date Collected: 12/18/17 08:35 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 16:45	5

Client Sample ID: AOC1-B64-D1.5 — **Lab Sample ID: 440-198798-86**
Date Collected: 12/18/17 15:10 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:47	5

Client Sample ID: AOC1-B64-D2.5 — **Lab Sample ID: 440-198798-87**
Date Collected: 12/18/17 15:15 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:49	5

Client Sample ID: AOC1-B58-D1.5 — **Lab Sample ID: 440-198798-89**
Date Collected: 12/18/17 15:25 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:58	5

Client Sample ID: AOC1-B58-D2.5 — **Lab Sample ID: 440-198798-90**
Date Collected: 12/18/17 15:35 — **Matrix: Solid**
Date Received: 12/19/17 13:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:00	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Client Sample ID: AOC1-B34-D0.5

Lab Sample ID: 440-198798-4

Date Collected: 12/18/17 08:25

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	449937	01/03/18 21:39	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			450512	01/08/18 11:09	B1H	TAL IRV

Client Sample ID: AOC1-B34-D1.5

Lab Sample ID: 440-198798-5

Date Collected: 12/18/17 08:30

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 16:35	VS	TAL IRV

Client Sample ID: AOC1-B34-D2.5

Lab Sample ID: 440-198798-6

Date Collected: 12/18/17 08:35

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 16:45	VS	TAL IRV

Client Sample ID: AOC1-B64-D1.5

Lab Sample ID: 440-198798-86

Date Collected: 12/18/17 15:10

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 16:47	VS	TAL IRV

Client Sample ID: AOC1-B64-D2.5

Lab Sample ID: 440-198798-87

Date Collected: 12/18/17 15:15

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 16:49	VS	TAL IRV

Client Sample ID: AOC1-B58-D1.5

Lab Sample ID: 440-198798-89

Date Collected: 12/18/17 15:25

Matrix: Solid

Date Received: 12/19/17 13:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 16:58	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Client Sample ID: AOC1-B58-D2.5
Date Collected: 12/18/17 15:35
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-90
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:00	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-449862/1-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:31	5
Lead	ND		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 16:31	5

Lab Sample ID: LCS 440-449862/2-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	49.1		mg/Kg		99	80 - 120
Lead	49.5	48.7		mg/Kg		98	80 - 120

Lab Sample ID: 440-198798-5 MS
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: AOC1-B34-D1.5
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.1		50.0	55.7		mg/Kg		95	75 - 125
Lead	21		50.0	66.5		mg/Kg		92	75 - 125

Lab Sample ID: 440-198798-5 MSD
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: AOC1-B34-D1.5
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.1		50.0	55.5		mg/Kg		95	75 - 125	0	20
Lead	21		50.0	64.7		mg/Kg		88	75 - 125	3	20

Lab Sample ID: MB 440-449937/1-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			01/08/18 10:45	20

Lab Sample ID: LCS 440-449937/2-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	19.1		mg/L		96	80 - 120

Lab Sample ID: 440-198876-A-60-B MS ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.7		20.0	21.5		mg/L		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198876-A-60-B MSD ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.7		20.0	21.1		mg/L		92	75 - 125	2	20

Metals

Prep Batch: 449862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-5	AOC1-B34-D1.5	Total/NA	Solid	3050B	
440-198798-6	AOC1-B34-D2.5	Total/NA	Solid	3050B	
440-198798-86	AOC1-B64-D1.5	Total/NA	Solid	3050B	
440-198798-87	AOC1-B64-D2.5	Total/NA	Solid	3050B	
440-198798-89	AOC1-B58-D1.5	Total/NA	Solid	3050B	
440-198798-90	AOC1-B58-D2.5	Total/NA	Solid	3050B	
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-5 MS	AOC1-B34-D1.5	Total/NA	Solid	3050B	
440-198798-5 MSD	AOC1-B34-D1.5	Total/NA	Solid	3050B	

Leach Batch: 449937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	STLC Citrate	Solid	CA WET Citrate	
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-198876-A-60-B MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-198876-A-60-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 450129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-5	AOC1-B34-D1.5	Total/NA	Solid	6010B	449862
440-198798-6	AOC1-B34-D2.5	Total/NA	Solid	6010B	449862
440-198798-86	AOC1-B64-D1.5	Total/NA	Solid	6010B	449862
440-198798-87	AOC1-B64-D2.5	Total/NA	Solid	6010B	449862
440-198798-89	AOC1-B58-D1.5	Total/NA	Solid	6010B	449862
440-198798-90	AOC1-B58-D2.5	Total/NA	Solid	6010B	449862
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	6010B	449862
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	449862
440-198798-5 MS	AOC1-B34-D1.5	Total/NA	Solid	6010B	449862
440-198798-5 MSD	AOC1-B34-D1.5	Total/NA	Solid	6010B	449862

Analysis Batch: 450512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	STLC Citrate	Solid	6010B	449937
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	449937
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	449937
440-198876-A-60-B MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	449937
440-198876-A-60-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	449937

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-2

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181156

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulsen	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCB	Suspended Solids	Fluoride	Sample Specific Notes:
AOC1-B31-D0.5	12/18/17	0840	G	Soil	1			X	X				
AOC1-B31-D1.5	12/18/17	0845	G	Soil	1						X	X	Hold
AOC1-B31-D2.5	12/18/17	0850	G	Soil	1						X	X	Hold
AOC1-B34-D0.5	12/18/17	0825	G	Soil	1			X	X	X			
AOC1-B34-D1.5	12/18/17	0830	G	Soil	1						X	X	Hold
AOC1-B34-D2.5	12/18/17	0835	G	Soil	1						X	X	Hold
AOC1-B37-D0.5	12/18/17	0810	G	Soil	1			X	X				
AOC1-B37-D1.5	12/18/17	0815	G	Soil	1						X	X	Hold
AOC1-B37-D2.5	12/18/17	0820	G	Soil	1						X	X	Hold
AOC1-B30-D0.5	12/18/17	0940	G	Soil	1			X	X				
AOC1-B30-D1.5	12/18/17	0945	G	Soil	1						X	X	Hold
AOC1-B30-D2.5	12/18/17	0950	G	Soil	1						X	X	Hold

440-198798 Chain of Custody

00 12/20/17

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17 1000	Received by:	TA	12/19/17 1000
Relinquished by:	TA	12/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:		12/19/17 1310

2.9/2.2 1.1/0.4 1K-SG

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181155

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette Pulsen	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Jill Pitt, Mark	Carrier:	2 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nate P
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

| Sample Identification | Sample Date | Sample Time | Sample Type (C=Comp, G=Grab) | Matrix | # of Cont. | Filtered Sample (Y/N) | Perform MS / MSD (Y/N) | Arsenic | Lead | PCBs | Dioxins | Furans | | |

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181158

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Mata	Carrier:	3 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nanette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6135	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans																Sample Specific Notes:
AOC1-B54-D0.5	12/18/17	1125	G	Soil	1			X	X	X																		
AOC1-B54-D1.5	12/18/17	1130	G	Soil	1						X	X																Hold
AOC1-B54-D2.5	12/18/17	1135	G	Soil	1						X	X																Hold
AOC1-B43-D0.5	12/18/17	1040	~~Soil~~ G	Soil	1			X	X																			
AOC1-B43-D1.5	12/18/17	1045	G	Soil	1						X	X																Hold
AOC1-B43-D2.5	12/18/17	1050	G	Soil	1						X	X																Hold
AOC1-B46-D0.5	12/18/17	1055	G	Soil	1			X	X																			
AOC1-B46-D1.5	12/18/17	1100	G	Soil	1						X	X																Hold
AOC1-B46-D2.5	12/18/17	1105	G	Soil	1						X	X																Hold
AOC1-B51-D0.5	12/18/17	1140	G	Soil	1			X	X																			
AOC1-B51-D1.5	12/18/17	1145	G	Soil	1						X	X																
AOC1-B51-D2.5	12/18/17	1150	G	Soil	1						X	X																

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 12/19/17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

11/1/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181157

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler: Nenette
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Metals	Furans	Sample Specific Notes:
AOC1-B38-D0.5	12/18/17	1210	G	Soil	1			X	X				
AOC1-B38-D1.5	12/18/17	1215	G	Soil	1					X	X	X	Hold
AOC1-B38-D2.5	12/18/17	1220	G	Soil	1						X	X	Hold
AOC1-B45-D0.5	12/18/17	1110	G	Soil	1			X	X				
AOC1-B45-D1.5	12/18/17	1115	G	Soil	1						X	X	Hold
AOC1-B45-D2.5	12/18/17	1120	G	Soil	1						X	X	Hold
AOC1-B41-D0.5	12/18/17	1010	G	Soil	1			X	X				
AOC1-B41-D1.5	12/18/17	1015	G	Soil	1					X	X	X	Hold
AOC1-B41-D2.5	12/18/17	1020	G	Soil	1						X	X	Hold
AOC1-B40-D0.5	12/18/17	1025	G	Soil	1			X	X				
AOC1-B40-D1.5	12/18/17	1030	G	Soil	1						X	X	Hold
AOC1-B40-D2.5	12/18/17	1035	G	Soil	1						X	X	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Page 18 of 26

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181162

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: Nuvelle P.

Client Contact	Project Manager: Justin King	Site Contact: ~~Justin~~	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 8 COCs
Address: 100 west walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins NL	Furans NL	Sample Specific Notes:
AOC1-B47-D0.5	12/18/17	1155	G	S	1			X	X				
AOC1-B47-D1.5	12/18/17	1200	G	S	1						X	X	Hold
AOC1-B47-D2.5	12/18/17	1205	G	S	1						X	X	Hold
AOC1-B52-D0.5	12/18/17	1250	G	S	1			X	X				
AOC1-B52-D1.5	12/18/17	1255	G	S	1						X	X	Hold
AOC1-B52-D2.5	12/18/17	1300	G	S	1						X	X	Hold
AOC1-B53-D0.5	12/18/17	1305	G	S	1			X	X				
AOC1-B53 D1.5	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B55 D2.5	12/18/17	1315	G	S	1			X	X	NC	X	X	Hold
AOC1 B52-D1.5-Dup	12/18/17	1255	G	S	1			X	X	NC	X	X	Hold
AOC1-B55-D1.5-Dup	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B59-D0.5-Dup	12/18/17	1325	G	S	1			X	X				Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12-19-17 1000	Received by:	TA	12/19/17 10 CN
Relinquished by:	TA	(2/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:		12/19/17 1310

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181159

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin Kim	Site Contact: Nenette P	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Moore	Carrier:	6 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins	Furans	NP	Sample Specific Notes:
AOC1-B59-D0.5	12/18/17	1320	G	S	1			X	X					
AOC1-B59-D1.5	12/18/17	1325	G	S	1						X	X		Hold
AOC1-B59-D2.5	12/18/17	1330	G	S	1						X	X		Hold
AOC1-B61-D0.5	12/18/17	1335	G	S	1			X	X					
AOC1-B61-D1.5	12/18/17	1340	G	S	1						X	X		Hold
AOC1-B61-D2.5	12/18/17	1345	G	S	1						X	X		Hold
AOC1-B70-D0.5	12/18/17	1350	G	S	1			X	X					
AOC1-B70-D1.5	12/18/17	1355	G	S	1						X	X		Hold
AOC1-B70-D2.5	12/18/17	1400	G	S	1						X	X		Hold
AOC1-B60-D0.5-Dup	12/18/17	1405	G	S	1			X	X					
AOC1-B70-D0.5-Dup	12/18/17	1355	G	S	1			X	X					
AOC1-B61-D0.5-Dup	12/18/17	1335	G	S	1			X	X					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Parsons	12-18-17 1000		TA	12/19/17 1000
Relinquished by:	TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

Page 20 of 26

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181160

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 5 COCs
Address: 100 west Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOCs	Dioxin	Furans	NT	Sample Specific Notes:
AOC1-B60-D0.5	12/18/17	1405	G	S	1			X	X					
AOC1-B60-D1.5	12/18/17	1410	G	S	1						X	X		Hold
AOC1-B60-D2.5	12/18/17	1415	G	S	1						X	X		Hold
AOC1-B62-D0.5	12/18/17	1420	G	S	1			X	X					
AOC1-B62-D1.5	12/18/17	1425	G	S	1						X	X		Hold
AOC1-B62-D2.5	12/18/17	1430	G	S	1						X	X		Hold
AOC1-B67-D0.5	12/18/17	1435	G	S	1			X	X					
AOC1-B67-D1.5	12/18/17	1440	G	S	1						X	X		Hold
AOC1-B67-D2.5	12/18/17	1445	G	S	1						X	X		Hold
AOC1-B65-D0.5	12/18/17	1450	G	S	1			X	X					
AOC1-B65-D1.5	12/18/17	1455	G	S	1						X	X		Hold
AOC1-B65-D2.5	12/18/17	1500	G	S	1						X	X		Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Page 21 of 26

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181161

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: JD Parsons	Tel/Fax: 626-440-6133	Lab Contact:	Carrier:	8 of 8 COCs
Address: 100 west walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS DBA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	Pesticides	Perchlorate	OCP	Sample Specific Notes:
AOC1-B64-D0.5	12/18/17	1505	G	S	1			X	X					
AOC1-B64 D1.5	12/18/17	1510	G	S	1					-	X	X		Hold
AOC1-B64 D2.5	12/18/17	1515	G	S	1						X	X		Hold
AOC1-B58-D0.5	12/18/17	1520	G	S	1			X	X					
AOC1-B58-D0.5	12/18/17	1525	G	S	1						X	X		Hold
AOC1 B58-D2.5	12/18/17	1530	G	S	1						X	X		Hold
E 12.18.17	12/18/17	1535	G	S	2									
AOC1-(B40-B41-B43-B44-B45)	12/18/17		6	S									X	lab to composite sample AOC1-
AOC1-(B30-B31-B33-B34)	↓		6	S									X	lab to composite sample AOC1-
AOC1-(B36-B37-B38-B39)			6	S									X	lab to composite sample AOC1-
AOC1-(B52-B54-B55-B60)	↓		6	S									X	lab to composite sample AOC1-

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Parsons	12-19-17 1000		TVA	12/19/17 1000
Relinquished by:	TVA	12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Page 22 of 26

1/4/2018

Tran, Dennis Lam

From: King, Justin <Justin.King@parsons.com>
Sent: Wednesday, January 03, 2018 1:46 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: RE: Reseda

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Dennis
Can you have Pb run for STLC for the following soil samples?
AOC1-B6-D0.5
AOC1-B34-D0.5
AOC1-B108-D0.5
AOC1-B100-D0.5
Thanks,
Justin

From: Tran, Dennis Lam [mailto:Dennis.Tran@testamericainc.com]
Sent: Wednesday, January 03, 2018 8:30 AM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: RE: Reseda

Good morning Justin,

AOC3-B1, primary and dup, are going to be reported separately as job J198799-2.

I will go ahead and make the changes you have outlined in the email below; this email should be sufficient enough.

DENNIS TRAN
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3236
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Tuesday, January 02, 2018 5:02 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: FW: Reseda

-External Email-

Hi Dennis
Patty is the project manager for a job that we conducted at the Reseda High School. I had a question regarding the analysis of dioxin and furans for lab report J198799. We requested a primary sample and dup to be analyzed but it was not reported.
I also submitted number of samples to be held. I would like to run some of those samples as outlined below. Do you need me to amend the original COC to request the analysis or submit a new COC? Or will this email suffice? (Lab ID numbers for the samples are J198798, J198799, J198876, J199093). Please let me know if you need further clarification.
Thanks

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

From: King, Justin
Sent: Tuesday, January 02, 2018 4:56 PM
To: patty.mata@testamericainc.com
Subject: Reseda

Hi Patty
I did not see the results of the dioxin and furan testing for AOC3-B1. Were you going to report that separately?
Also, I will need the follow held samples analyzed.

- AOC1-B1-D1.5 and AOC1-B1-D2.5 for Arsenic.
- AOC1-B6-D1.5 and AOC1-B6-D2.5 for Lead
- AOC1-B8-D1.5 and AOC1-B8-D2.5 for Arsenic
- AOC1-B10-D1.5 and AOC1-B10-D2.5 for Arsenic
- AOC1-B22-D1.5 and AOC1-B22-D2.5 for Arsenic
- AOC1-B34-D1.5 and AOC1-B34-D2.5 for Lead
- AOC1-B58-D1.5 and AOC1-B58-D2.5 for Arsenic
- AOC1-B64-D1.5 and AOC1-B64-D2.5 for Arsenic
- AOC1-B77-D1.5 and AOC1-B77-D2.5 for Arsenic
- AOC1-B78-D1.5 and AOC1-B78-D2.5 for Arsenic

- AOC1-B81-D1.5 and AOC1-B81-D2.5 for Arsenic
- AOC1-B91-D1.5 and AOC1-B91-D2.5 for Arsenic
- AOC-B100-D1.5 and AOC1-B100-D2.5 for Lead
- AOC1-B108-D1.5 and AOC1-B109-D2.5 for Arsenic and Lead
- AOC1-B112-D1.5 and AOC1-B112-D2.5 for Arsenic

Please let me know if I need to amend the individual COCs to include the analysis request or send you a new COC.
Thanks
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198798-2

Login Number: 198798

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	See case narrative.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198798-3
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/17/2018 4:16:38 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 9
QC Association Summary 10
Definitions/Glossary 11
Certification Summary 12
Chain of Custody 13
Receipt Checklists 22

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198798-4	AOC1-B34-D0.5	Solid	12/18/17 08:25	12/19/17 13:10

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Job ID: 440-198798-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198798-3

Comments
Only the results for additional TCLP test that was requested on 1/12/18 are included in this report.

Receipt
The samples were received on 12/19/2017 1:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 2.2º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Client Sample ID: AOC1-B34-D0.5 **Lab Sample ID: 440-198798-4**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.15		0.10	0.040	mg/L	1		6010B	TCLP

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Client Sample ID: AOC1-B34-D0.5
Date Collected: 12/18/17 08:25
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-4
Matrix: Solid

Method: 6010B - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.15		0.10	0.040	mg/L		01/14/18 02:23	01/16/18 11:31	1

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Client Sample ID: AOC1-B34-D0.5
Date Collected: 12/18/17 08:25
Date Received: 12/19/17 13:10

Lab Sample ID: 440-198798-4
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
TCLP	Leach	1311			100.05 g	2000 mL	451513	01/13/18 00:38	CDH	TAL IRV
TCLP	Prep	3010A			5 mL	50 mL	451596	01/14/18 02:23	CDH	TAL IRV
TCLP	Analysis	6010B		1			451962	01/16/18 11:31	B1H	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-451513/1-B
Matrix: Solid
Analysis Batch: 451962

Client Sample ID: Method Blank
Prep Type: TCLP
Prep Batch: 451596

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.040	mg/L		01/14/18 02:23	01/16/18 11:27	1

Lab Sample ID: LCS 440-451513/2-B
Matrix: Solid
Analysis Batch: 451962

Client Sample ID: Lab Control Sample
Prep Type: TCLP
Prep Batch: 451596

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.00	1.98		mg/L		99	80 - 120

Lab Sample ID: 440-198798-4 MS
Matrix: Solid
Analysis Batch: 451962

Client Sample ID: AOC1-B34-D0.5
Prep Type: TCLP
Prep Batch: 451596

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.15		2.00	2.11		mg/L		98	75 - 125

Lab Sample ID: 440-198798-4 MSD
Matrix: Solid
Analysis Batch: 451962

Client Sample ID: AOC1-B34-D0.5
Prep Type: TCLP
Prep Batch: 451596

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.15		2.00	2.08		mg/L		97	75 - 125	1	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Metals

Leach Batch: 451513

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	TCLP	Solid	1311	
MB 440-451513/1-B	Method Blank	TCLP	Solid	1311	
LCS 440-451513/2-B	Lab Control Sample	TCLP	Solid	1311	
440-198798-4 MS	AOC1-B34-D0.5	TCLP	Solid	1311	
440-198798-4 MSD	AOC1-B34-D0.5	TCLP	Solid	1311	

Prep Batch: 451596

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	TCLP	Solid	3010A	451513
MB 440-451513/1-B	Method Blank	TCLP	Solid	3010A	451513
LCS 440-451513/2-B	Lab Control Sample	TCLP	Solid	3010A	451513
440-198798-4 MS	AOC1-B34-D0.5	TCLP	Solid	3010A	451513
440-198798-4 MSD	AOC1-B34-D0.5	TCLP	Solid	3010A	451513

Analysis Batch: 451962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198798-4	AOC1-B34-D0.5	TCLP	Solid	6010B	451596
MB 440-451513/1-B	Method Blank	TCLP	Solid	6010B	451596
LCS 440-451513/2-B	Lab Control Sample	TCLP	Solid	6010B	451596
440-198798-4 MS	AOC1-B34-D0.5	TCLP	Solid	6010B	451596
440-198798-4 MSD	AOC1-B34-D0.5	TCLP	Solid	6010B	451596

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198798-3

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Friday, January 12, 2018 10:39 AM
To: Mata, Patty
Subject: RE: TestAmerica additional metals report files from 440-198799-3 LAUSD Reseda H.S., CA

-External Email-

No problem. When do you think they will be ready?
Also, Can you run TCLP on **AOC1-B34-D0.5.**
It is over 5 for STLC.
Thanks
Justin

From: Mata, Patty [mailto:Patty.Mata@testamericainc.com]
Sent: Thursday, January 11, 2018 5:06 PM
To: King, Justin <Justin.King@parsons.com>
Subject: RE: TestAmerica additional metals report files from 440-198799-3 LAUSD Reseda H.S., CA

Justin,

Sorry! We ran the wrong samples! We tested the AOC3-B1 sample set instead of the AOC1-B1 set. I need to add the tests to job 440-198876 which has the correct samples in it. I just double-checked and all the other samples were correct, only the B1 samples were wrong. I will get the tests started on the correct B1 samples right away.

Sorry again for the mistake!

Thanks,

PATTY MATA
Project Manager

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3213

www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181156

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulsen	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCB	Cadmium	Furans	Sample Specific Notes:
AOC1-B31-D0.5	12/18/17	0840	G	Soil	1			X	X				
AOC1-B31-D1.5	12/18/17	0845	G	Soil	1						X	X	Hold
AOC1-B31-D2.5	12/18/17	0850	G	Soil	1						X	X	Hold
AOC1-B34-D0.5	12/18/17	0825	G	Soil	1			X	X	X			
AOC1-B34-D1.5	12/18/17	0830	G	Soil	1						X	X	Hold
AOC1-B34-D2.5	12/18/17	0835	G	Soil	1						X	X	Hold
AOC1-B37-D0.5	12/18/17	0810	G	Soil	1			X	X				
AOC1-B37-D1.5	12/18/17	0815	G	Soil	1						X	X	Hold
AOC1-B37-D2.5	12/18/17	0820	G	Soil	1						X	X	Hold
AOC1-B30-D0.5	12/18/17	0940	G	Soil	1			X	X				
AOC1-B30-D1.5	12/18/17	0945	G	Soil	1						X	X	Hold
AOC1-B30-D2.5	12/18/17	0950	G	Soil	1						X	X	Hold

440-198798 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12/19/17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

2.9/2.2 1.1/0.4 IR-5/6

11/1/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181155

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette Paulson	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Jill Pitt, Mark	Carrier:	2 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nate P
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans																Sample Specific Notes:
AOC1-B33-D0.5	12/18/17	0855	G	Soil	1			X	X	X																		
AOC1-B33-D1.5	12/18/17	0900	G	Soil	1					X	X																	Hold
AOC1-B33-D2.5	12/18/17	0905	G	Soil	1					X	X																	Hold
AOC1-B36-D0.5	12/18/17	0910	G	Soil	1			X	X																			X MW
AOC1-B36-D1.5	12/18/17	0915	G	Soil	1					X	X																	Hold
AOC1-B36-D2.5	12/18/17	0920	G	Soil	1					X	X																	Hold
AOC1-B34-D0.5	12/18/17	0925	G	Soil	1			X	X																			
AOC1-B34-D1.5	12/18/17	0930	G	Soil	1					X	X																	Hold
AOC1-B39-D2.5	12/18/17	0935	G	Soil	1					X	X																	Hold
AOC1-B44-D0.5	12/18/17	0955	G	Soil	1			X	X	X																		
AOC1-B44-D1.5	12/18/17	1000	G	Soil	1					X	X																	Hold
AOC1-B44-D2.5	12/18/17	1005	G	Soil	1					X	X																	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17 1000	Received by:	TA	12/19/17 1000
Relinquished by:	TA	12/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:	TA	12/19/17 1310

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181158

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Mata	Carrier:	3 of 8 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nanette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6135	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans																Sample Specific Notes:
AOC1-B54-D0.5	12/18/17	1125	G	Soil	1			X	X	X																		
AOC1-B54-D1.5	12/18/17	1130	G	Soil	1						X	X																Hold
AOC1-B54-D2.5	12/18/17	1135	G	Soil	1						X	X																Hold
AOC1-B43-D0.5	12/18/17	1040	~~Soil~~ G	Soil	1			X	X																			
AOC1-B43-D1.5	12/18/17	1045	G	Soil	1						X	X																Hold
AOC1-B43-D2.5	12/18/17	1050	G	Soil	1						X	X																Hold
AOC1-B46-D0.5	12/18/17	1055	G	Soil	1			X	X																			
AOC1-B46-D1.5	12/18/17	1100	G	Soil	1						X	X																Hold
AOC1-B46-D2.5	12/18/17	1105	G	Soil	1						X	X																Hold
AOC1-B51-D0.5	12/18/17	1140	G	Soil	1			X	X																			
AOC1-B51-D1.5	12/18/17	1145	G	Soil	1						X	X																
AOC1-B51-D2.5	12/18/17	1150	G	Soil	1						X	X																

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/19/17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

11/12/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181157

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler: Nenette
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Metals	Furans	Sample Specific Notes:
AOC1-B38-D0.5	12/18/17	1210	G	Soil	1			X	X				
AOC1-B38-D1.5	12/18/17	1215	G	Soil	1					X	X	X	Hold
AOC1-B38-D2.5	12/18/17	1220	G	Soil	1						X	X	Hold
AOC1-B45-D0.5	12/18/17	1110	G	Soil	1			X	X				
AOC1-B45-D1.5	12/18/17	1115	G	Soil	1						X	X	Hold
AOC1-B45-D2.5	12/18/17	1120	G	Soil	1						X	X	Hold
AOC1-B41-D0.5	12/18/17	1010	G	Soil	1			X	X				
AOC1-B41-D1.5	12/18/17	1015	G	Soil	1					X	X	X	Hold
AOC1-B41-D2.5	12/18/17	1020	G	Soil	1						X	X	Hold
AOC1-B40-D0.5	12/18/17	1025	G	Soil	1			X	X				
AOC1-B40-D1.5	12/18/17	1030	G	Soil	1						X	X	Hold
AOC1-B40-D2.5	12/18/17	1035	G	Soil	1						X	X	Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Page 17 of 22

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181162

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other: Nuvette P.

Client Contact	Project Manager: Justin King	Site Contact: ~~Justin~~	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 8 COCs
Address: 100 west walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below Std.			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins NL	Furans NL	Sample Specific Notes:
AOC1-B47-D0.5	12/18/17	1155	G	S	1			X	X				
AOC1-B47-D1.5	12/18/17	1200	G	S	1						X	X	Hold
AOC1-B47-D2.5	12/18/17	1205	G	S	1						X	X	Hold
AOC1-B52-D0.5	12/18/17	1250	G	S	1			X	X				
AOC1-B52-D1.5	12/18/17	1255	G	S	1						X	X	Hold
AOC1-B52-D2.5	12/18/17	1300	G	S	1						X	X	Hold
AOC1-B53-D0.5	12/18/17	1305	G	S	1			X	X				
AOC1-B53 D1.5	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B55 D2.5	12/18/17	1315	G	S	1			X	X		X	X	Hold
AOC1 B52-D1.5-Dup	12/18/17	1255	G	S	1			X	X		X	X	Hold
AOC1-B55-D1.5-Dup	12/18/17	1310	G	S	1						X	X	Hold
AOC1-B59-D0.5-Dup	12/18/17	1325	G	S	1			X	X				Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12-19-17 1000	Received by:	TA	12/19/17 10 CN
Relinquished by:	TA	(2/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:		12/19/17 1310

1/11/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181159

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin Kim	Site Contact: Nenette P	Date: 12-18-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6135	Lab Contact: Patty Moore	Carrier:	6 of 8 COCs
Address: 100 west walnut st	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Dioxins	Furans	Sample Specific Notes:
AOC1-B59-D0.5	12/18/17	1320	G	S	1			X	X				
AOC1-B59-D1.5	12/18/17	1325	G	S	1						X	X	Hold
AOC1-B59-D2.5	12/18/17	1330	G	S	1						X	X	Hold
AOC1-B61-D0.5	12/18/17	1335	G	S	1			X	X				
AOC1-B61-D1.5	12/18/17	1340	G	S	1						X	X	Hold
AOC1-B61-D2.5	12/18/17	1345	G	S	1						X	X	Hold
AOC1-B70-D0.5	12/18/17	1350	G	S	1			X	X				
AOC1-B70-D1.5	12/18/17	1355	G	S	1						X	X	Hold
AOC1-B70-D2.5	12/18/17	1400	G	S	1						X	X	Hold
AOC1-B60-D0.5-Dup	12/18/17	1405	G	S	1			X	X				
AOC1-B70-D0.5-Dup	12/18/17	1355	G	S	1			X	X				
AOC1-B61-D0.5-Dup	12/18/17	1335	G	S	1			X	X				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company:	Date/Time:	Received by:	Company:	Date/Time:
Relinquished by:	Parsons	12-19-17 1000		TA	12/19/17 10
Relinquished by:	TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 12/19/17 1310

Page 19 of 22

1/17/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181160

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette P.	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 5 COCs
Address: 100 west Walnut St	Analysis Turnaround Time			Sampler: Nenette P.
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HSPEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOCs	Pb Grain Size	Total Solids	Sample Specific Notes:
AOC1-B60-D0.5	12/18/17	1405	G	S	1			X	X				
AOC1-B60-D1.5	12/18/17	1410	G	S	1					X	X		Hold
AOC1-B60-D2.5	12/18/17	1415	G	S	1					X	X		Hold
AOC1-B62-D0.5	12/18/17	1420	G	S	1			X	X				
AOC1-B62-D1.5	12/18/17	1425	G	S	1					X	X		Hold
AOC1-B62-D2.5	12/18/17	1430	G	S	1					X	X		Hold
AOC1-B67-D0.5	12/18/17	1435	G	S	1			X	X				
AOC1-B67-D1.5	12/18/17	1440	G	S	1					X	X		Hold
AOC1-B67-D2.5	12/18/17	1445	G	S	1					X	X		Hold
AOC1-B65-D0.5	12/18/17	1450	G	S	1			X	X				
AOC1-B65-D1.5	12/18/17	1455	G	S	1					X	X		Hold
AOC1-B65-D2.5	12/18/17	1500	G	S	1					X	X		Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1316

Page 20 of 22

1/17/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181161

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: JD Parsons	Tel/Fax: 626-440-6133	Lab Contact:	Carrier:	8 of 8 COCs
Address: 100 west walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS DBA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	Pesticides	OCP																				Sample Specific Notes:
AOC1-B64-D0.5	12/18/17	1505	G	S	1			X	X																							
AOC1-B64 D1.5	12/18/17	1510	G	S	1					-	X	X																				Hold
AOC1-B64 D2.5	12/18/17	1515	G	S	1						X	X																				Hold
AOC1-B58-D0.5	12/18/17	1520	G	S	1			X	X																							
AOC1-B58-D1.5	12/18/17	1525	G	S	1						X	X																				Hold
AOC1 B58-D2.5	12/18/17	1530	G	S	1						X	X																				Hold
E 12.18.17	12/18/17	1535	G	S	2																											
AOC1-(B40-B41-B43-B44-B45)	12/18/17		6	S									X																		lab to composite sample AOC1-
AOC1-(B30-B31-B33-B34)	↓		6	S									X																		lab to composite sample AOC1-
AOC1-(B36-B37-B38-B39)			6	S									X																		lab to composite sample AOC1-
AOC1-(B52-B54-B55-B60)	↓		6	S									X																		lab to composite sample AOC1-

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12-19-17 1000	Received by:	TVI	12/19/17 1000
Relinquished by:	TA	12/19/17 1310	Received by:		
Relinquished by:			Received in Laboratory by:	TA	12/19/17 1310

Page 21 of 22

1/4/2018

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198798-3

Login Number: 198798

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	See case narrative.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198799-3
Client Project/Site: LAUSD Reseda H.S., CA
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/12/2018 11:58:16 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 8
Lab Chronicle 9
QC Sample Results 11
QC Association Summary 12
Definitions/Glossary 13
Certification Summary 14
Chain of Custody 15
Receipt Checklists 25

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198799-72	AOC1-B81-D1.5	Solid	12/19/17 13:05	12/19/17 18:55
440-198799-73	AOC1-B81-D2.5	Solid	12/19/17 13:10	12/19/17 18:55
440-198799-75	AOC1-B78-D1.5	Solid	12/19/17 13:20	12/19/17 18:55
440-198799-76	AOC1-B78-D2.5	Solid	12/19/17 13:25	12/19/17 18:55
440-198799-78	AOC1-B77-D1.5	Solid	12/19/17 13:35	12/19/17 18:55
440-198799-79	AOC1-B77-D2.5	Solid	12/19/17 13:40	12/19/17 18:55
440-198799-84	AOC1-B22-D1.5	Solid	12/19/17 14:05	12/19/17 18:55
440-198799-85	AOC1-B22-D2.5	Solid	12/19/17 14:10	12/19/17 18:55

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Job ID: 440-198799-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198799-3

Comments
This report was revised on 1/12/18 to correct the list of additional samples reported for Arsenic.

Only the additional total Arsenic results are included in this report, per client's 1/3/18 email request.

Receipt
The samples were received on 12/19/2017 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.7º C and 5.9º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Client Sample ID: AOC1-B81-D1.5 — Lab Sample ID: 440-198799-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-D2.5 — Lab Sample ID: 440-198799-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-D1.5 — Lab Sample ID: 440-198799-75

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-D2.5 — Lab Sample ID: 440-198799-76

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-D1.5 — Lab Sample ID: 440-198799-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	37		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-D2.5 — Lab Sample ID: 440-198799-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-D1.5 — Lab Sample ID: 440-198799-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-D2.5 — Lab Sample ID: 440-198799-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B81-D1.5
Lab Sample ID: 440-198799-72
Date Collected: 12/19/17 13:05
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:06	5

Client Sample ID: AOC1-B81-D2.5
Lab Sample ID: 440-198799-73
Date Collected: 12/19/17 13:10
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:08	5

Client Sample ID: AOC1-B78-D1.5
Lab Sample ID: 440-198799-75
Date Collected: 12/19/17 13:20
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:10	5

Client Sample ID: AOC1-B78-D2.5
Lab Sample ID: 440-198799-76
Date Collected: 12/19/17 13:25
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:12	5

Client Sample ID: AOC1-B77-D1.5
Lab Sample ID: 440-198799-78
Date Collected: 12/19/17 13:35
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	37		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:14	5

Client Sample ID: AOC1-B77-D2.5
Lab Sample ID: 440-198799-79
Date Collected: 12/19/17 13:40
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:16	5

Client Sample ID: AOC1-B22-D1.5
Lab Sample ID: 440-198799-84
Date Collected: 12/19/17 14:05
Matrix: Solid
Date Received: 12/19/17 18:55

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:31	5

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Client Sample ID: AOC1-B22-D2.5
Date Collected: 12/19/17 14:10
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-85
Matrix: Solid

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:33	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Client Sample ID: AOC1-B81-D1.5
Date Collected: 12/19/17 13:05
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-72
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:06	VS	TAL IRV

Client Sample ID: AOC1-B81-D2.5
Date Collected: 12/19/17 13:10
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-73
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:08	VS	TAL IRV

Client Sample ID: AOC1-B78-D1.5
Date Collected: 12/19/17 13:20
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-75
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:10	VS	TAL IRV

Client Sample ID: AOC1-B78-D2.5
Date Collected: 12/19/17 13:25
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-76
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:12	VS	TAL IRV

Client Sample ID: AOC1-B77-D1.5
Date Collected: 12/19/17 13:35
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-78
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:14	VS	TAL IRV

Client Sample ID: AOC1-B77-D2.5
Date Collected: 12/19/17 13:40
Date Received: 12/19/17 18:55

Lab Sample ID: 440-198799-79
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:16	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Client Sample ID: AOC1-B22-D1.5

Lab Sample ID: 440-198799-84

Date Collected: 12/19/17 14:05

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:31	VS	TAL IRV

Client Sample ID: AOC1-B22-D2.5

Lab Sample ID: 440-198799-85

Date Collected: 12/19/17 14:10

Matrix: Solid

Date Received: 12/19/17 18:55

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:33	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-449862/1-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:31	5

Lab Sample ID: LCS 440-449862/2-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449862

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			49.5	49.1		mg/Kg		99	80 - 120		

Lab Sample ID: 440-198798-A-5-B MS ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	8.1		50.0	55.7		mg/Kg		95	75 - 125		

Lab Sample ID: 440-198798-A-5-C MSD ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.1		50.0	55.5		mg/Kg		95	75 - 125	0	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Metals

Prep Batch: 449862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-72	AOC1-B81-D1.5	Total/NA	Solid	3050B	
440-198799-73	AOC1-B81-D2.5	Total/NA	Solid	3050B	
440-198799-75	AOC1-B78-D1.5	Total/NA	Solid	3050B	
440-198799-76	AOC1-B78-D2.5	Total/NA	Solid	3050B	
440-198799-78	AOC1-B77-D1.5	Total/NA	Solid	3050B	
440-198799-79	AOC1-B77-D2.5	Total/NA	Solid	3050B	
440-198799-84	AOC1-B22-D1.5	Total/NA	Solid	3050B	
440-198799-85	AOC1-B22-D2.5	Total/NA	Solid	3050B	
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198798-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 450129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198799-72	AOC1-B81-D1.5	Total/NA	Solid	6010B	449862
440-198799-73	AOC1-B81-D2.5	Total/NA	Solid	6010B	449862
440-198799-75	AOC1-B78-D1.5	Total/NA	Solid	6010B	449862
440-198799-76	AOC1-B78-D2.5	Total/NA	Solid	6010B	449862
440-198799-78	AOC1-B77-D1.5	Total/NA	Solid	6010B	449862
440-198799-79	AOC1-B77-D2.5	Total/NA	Solid	6010B	449862
440-198799-84	AOC1-B22-D1.5	Total/NA	Solid	6010B	449862
440-198799-85	AOC1-B22-D2.5	Total/NA	Solid	6010B	449862
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	6010B	449862
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	449862
440-198798-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	449862
440-198798-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	449862

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198799-3

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181118

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Patti Nemeth	Date: 12-19-17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 9 COCs
Address: 100 West Walnut St	Analysis Turnaround Time			Sampler: Nemeth
City/State/Zip: Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rosed HS PEA	☐ 1 week			
Site: Rosedale High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	PCBs	Dioxin	Furan	Sample Specific Notes:
AOC1-B48-D0.5	12/19/17	0730	G	S	1			X	X	X			
AOC1-B48-D1.5	12/19/17	0735	G	S	1								Hold
AOC1-B48-D2.5	12/19/17	0740	G	S	1								Hold
AOC1-B48-D0.5-Dup	12/19/17	0730	G	S	1			X	X	X			
AOC1-B57-D0.5	12/19/17	0745	G	S	1			X	X	X			
AOC1-B57-D1.5	12/19/17	0750	G	S	1								Hold
AOC1-B57-D2.5	12/19/17	0755	G	S	1								Hold
AOC1-B57-D0.5-Dup	12/19/17	0745	G	S	1			X	X	X			
AOC1-B63-D0.5	12/19/17	0800	G	S	1			X	X				~~Hold~~ NC
AOC1-B63-D1.5	12/19/17	0805	G	S	1								Hold
AOC1-B63-D2.5	12/19/17	0810	G	S	1								Hold
E12917	12/19/17	1500	G	S	7			X	X	X	X		

440-198799 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☒ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

5.9 5.7
6.1 5.9

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 6.1 Corr'd: 5.9 | Therm ID No.: 1284

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/19/17	Received by: DCS	DCS	12/19/17 3:55 pm
Relinquished by: DCS	DCS	12/19/17 1555	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/19/17 1655

Page 15 of 25

TAL-8210 (0713) Rev. 1)

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181120

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Tamilson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: Kathy Mata	Carrier:	2 of 9 COCs
Address: 100 N Walnut St	Analysis Turnaround Time			Sampler: NT
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B66-D0.5	12/19/17	0815	G	S	1			X	X	
AOC1-B66-D1.5	12/19/17	0820	G	S	1					Hold
AOC1-B66-D2.5	12/19/17	0825	G	S	1					Hold
AOC1-B69-D0.5	12/19/17	0830	G	S	1			X	X	
AOC1-B69-D1.5	12/19/17	0835	G	S	1					Hold
AOC1-B69-D2.5	12/19/17	0840	G	S	1					Hold
AOC1-B68-D0.5	12/19/17	0845	G	S	1			X	X	
AOC1-B68-D1.5	12/19/17	0850	G	S	1					Hold
AOC1-B68-D2.5	12/19/17	0855	G	S	1					Hold
AOC1-B71-D0.5	12/19/17	0900	G	S	1			X	X	
AOC1-B71-D1.5	12/19/17	0905	G	S	1					Hold
AOC1-B71-D2.5	12/19/17	0910	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:35pm
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:35 PM			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181121

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Joseph Kahs	Site Contact: N. Gaulson	Date: 12/17/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: Patty Mata	Carrier: ~~FedEx~~	3 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below 5+1			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Lead	Arsenic	Sample Specific Notes:
AOC1-B72-00.5	12/19/17	0915	G	S	1			X	X	
AOC1-B72-01.5	12/19/17	0920	G	S	1					Hold
AOC1-B72-02.5	12/19/17	0925	G	S	1					Hold
AOC1-B73-00.5	12/19/17	0930	G	S	1			X	X	
AOC1-B73-01.5	12/19/17	0935	G	S	1					Hold
AOC1-B73-02.5	12/19/17	0940	G	S	1					Hold
AOC1-B74-00.5	12/19/17	0945	G	S	1			X	X	
AOC1-B74-01.5	12/19/17	0950	G	S	1					Hold
AOC1-B74-02.5	12/19/17	0955	G	S	1					Hold
AOC1-B75-00.5	12/19/17	1000	G	S	1			X	X	
AOC1-B75-01.5	12/19/17	1005	G	S	1					Hold
AOC1-B75-02.5	12/19/17	1010	G	S	1					Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12/19/17	Received by:	Company: DCS	Date/Time: 12/19/17 3:55 pm
Relinquished by:	Company: DCS	Date/Time: 12/19/17 6:55 pm	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181122

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N Poulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	4 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler: N. P
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS TEA	☐ 1 week			Job / SDG No.:
Site: Reseda High School	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1 B84-D0.5	12/19/17	1015	G	S	1			X	X		
AOC1 B84-D1.5	12/19/17	1020	G	S	1						Hold
AOC1 B84-D2.5	12/19/17	1025	G	S	1						Hold
AOC1 B86-D0.5	12/19/17	1030	G	S	1			X	X		~~Hold~~ MS
AOC1 B86-D1.5	12/19/17	1035	G	S	1						Hold
AOC1 B86-D2.5	12/19/17	1040	G	S	1			X			Hold
AOC1 B89-D0.5	12/19/17	1045	G	S	1			X	X		
AOC1 B89-D1.5	12/19/17	1050	G	S	1						Hold
AOC1 B89-D2.5	12/19/17	1055	G	S	1						Hold
AOC1 B88-D0.5	12/19/17	1100	G	S	1			X	X		
AOC1 B88-D1.5	12/19/17	1105	G	S	1						Hold
AOC1 B88-D2.5	12/19/17	1110	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 1555
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 1555			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

Page 118 of 125

(1/17/2018 Rev. 1)

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181128

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kilroy	Site Contact: N. Tadsen	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	5 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below 5td			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	Dioxins	Furans	Sample Specific Notes:
AOC3-B1-D0.5	12/19/17	1115	G	S	1						X	X	
AOC3-B1-D1.5	12/19/17	1120	G	S	1								Hold
AOC3-B1-D2.5	12/19/17	1125	G	S	1								Hold
AOC3-B1-D0.5-Dup	12/19/17	1115	G	S	1						X	X	
AOC1-B85-D0.5	12/19/17	1130	G	S	1			X	X				
AOC1-B85-D1.5	12/19/17	1135	G	S	1								Hold
AOC1-B85-D2.5	12/19/17	1140	G	S	1								Hold
AOC1-B87-D0.5	12/19/17	1145	G	S	1			X	X				
AOC1-B87-D1.5	12/19/17	1150	G	S	1								Hold
AOC1-B87-D2.5	12/19/17	1155	G	S	1								Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:45 PM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:55 PM			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TAI	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181127

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: P. Mata	Carrier:	6 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below 5th			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	VOC	Sample Specific Notes:
AOC1-B82-D0.5	12/19/17	1200	G	S	1			X	X		
AOC1-B82-D1.5	12/19/17	1205	G	S	1						Hold
AOC1-B82-D2.5	12/19/17	1210	G	S	1						Hold
AOC1-B79-D0.5	12/19/17	1215	G	S	1			X	X		
AOC1-B79-D1.5	12/19/17	1220	G	S	1						Hold
AOC1-B79-D2.5	12/19/17	1225	G	S	1						Hold
AOC1-B80-D0.5	12/19/17	1230	G	S	1			X	X		
AOC1-B80-D1.5	12/19/17	1235	G	S	1						Hold
AOC1-B80-D2.5	12/19/17	1240	G	S	1						Hold
AOC1-B83-D0.5	12/19/17	1245	G	S	1			X	X		
AOC1-B83-D1.5	12/19/17	1250	G	S	1						Hold
AOC1-B83-D2.5	12/19/17	1255	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:35 PM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:00 PM			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181126

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: P. Mata	Carrier:	7 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below Std			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead																									Sample Specific Notes:
AOC1-B81-D0.5	12/19/17	1300	G	S	1			X	X																									
AOC1-B81-D1.5	12/19/17	1305	G	S	1																													Hold
AOC1-B81-D2.5	12/19/17	1310	G	S	1																													Hold
AOC1-B78-D0.5	12/19/17	1315	G	S	1			X	X																									
AOC1-B78-D1.5	12/19/17	1320	G	S	1																													Hold
AOC1-B78-D2.5	12/19/17	1325	G	S	1																													Hold
AOC1-B77-D0.5	12/19/17	1330	G	S	1			X	X																									
AOC1-B77-D1.5	12/19/17	1335	G	S	1																													Hold
AOC1-B77-D2.5	12/19/17	1340	G	S	1																													Hold
AOC1-B76-D0.5	12/19/17	1345	G	S	1			X	X																									
AOC1-B76-D1.5	12/19/17	1350	G	S	1																													
AOC1-B76-D2.5	12/19/17	1355	G	S	1																													

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 2:05 pm
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:35 pm			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

181125

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kling	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626 440 6133	Lab Contact: L. Mata	Carrier:	8 of 9 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STd			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCB	Sample Specific Notes:
AOC1-B22-D0.5	12/19/17	1400	G	S	1			X	X		
AOC1-B22-D1.5	12/19/17	1405	G	S	1						Hold
AOC1-B22-D2.5	12/19/17	1410	G	S	1						Hold
AOC1-B19-D0.5	12/19/17	1415	G	S	1			X	X		
AOC1-B19-D1.5	12/19/17	1420	G	S	1						Hold
AOC1-B19-D2.5	12/19/17	1425	G	S	1						Hold
AOC1-B20-D0.5	12/19/17	1430	G	S	1			X	X		
AOC1-B20-D1.5	12/19/17	1435	G	S	1						Hold
AOC1-B20-D2.5	12/19/17	1440	G	S	1						Hold
AOC1-B15-D0.5	12/19/17	1445	G	S	1			X	X		
AOC1-B15-D1.5	12/19/17	1450	G	S	1						Hold
AOC1-B15-D2.5	12/19/17	1455	G	S	1						Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DCS	12/19/17 3:55PM
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DCS	12/19/17 6:55p			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1855

Tran, Dennis Lam

From: King, Justin <Justin.King@parsons.com>
Sent: Tuesday, January 02, 2018 5:02 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: FW: Reseda

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Dennis
Patty is the project manager for a job that we conducted at the Reseda High School. I had a question regarding the analysis of dioxin and furans for lab report J198799. We requested a primary sample and dup to be analyzed but it was not reported.
I also submitted number of samples to be held. I would like to run some of those samples as outlined below. Do you need me to amend the original COC to request the analysis or submit a new COC? Or will this email suffice? (Lab ID numbers for the samples are J198798, J198799, J198876, J199093). Please let me know if you need further clarification.
Thanks

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

From: King, Justin
Sent: Tuesday, January 02, 2018 4:56 PM
To: patty.mata@testamericainc.com
Subject: Reseda

Hi Patty
I did not see the results of the dioxin and furan testing for AOC3-B1. Were you going to report that separately?
Also, I will need the follow held samples analyzed.

- AOC1-B1-D1.5 and AOC1-B1-D2.5 for Arsenic.
- AOC1-B6-D1.5 and AOC1-B6-D2.5 for Lead
- AOC1-B8-D1.5 and AOC1-B8-D2.5 for Arsenic
- AOC1-B10-D1.5 and AOC1-B10-D2.5 for Arsenic
- AOC1-B22-D1.5 and AOC1-B22-D2.5 for Arsenic
- AOC1-B34-D1.5 and AOC1-B34-D2.5 for Lead
- AOC1-B58-D1.5 and AOC1-B58-D2.5 for Arsenic
- AOC1-B64-D1.5 and AOC1-B64-D2.5 for Arsenic
- AOC1-B77-D1.5 and AOC1-B77-D2.5 for Arsenic
- AOC1-B78-D1.5 and AOC1-B78-D2.5 for Arsenic

- AOC1-B81-D1.5 and AOC1-B81-D2.5 for Arsenic
- AOC1-B91-D1.5 and AOC1-B91-D2.5 for Arsenic
- AOC-B100-D1.5 and AOC1-B100-D2.5 for Lead
- AOC1-B108-D1.5 and AOC1-B109-D2.5 for Arsenic and Lead
- AOC1-B112-D1.5 and AOC1-B112-D2.5 for Arsenic

Please let me know if I need to amend the individual COCs to include the analysis request or send you a new COC.
Thanks
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198799-3

Login Number: 198799
List Number: 1
Creator: Avila, Stephanie 1

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198876-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/11/2018 4:25:34 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 10
QC Association Summary 12
Definitions/Glossary 14
Certification Summary 15
Chain of Custody 16
Receipt Checklists 28

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198876-55	AOC1-B10-D1.5	Solid	12/20/17 11:15	12/20/17 18:25
440-198876-56	AOC1-B10-D2.5	Solid	12/20/17 11:20	12/20/17 18:25
440-198876-60	AOC1-B6-D0.5	Solid	12/20/17 11:40	12/20/17 18:25
440-198876-61	AOC1-B6-D1.5	Solid	12/20/17 11:45	12/20/17 18:25
440-198876-62	AOC1-B6-D2.5	Solid	12/20/17 11:50	12/20/17 18:25
440-198876-79	AOC1-B8-D1.5	Solid	12/20/17 13:15	12/20/17 18:25
440-198876-80	AOC1-B8-D2.5	Solid	12/20/17 13:20	12/20/17 18:25

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Job ID: 440-198876-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198876-2

Comments
Only the additional total Lead or Arsenic results, and the STLC Lead results are included in this report, per client's 1/3/18 email request.

Receipt
The samples were received on 12/20/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 2.7º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Client Sample ID: AOC1-B10-D1.5 — Lab Sample ID: 440-198876-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-D2.5 — Lab Sample ID: 440-198876-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-D0.5 — Lab Sample ID: 440-198876-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	2.7		0.10	0.080	mg/L	20		6010B	STLC Citrate

Client Sample ID: AOC1-B6-D1.5 — Lab Sample ID: 440-198876-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-D2.5 — Lab Sample ID: 440-198876-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.2		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-D1.5 — Lab Sample ID: 440-198876-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-D2.5 — Lab Sample ID: 440-198876-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B10-D1.5 — **Lab Sample ID: 440-198876-55**
Date Collected: 12/20/17 11:15 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:36	5

Client Sample ID: AOC1-B10-D2.5 — **Lab Sample ID: 440-198876-56**
Date Collected: 12/20/17 11:20 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 17:38	5

Client Sample ID: AOC1-B6-D0.5 — **Lab Sample ID: 440-198876-60**
Date Collected: 12/20/17 11:40 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	2.7		0.10	0.080	mg/L			01/08/18 10:50	20

Client Sample ID: AOC1-B6-D1.5 — **Lab Sample ID: 440-198876-61**
Date Collected: 12/20/17 11:45 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 17:40	5

Client Sample ID: AOC1-B6-D2.5 — **Lab Sample ID: 440-198876-62**
Date Collected: 12/20/17 11:50 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.2		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 17:42	5

Client Sample ID: AOC1-B8-D1.5 — **Lab Sample ID: 440-198876-79**
Date Collected: 12/20/17 13:15 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:43	5

Client Sample ID: AOC1-B8-D2.5 — **Lab Sample ID: 440-198876-80**
Date Collected: 12/20/17 13:20 — Matrix: Solid
Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.3		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:54	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B10-D1.5 — **Lab Sample ID: 440-198876-55**
Date Collected: 12/20/17 11:15 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:36	VS	TAL IRV

Client Sample ID: AOC1-B10-D2.5 — **Lab Sample ID: 440-198876-56**
Date Collected: 12/20/17 11:20 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:38	VS	TAL IRV

Client Sample ID: AOC1-B6-D0.5 — **Lab Sample ID: 440-198876-60**
Date Collected: 12/20/17 11:40 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.07 g	500 mL	449937	01/03/18 21:39	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			450512	01/08/18 10:50	B1H	TAL IRV

Client Sample ID: AOC1-B6-D1.5 — **Lab Sample ID: 440-198876-61**
Date Collected: 12/20/17 11:45 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:40	VS	TAL IRV

Client Sample ID: AOC1-B6-D2.5 — **Lab Sample ID: 440-198876-62**
Date Collected: 12/20/17 11:50 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449862	01/03/18 15:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			450129	01/04/18 17:42	VS	TAL IRV

Client Sample ID: AOC1-B8-D1.5 — **Lab Sample ID: 440-198876-79**
Date Collected: 12/20/17 13:15 — **Matrix: Solid**
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 16:43	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Client Sample ID: AOC1-B8-D2.5
Date Collected: 12/20/17 13:20
Date Received: 12/20/17 18:25

Lab Sample ID: 440-198876-80
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 16:54	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-449862/1-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449862

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/03/18 15:10	01/04/18 16:31	5
Lead	ND		2.0	1.0	mg/Kg		01/03/18 15:10	01/04/18 16:31	5

Lab Sample ID: LCS 440-449862/2-A ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	49.1		mg/Kg		99	80 - 120
Lead	49.5	48.7		mg/Kg		98	80 - 120

Lab Sample ID: 440-198798-A-5-B MS ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.1		50.0	55.7		mg/Kg		95	75 - 125
Lead	21		50.0	66.5		mg/Kg		92	75 - 125

Lab Sample ID: 440-198798-A-5-C MSD ^5
Matrix: Solid
Analysis Batch: 450129

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449862

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.1		50.0	55.5		mg/Kg		95	75 - 125	0	20
Lead	21		50.0	64.7		mg/Kg		88	75 - 125	3	20

Lab Sample ID: MB 440-449864/1-A ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:39	5

Lab Sample ID: LCS 440-449864/2-A ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	47.8		mg/Kg		96	80 - 120

Lab Sample ID: 440-198876-79 MS
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: AOC1-B8-D1.5
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.7		50.0	54.3		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198876-79 MSD
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: AOC1-B8-D1.5
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.7		50.0	52.7		mg/Kg		92	75 - 125	3	20

Lab Sample ID: MB 440-449937/1-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			01/08/18 10:45	20

Lab Sample ID: LCS 440-449937/2-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead			20.0	19.1		mg/L		96	80 - 120		

Lab Sample ID: 440-198876-60 MS
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: AOC1-B6-D0.5
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Lead	2.7		20.0	21.5		mg/L		94	75 - 125		

Lab Sample ID: 440-198876-60 MSD
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: AOC1-B6-D0.5
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.7		20.0	21.1		mg/L		92	75 - 125	2	20

Metals

Prep Batch: 449862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-55	AOC1-B10-D1.5	Total/NA	Solid	3050B	
440-198876-56	AOC1-B10-D2.5	Total/NA	Solid	3050B	
440-198876-61	AOC1-B6-D1.5	Total/NA	Solid	3050B	
440-198876-62	AOC1-B6-D2.5	Total/NA	Solid	3050B	
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198798-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198798-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 449864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-79	AOC1-B8-D1.5	Total/NA	Solid	3050B	
440-198876-80	AOC1-B8-D2.5	Total/NA	Solid	3050B	
MB 440-449864/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-449864/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198876-79 MS	AOC1-B8-D1.5	Total/NA	Solid	3050B	
440-198876-79 MSD	AOC1-B8-D1.5	Total/NA	Solid	3050B	

Leach Batch: 449937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-60	AOC1-B6-D0.5	STLC Citrate	Solid	CA WET Citrate	
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-198876-60 MS	AOC1-B6-D0.5	STLC Citrate	Solid	CA WET Citrate	
440-198876-60 MSD	AOC1-B6-D0.5	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 450129

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-55	AOC1-B10-D1.5	Total/NA	Solid	6010B	449862
440-198876-56	AOC1-B10-D2.5	Total/NA	Solid	6010B	449862
440-198876-61	AOC1-B6-D1.5	Total/NA	Solid	6010B	449862
440-198876-62	AOC1-B6-D2.5	Total/NA	Solid	6010B	449862
MB 440-449862/1-A ^5	Method Blank	Total/NA	Solid	6010B	449862
LCS 440-449862/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	449862
440-198798-A-5-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	449862
440-198798-A-5-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	449862

Analysis Batch: 450131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-79	AOC1-B8-D1.5	Total/NA	Solid	6010B	449864
440-198876-80	AOC1-B8-D2.5	Total/NA	Solid	6010B	449864
MB 440-449864/1-A ^5	Method Blank	Total/NA	Solid	6010B	449864
LCS 440-449864/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	449864
440-198876-79 MS	AOC1-B8-D1.5	Total/NA	Solid	6010B	449864
440-198876-79 MSD	AOC1-B8-D1.5	Total/NA	Solid	6010B	449864

Analysis Batch: 450512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-60	AOC1-B6-D0.5	STLC Citrate	Solid	6010B	449937
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	449937
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	449937

Metals (Continued)

Analysis Batch: 450512 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-60 MS	AOC1-B6-D0.5	STLC Citrate	Solid	6010B	449937
440-198876-60 MSD	AOC1-B6-D0.5	STLC Citrate	Solid	6010B	449937

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-2

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 12 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B21-D0.5	12/20/17	0720	G	S	1			X	X	X		
AOC1-B21-D1.5	12/20/17	0725	G	S	1							Hold
AOC1-B21-D2.5	12/20/17	0730	G	S	1							Hold
AOC1-B21-D0.5-Dup	12/20/17	0720	G	S	1			X	X	X		
AOC1-B18-D0.5	12/20/17	0735	G	S	1			X	X	X		
AOC1-B18-D1.5	12/20/17	0740	G	S	1							Hold
AOC1-B18-D2.5	12/20/17	0745	G	S	1							Hold
AOC1-B18-D0.5-Dup	12/20/17	0735	G	S	1			X	X	X		
AOC1-B17-D0.5	12/20/17	0730	G	S	1			X	X	X		
AOC1-B17-D1.5	12/20/17	0735	G	S	1							Hold
AOC1-B17-D2.5	12/20/17	0750	G	S	1							Hold
EB12017	12/20/17	0700	G	S	4			X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by

440-198876 Chain of Custody

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1430	Received by:	Company: TA	Date/Time: 12/20/17 1430
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

12/21/17 14:30

1.4/2.0 2.1/2.7

Page 1 of 2

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B16-D0.5	12/20/17	0805	G	S	1			X	X	X AN		
AOC1-B16-D1.5	12/20/17	0810	G	S	1							Hold
AOC1-B16-D2.5	12/20/17	0815	G	S	1							Hold
AOC1-B14-D0.5	12/20/17	0820	G	S	1			X	X			
AOC1-B14-D1.5	12/20/17	0825	G	S	1							Hold
AOC1-B14-D2.5	12/20/17	0830	G	S	1							
AOC1-B18-D0.5	12/20/17	0835	G	S	1			X	X	X		
AOC1-B28-D1.5	12/20/17	0840	G	S	1							Hold
AOC1-B28-D2.5	12/20/17	0845	G	S	1					X MW		Hold
AOC2-B2-D0.5	12/20/17	0850	G	S	1					X		
AOC2-B2-D1.5	12/20/17	0855	G	S	1							Hold
AOC2-B2-D2.5	12/20/17	0900	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TAI	Date/Time: 12/20/17 1450
Relinquished by:	Company: TAI	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC2-B1-D0.5	12/20/17	0905	G	S	1					X		
AOC2-B1-D1.5	12/20/17	0910	G	S	1					X MS		Hold
AOC2-B1-D2.5	12/20/17	0915	G	S	1							Hold
AOC2-B1-D0.5-Dup	12/20/17	0905	G	S	1					X		
AOC1-B29-D0.5	12/20/17	0910	G	S	1			X	X			
AOC1-B29-D1.5	12/20/17	0915	G	S	1							Hold
AOC1-B29-D2.5	12/20/17	0920	G	S	1							Hold
AOC1-B26-D0.5	12/20/17	0925	G	S	1			X	X			
AOC1-B26-D1.5	12/20/17	0930	G	S	1							Hold
AOC1-B26-D2.5	12/20/17	0935	G	S	1							Hold
AOC1-B28-D0.5-Dup	12/20/17	0835	G	S	1			X	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450	
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B25-D0.5	12/20/17	0940	G	S	1			X	X	X		
AOC1-B25-D1.5	12/20/17	0945	G	S	1							H.Id
AOC1-B25-D2.5	12/20/17	0950	G	S	1							H.Id
AOC1-B24-D0.5	12/20/17	0955	G	S	1			X	X			
AOC1-B24-D1.5	12/20/17	1000	G	S	1							H.Id
AOC1-B24-D2.5	12/20/17	1005	G	S	1							H.Id
AOC1-B27-D0.5	12/20/17	1010	G	S	1			X	X			
AOC1-B27-D1.5	12/20/17	1015	G	S	1							H.Id
AOC1-B27-D2.5	12/20/17	1020	G	S	1							H.Id
AOC1-B23-D0.5	12/20/17	1025	G	S	1			X	X			
AOC1-B23-D1.5	12/20/17	1030	G	S	1							H.Id
AOC1-B23-D2.5	12/20/17	1035	G	S	1							H.Id

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: T-7	Date/Time: 12/20/17 1450
Relinquished by:	Company: TAI	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B12-D0.5	12/20/17	1040	G	S	1			X	X	X		
AOC1-B12-D1.5	12/20/17	1045	G	S	1							Hold
AOC1-B12-D2.5	12/20/17	1050	G	S	1							Hold
AOC1-B11-D0.5	12/20/17	1055	G	S	1			X	X			
AOC1-B11-D1.5	12/20/17	1100	G	S	1							Hold
AOC1-B11-D2.5	12/20/17	1105	G	S	1							Hold
AOC1-B10-D0.5	12/20/17	1110	G	S	1			X	X			
AOC1-B10-D1.5	12/20/17	1115	G	S	1							Hold
AOC1-B10-D2.5	12/20/17	1120	G	S	1							Hold
AOC1-B9-D0.5	12/20/17	1125	G	S	1			X	X			
AOC1-B9-D1.5	12/20/17	1130	G	S	1							Hold
AOC1-B9-D2.5	12/20/17	1135	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: PBS Inc	Date/Time: 12/20/17 1400	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AoC1 - B6 - D0.5	12/20/17	1140	G	S	1			X	X			
AoC1 - B6 - D1.5	12/20/17	1145	G	S	1							Hold
AoC1 - B6 - D2.5	12/20/17	1150	G	S	1							Hold
AoC1 - B3 - D0.5	12/20/17	1155	G	S	1			X	X			
AoC1 - B3 - D1.5	12/20/17	1200	G	S	1							Hold
AoC1 - B3 - D2.5	12/20/17	1205	G	S	1							Hold
AoC1 - B2 - D0.5	12/20/17	1210	G	S	1			X	X			
AoC1 - B2 - D1.5	12/20/17	1215	G	S	1							Hold
AoC1 - B2 - D2.5	12/20/17	1220	G	S	1							Hold
AoC1 - B1 - D0.5	12/20/17	1225	G	S	1			X	X			
AoC1 - B1 - D1.5	12/20/17	1230	G	S	1							Hold
AoC1 - B1 - D2.5	12/20/17	1235	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1400	Received by:	Company: TA	Date/Time: 12/20/17 1400
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B4-D0.5		1240	G	S	1			X	X			
AOC1-B4-D1.5		1245	G	S	1							Hold
AOC1-B4-D2.5		1250	G	S	1							Hold
AOC1-B5-D0.5		1255	G	S	1			X	X			
AOC1-B5-D1.5		1300	G	S	1							Hold
AOC1-B5-D2.5		1305	G	S	1							Hold
AOC1-B8-D0.5		1310	G	S	1			X	X			
AOC1-B8-D1.5		1315	G	S	1							Hold
AOC1-B8-D2.5		1320	G	S	1							Hold
AOC1-B13-D0.5		1325	G	S	1			X	X			
AOC1-B13-D1.5		1330	G	S	1							Hold
AOC1-B13-D2.5		1335	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B94-D0.5	12/20/17	1340	G	S	1			X	X			
AOC1-B94-D1.5	12/20/17	1345	G	S	1							Hold
AOC1-B94-D2.5	12/20/17	1350	G	S	1							Hold
AOC1-B97-D0.5	12/20/17	1355	G	S	1			X	X			
AOC1-B97-D1.5	12/20/17	1400	G	S	1							Hold
AOC1-B97-D2.5	12/20/17	1405	G	S	1							Hold
AOC1-B96-D0.5	12/20/17	1410	G	S	1			X	X			
AOC1-B96-D1.5	12/20/17	1415	G	S	1							Hold
AOC1-B96-D2.5	12/20/17	1420	G	S	1							Hold
AOC1-B95-D0.5	12/20/17	1425	G	S	1			X	X	X		
AOC1-B95-D1.5	12/20/17	1430	G	S	1							Hold
AOC1-B95-D2.5	12/20/17	1435	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B93-D0.5	12/20/17	1440	G	S	1			X	X			
AOC1-B93-D1.5	12/20/17	1445	G	S	1							Hold
AOC1-B93-D2.5	12/20/17	1450	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Tran, Dennis Lam

From: King, Justin <Justin.King@parsons.com>
Sent: Wednesday, January 03, 2018 1:46 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: RE: Reseda

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Dennis
Can you have Pb run for STLC for the following soil samples?
AOC1-B6-D0.5
AOC1-B34-D0.5
AOC1-B108-D0.5
AOC1-B100-D0.5
Thanks,
Justin

From: Tran, Dennis Lam [mailto:Dennis.Tran@testamericainc.com]
Sent: Wednesday, January 03, 2018 8:30 AM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: RE: Reseda

Good morning Justin,

AOC3-B1, primary and dup, are going to be reported separately as job J198799-2.

I will go ahead and make the changes you have outlined in the email below; this email should be sufficient enough.

DENNIS TRAN
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3236
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Tuesday, January 02, 2018 5:02 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: FW: Reseda

-External Email-

Hi Dennis
Patty is the project manager for a job that we conducted at the Reseda High School. I had a question regarding the analysis of dioxin and furans for lab report J198799. We requested a primary sample and dup to be analyzed but it was not reported.
I also submitted number of samples to be held. I would like to run some of those samples as outlined below. Do you need me to amend the original COC to request the analysis or submit a new COC? Or will this email suffice? (Lab ID numbers for the samples are J198798, J198799, J198876, J199093). Please let me know if you need further clarification.
Thanks

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

From: King, Justin
Sent: Tuesday, January 02, 2018 4:56 PM
To: patty.mata@testamericainc.com
Subject: Reseda

Hi Patty
I did not see the results of the dioxin and furan testing for AOC3-B1. Were you going to report that separately?
Also, I will need the follow held samples analyzed.

- AOC1-B1-D1.5 and AOC1-B1-D2.5 for Arsenic.
- AOC1-B6-D1.5 and AOC1-B6-D2.5 for Lead
- AOC1-B8-D1.5 and AOC1-B8-D2.5 for Arsenic
- AOC1-B10-D1.5 and AOC1-B10-D2.5 for Arsenic
- AOC1-B22-D1.5 and AOC1-B22-D2.5 for Arsenic
- AOC1-B34-D1.5 and AOC1-B34-D2.5 for Lead
- AOC1-B58-D1.5 and AOC1-B58-D2.5 for Arsenic
- AOC1-B64-D1.5 and AOC1-B64-D2.5 for Arsenic
- AOC1-B77-D1.5 and AOC1-B77-D2.5 for Arsenic
- AOC1-B78-D1.5 and AOC1-B78-D2.5 for Arsenic

- AOC1-B81-D1.5 and AOC1-B81-D2.5 for Arsenic
- AOC1-B91-D1.5 and AOC1-B91-D2.5 for Arsenic
- AOC-B100-D1.5 and AOC1-B100-D2.5 for Lead
- AOC1-B108-D1.5 and AOC1-B109-D2.5 for Arsenic and Lead
- AOC1-B112-D1.5 and AOC1-B112-D2.5 for Arsenic

Please let me know if I need to amend the individual COCs to include the analysis request or send you a new COC.
Thanks
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198876-2

Login Number: 198876

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date on page 7of10 of COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date page 7 of 10 of COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198876-3
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/16/2018 8:20:41 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 9
QC Association Summary 10
Definitions/Glossary 11
Certification Summary 12
Chain of Custody 13
Receipt Checklists 24

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198876-70	AOC1-B1-D1.5	Solid	12/20/17 12:30	12/20/17 18:25
440-198876-71	AOC1-B1-D2.5	Solid	12/20/17 12:35	12/20/17 18:25

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Job ID: 440-198876-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198876-3

Comments
No additional comments.

Receipt
The samples were received on 12/20/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 2.7º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Client Sample ID: AOC1-B1-D1.5 — Lab Sample ID: 440-198876-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-D2.5 — Lab Sample ID: 440-198876-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Client Sample ID: AOC1-B1-D1.5

Lab Sample ID: 440-198876-70

Date Collected: 12/20/17 12:30

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		01/12/18 08:38	01/12/18 16:45	5

Client Sample ID: AOC1-B1-D2.5

Lab Sample ID: 440-198876-71

Date Collected: 12/20/17 12:35

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		01/12/18 08:38	01/12/18 16:47	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Client Sample ID: AOC1-B1-D1.5

Lab Sample ID: 440-198876-70

Date Collected: 12/20/17 12:30

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	451344	01/12/18 08:38	DT	TAL IRV
Total/NA	Analysis	6010B		5			451478	01/12/18 16:45	K1E	TAL IRV

Client Sample ID: AOC1-B1-D2.5

Lab Sample ID: 440-198876-71

Date Collected: 12/20/17 12:35

Matrix: Solid

Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	451344	01/12/18 08:38	DT	TAL IRV
Total/NA	Analysis	6010B		5			451478	01/12/18 16:47	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-451344/1-A ^5
Matrix: Solid
Analysis Batch: 451478

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 451344

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/12/18 08:38	01/12/18 16:15	5

Lab Sample ID: LCS 440-451344/2-A ^5
Matrix: Solid
Analysis Batch: 451478

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 451344

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	46.8		mg/Kg		94	80 - 120

Lab Sample ID: 440-200511-A-1-B MS ^5
Matrix: Solid
Analysis Batch: 451478

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 451344

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		49.5	49.0		mg/Kg		99	75 - 125

Lab Sample ID: 440-200511-A-1-C MSD ^5
Matrix: Solid
Analysis Batch: 451478

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 451344

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		49.8	47.5		mg/Kg		95	75 - 125	3	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Metals

Prep Batch: 451344

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-70	AOC1-B1-D1.5	Total/NA	Solid	3050B	
440-198876-71	AOC1-B1-D2.5	Total/NA	Solid	3050B	
MB 440-451344/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-451344/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-200511-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-200511-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 451478

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198876-70	AOC1-B1-D1.5	Total/NA	Solid	6010B	451344
440-198876-71	AOC1-B1-D2.5	Total/NA	Solid	6010B	451344
MB 440-451344/1-A ^5	Method Blank	Total/NA	Solid	6010B	451344
LCS 440-451344/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	451344
440-200511-A-1-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	451344
440-200511-A-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	451344

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198876-3

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 12 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B21-D0.5	12/20/17	0720	G	S	1			X	X	X		
AOC1-B21-D1.5	12/20/17	0725	G	S	1							Hold
AOC1-B21-D2.5	12/20/17	0730	G	S	1							Hold
AOC1-B21-D0.5-Dup	12/20/17	0720	G	S	1			X	X	X		
AOC1-B18-D0.5	12/20/17	0735	G	S	1			X	X	X		
AOC1-B18-D1.5	12/20/17	0740	G	S	1							Hold
AOC1-B18-D2.5	12/20/17	0745	G	S	1							Hold
AOC1-B18-D0.5-Dup	12/20/17	0735	G	S	1			X	X	X		
AOC1-B17-D0.5	12/20/17	0730	G	S	1			X	X	X		
AOC1-B17-D1.5	12/20/17	0735	G	S	1							Hold
AOC1-B17-D2.5	12/20/17	0750	G	S	1							Hold
EB12017	12/20/17	0700	G	S	4			X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by

440-198876 Chain of Custody

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1430	Received by:	Company: TA	Date/Time: 12/20/17 1430
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 13 of 24

1/16/2018

12/21/17 14:30

1.4/2.0 2.1/2.7

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B16-D0.5	12/20/17	0805	G	S	1			X	X	X AN		
AOC1-B16-D1.5	12/20/17	0810	G	S	1							Hold
AOC1-B16-D2.5	12/20/17	0815	G	S	1							Hold
AOC1-B14-D0.5	12/20/17	0820	G	S	1			X	X			
AOC1-B14-D1.5	12/20/17	0825	G	S	1							Hold
AOC1-B14-D2.5	12/20/17	0830	G	S	1							
AOC1-B18-D0.5	12/20/17	0835	G	S	1			X	X	X		
AOC1-B28-D1.5	12/20/17	0840	G	S	1							Hold
AOC1-B28-D2.5	12/20/17	0845	G	S	1					X MW		Hold
AOC2-B2-D0.5	12/20/17	0850	G	S	1					X		
AOC2-B2-D1.5	12/20/17	0855	G	S	1							Hold
AOC2-B2-D2.5	12/20/17	0900	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC2-B1-D0.5	12/20/17	0905	G	S	1					X		
AOC2-B1-D1.5	12/20/17	0910	G	S	1					X		Hold
AOC2-B1-D2.5	12/20/17	0915	G	S	1							Hold
AOC2-B1-D0.5-Dup	12/20/17	0905	G	S	1					X		
AOC1-B29-D0.5	12/20/17	0910	G	S	1			X	X			
AOC1-B29-D1.5	12/20/17	0915	G	S	1							Hold
AOC1-B29-D2.5	12/20/17	0920	G	S	1							Hold
AOC1-B26-D0.5	12/20/17	0925	G	S	1			X	X			
AOC1-B26-D1.5	12/20/17	0930	G	S	1							Hold
AOC1-B26-D2.5	12/20/17	0935	G	S	1							Hold
AOC1-B28-D0.5-Dup	12/20/17	0835	G	S	1			X	X			

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450	
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B25-D0.5	12/20/17	0940	G	S	1			X	X	X		
AOC1-B25-D1.5	12/20/17	0945	G	S	1							H.Id
AOC1-B25-D2.5	12/20/17	0950	G	S	1							H.Id
AOC1-B24-D0.5	12/20/17	0955	G	S	1			X	X			
AOC1-B24-D1.5	12/20/17	1000	G	S	1							H.Id
AOC1-B24-D2.5	12/20/17	1005	G	S	1							H.Id
AOC1-B27-D0.5	12/20/17	1010	G	S	1			X	X			
AOC1-B27-D1.5	12/20/17	1015	G	S	1							H.Id
AOC1-B27-D2.5	12/20/17	1020	G	S	1							H.Id
AOC1-B23-D0.5	12/20/17	1025	G	S	1			X	X			
AOC1-B23-D1.5	12/20/17	1030	G	S	1							H.Id
AOC1-B23-D2.5	12/20/17	1035	G	S	1							H.Id

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: T-7	Date/Time: 12/20/17 1450
Relinquished by:	Company: TAI	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B12-D0.5	12/20/17	1040	G	S	1			X	X	X		
AOC1-B12-D1.5	12/20/17	1045	G	S	1							Hold
AOC1-B12-D2.5	12/20/17	1050	G	S	1							Hold
AOC1-B11-D0.5	12/20/17	1055	G	S	1			X	X			
AOC1-B11-D1.5	12/20/17	1100	G	S	1							Hold
AOC1-B11-D2.5	12/20/17	1105	G	S	1							Hold
AOC1-B10-D0.5	12/20/17	1110	G	S	1			X	X			
AOC1-B10-D1.5	12/20/17	1115	G	S	1							Hold
AOC1-B10-D2.5	12/20/17	1120	G	S	1							Hold
AOC1-B9-D0.5	12/20/17	1125	G	S	1			X	X			
AOC1-B9-D1.5	12/20/17	1130	G	S	1							Hold
AOC1-B9-D2.5	12/20/17	1135	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ___

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ___ Corr'd: ___		Therm ID No.: ___
Relinquished by:	Company: PBS Inc	Date/Time: 12/20/17 1400	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AoC1-B6-D0.5	12/20/17	1140	G	S	1			X	X			
AoC1-B6-D1.5	12/20/17	1145	G	S	1							Hold
AoC1-B6-D2.5	12/20/17	1150	G	S	1							Hold
AoC1-B3-D0.5	12/20/17	1155	G	S	1			X	X			
AoC1-B3-D1.5	12/20/17	1200	G	S	1							Hold
AoC1-B3-D2.5	12/20/17	1205	G	S	1							Hold
AoC1-B2-D0.5	12/20/17	1210	G	S	1			X	X			
AoC1-B2-D1.5	12/20/17	1215	G	S	1							Hold
AoC1-B2-D2.5	12/20/17	1220	G	S	1							Hold
AoC1-B1-D0.5	12/20/17	1225	G	S	1			X	X			
AoC1-B1-D1.5	12/20/17	1230	G	S	1							Hold
AoC1-B1-D2.5	12/20/17	1235	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B4-D0.5		1240	G	S	1			X	X			
AOC1-B4-D1.5		1245	G	S	1							Hold
AOC1-B4-D2.5		1250	G	S	1							Hold
AOC1-B5-D0.5		1255	G	S	1			X	X			
AOC1-B5-D1.5		1300	G	S	1							Hold
AOC1-B5-D2.5		1305	G	S	1							Hold
AOC1-B8-D0.5		1310	G	S	1			X	X			
AOC1-B8-D1.5		1315	G	S	1							Hold
AOC1-B8-D2.5		1320	G	S	1							Hold
AOC1-B13-D0.5		1325	G	S	1			X	X			
AOC1-B13-D1.5		1330	G	S	1							Hold
AOC1-B13-D2.5		1335	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B94-D0.5	12/20/17	1340	G	S	1			X	X			
AOC1-B94-D1.5	12/20/17	1345	G	S	1							Hold
AOC1-B94-D2.5	12/20/17	1350	G	S	1							Hold
AOC1-B97-D0.5	12/20/17	1355	G	S	1			X	X			
AOC1-B97-D1.5	12/20/17	1400	G	S	1							Hold
AOC1-B97-D2.5	12/20/17	1405	G	S	1							Hold
AOC1-B96-D0.5	12/20/17	1410	G	S	1			X	X			
AOC1-B96-D1.5	12/20/17	1415	G	S	1							Hold
AOC1-B96-D2.5	12/20/17	1420	G	S	1							Hold
AOC1-B95-D0.5	12/20/17	1425	G	S	1			X	X	X		
AOC1-B95-D1.5	12/20/17	1430	G	S	1							Hold
AOC1-B95-D2.5	12/20/17	1435	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1450	Received by:	Company: TA	Date/Time: 12/20/17 1450
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/16/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B93-D0.5	12/20/17	1440	G	S	1			X	X			
AOC1-B93-D1.5	12/20/17	1445	G	S	1							Hold
AOC1-B93-D2.5	12/20/17	1450	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____

	Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
1		Parsons	12/20/17 1440		TA	12/20/17 1450
2		~~TA~~	12/20/17 1825			
3				Received in Laboratory by:	TA-I	12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Tran, Dennis Lam

From: King, Justin <Justin.King@parsons.com>
Sent: Tuesday, January 02, 2018 5:02 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: FW: Reseda

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Hi Dennis
Patty is the project manager for a job that we conducted at the Reseda High School. I had a question regarding the analysis of dioxin and furans for lab report J198799. We requested a primary sample and dup to be analyzed but it was not reported.
I also submitted number of samples to be held. I would like to run some of those samples as outlined below. Do you need me to amend the original COC to request the analysis or submit a new COC? Or will this email suffice? (Lab ID numbers for the samples are J198798, J198799, J198876, J199093). Please let me know if you need further clarification.
Thanks

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

From: King, Justin
Sent: Tuesday, January 02, 2018 4:56 PM
To: patty.mata@testamericainc.com
Subject: Reseda

Hi Patty
I did not see the results of the dioxin and furan testing for AOC3-B1. Were you going to report that separately?
Also, I will need the follow held samples analyzed.

- AOC1-B1-D1.5 and AOC1-B1-D2.5 for Arsenic.
- AOC1-B6-D1.5 and AOC1-B6-D2.5 for Lead
- AOC1-B8-D1.5 and AOC1-B8-D2.5 for Arsenic
- AOC1-B10-D1.5 and AOC1-B10-D2.5 for Arsenic
- AOC1-B22-D1.5 and AOC1-B22-D2.5 for Arsenic
- AOC1-B34-D1.5 and AOC1-B34-D2.5 for Lead
- AOC1-B58-D1.5 and AOC1-B58-D2.5 for Arsenic
- AOC1-B64-D1.5 and AOC1-B64-D2.5 for Arsenic
- AOC1-B77-D1.5 and AOC1-B77-D2.5 for Arsenic
- AOC1-B78-D1.5 and AOC1-B78-D2.5 for Arsenic

- AOC1-B81-D1.5 and AOC1-B81-D2.5 for Arsenic
- AOC1-B91-D1.5 and AOC1-B91-D2.5 for Arsenic
- AOC-B100-D1.5 and AOC1-B100-D2.5 for Lead
- AOC1-B108-D1.5 and AOC1-B109-D2.5 for Arsenic and Lead
- AOC1-B112-D1.5 and AOC1-B112-D2.5 for Arsenic

Please let me know if I need to amend the individual COCs to include the analysis request or send you a new COC.
Thanks
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198876-3

Login Number: 198876

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	False	No sample date on page 7of10 of COC, logged in per container labels.
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	False	No date page 7 of 10 of COC, logged in per container labels.
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199093-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
1/11/2018 4:28:06 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 8
Lab Chronicle 9
QC Sample Results 11
QC Association Summary 13
Definitions/Glossary 14
Certification Summary 15
Chain of Custody 16
Receipt Checklists 25

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199093-5	AOC1-B91-D1.5	Solid	12/21/17 07:40	12/21/17 19:12
440-199093-6	AOC1-B91-D2.5	Solid	12/21/17 07:45	12/21/17 19:12
440-199093-16	AOC1-B100-D0.5	Solid	12/21/17 08:35	12/21/17 19:12
440-199093-17	AOC1-B100-D1.5	Solid	12/21/17 08:40	12/21/17 19:12
440-199093-18	AOC1-B100-D2.5	Solid	12/21/17 08:45	12/21/17 19:12
440-199093-42	AOC1-B108-D0.5	Solid	12/21/17 10:35	12/21/17 19:12
440-199093-43	AOC1-B108-D1.5	Solid	12/21/17 10:40	12/21/17 19:12
440-199093-44	AOC1-B108-D2.5	Solid	12/21/17 10:45	12/21/17 19:12
440-199093-55	AOC1-B112-D1.5	Solid	12/21/17 11:40	12/21/17 19:12
440-199093-56	AOC1-B112-D2.5	Solid	12/21/17 11:45	12/21/17 19:12

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Job ID: 440-199093-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199093-2

Comments
Only the additional total Lead or Arsenic results, and the STLC Lead results are included in this report, per client's 1/3/18 email request.

Receipt
The samples were received on 12/21/2017 7:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 1.5º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Client Sample ID: AOC1-B91-D1.5 — Lab Sample ID: 440-199093-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-D2.5 — Lab Sample ID: 440-199093-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-D0.5 — Lab Sample ID: 440-199093-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	1.5		0.10	0.080	mg/L	20		6010B	STLC Citrate

Client Sample ID: AOC1-B100-D1.5 — Lab Sample ID: 440-199093-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.0		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-D2.5 — Lab Sample ID: 440-199093-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.4		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-D0.5 — Lab Sample ID: 440-199093-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	0.19		0.10	0.080	mg/L	20		6010B	STLC Citrate

Client Sample ID: AOC1-B108-D1.5 — Lab Sample ID: 440-199093-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.3		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-D2.5 — Lab Sample ID: 440-199093-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	8.3		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-D1.5 — Lab Sample ID: 440-199093-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-D2.5 — Lab Sample ID: 440-199093-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B91-D1.5 — **Lab Sample ID: 440-199093-5**
Date Collected: 12/21/17 07:40 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:56	5

Client Sample ID: AOC1-B91-D2.5 — **Lab Sample ID: 440-199093-6**
Date Collected: 12/21/17 07:45 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:58	5

Client Sample ID: AOC1-B100-D0.5 — **Lab Sample ID: 440-199093-16**
Date Collected: 12/21/17 08:35 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	1.5		0.10	0.080	mg/L			01/08/18 11:13	20

Client Sample ID: AOC1-B100-D1.5 — **Lab Sample ID: 440-199093-17**
Date Collected: 12/21/17 08:40 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.0		2.0	1.0	mg/Kg		01/03/18 15:15	01/04/18 17:26	5

Client Sample ID: AOC1-B100-D2.5 — **Lab Sample ID: 440-199093-18**
Date Collected: 12/21/17 08:45 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.4		2.0	1.0	mg/Kg		01/03/18 15:15	01/04/18 17:28	5

Client Sample ID: AOC1-B108-D0.5 — **Lab Sample ID: 440-199093-42**
Date Collected: 12/21/17 10:35 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	0.19		0.10	0.080	mg/L			01/08/18 11:15	20

Client Sample ID: AOC1-B108-D1.5 — **Lab Sample ID: 440-199093-43**
Date Collected: 12/21/17 10:40 — Matrix: Solid
Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.6		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 17:30	5
Lead	6.3		2.0	1.0	mg/Kg		01/03/18 15:15	01/04/18 17:30	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Client Sample ID: AOC1-B108-D2.5

Lab Sample ID: 440-199093-44

Date Collected: 12/21/17 10:45

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 17:32	5
Lead	8.3		2.0	1.0	mg/Kg		01/03/18 15:15	01/04/18 17:32	5

Client Sample ID: AOC1-B112-D1.5

Lab Sample ID: 440-199093-55

Date Collected: 12/21/17 11:40

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 17:34	5

Client Sample ID: AOC1-B112-D2.5

Lab Sample ID: 440-199093-56

Date Collected: 12/21/17 11:45

Matrix: Solid

Date Received: 12/21/17 19:12

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.2		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 17:36	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B91-D1.5

Lab Sample ID: 440-199093-5

Date Collected: 12/21/17 07:40

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 16:56	VS	TAL IRV

Client Sample ID: AOC1-B91-D2.5

Lab Sample ID: 440-199093-6

Date Collected: 12/21/17 07:45

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 16:58	VS	TAL IRV

Client Sample ID: AOC1-B100-D0.5

Lab Sample ID: 440-199093-16

Date Collected: 12/21/17 08:35

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	449937	01/03/18 21:39	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			450512	01/08/18 11:13	B1H	TAL IRV

Client Sample ID: AOC1-B100-D1.5

Lab Sample ID: 440-199093-17

Date Collected: 12/21/17 08:40

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:26	VS	TAL IRV

Client Sample ID: AOC1-B100-D2.5

Lab Sample ID: 440-199093-18

Date Collected: 12/21/17 08:45

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:28	VS	TAL IRV

Client Sample ID: AOC1-B108-D0.5

Lab Sample ID: 440-199093-42

Date Collected: 12/21/17 10:35

Matrix: Solid

Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.04 g	500 mL	449937	01/03/18 21:39	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			450512	01/08/18 11:15	B1H	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Client Sample ID: AOC1-B108-D1.5

Lab Sample ID: 440-199093-43

Date Collected: 12/21/17 10:40
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:30	VS	TAL IRV

Client Sample ID: AOC1-B108-D2.5

Lab Sample ID: 440-199093-44

Date Collected: 12/21/17 10:45
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:32	VS	TAL IRV

Client Sample ID: AOC1-B112-D1.5

Lab Sample ID: 440-199093-55

Date Collected: 12/21/17 11:40
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.99 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:34	VS	TAL IRV

Client Sample ID: AOC1-B112-D2.5

Lab Sample ID: 440-199093-56

Date Collected: 12/21/17 11:45
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	449864	01/03/18 15:15	DT	TAL IRV
Total/NA	Analysis	6010B		5			450131	01/04/18 17:36	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-449864/1-A ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449864

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		01/03/18 15:15	01/04/18 16:39	5
Lead	ND		2.0	1.0	mg/Kg		01/03/18 15:15	01/04/18 16:39	5

Lab Sample ID: LCS 440-449864/2-A ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	50.0	47.8		mg/Kg		96	80 - 120
Lead	50.0	48.5		mg/Kg		97	80 - 120

Lab Sample ID: 440-198876-A-79-B MS ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.7		50.0	54.3		mg/Kg		95	75 - 125
Lead	5.9		50.0	52.1		mg/Kg		92	75 - 125

Lab Sample ID: 440-198876-A-79-C MSD ^5
Matrix: Solid
Analysis Batch: 450131

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449864

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.7		50.0	52.7		mg/Kg		92	75 - 125	3	20
Lead	5.9		50.0	51.8		mg/Kg		92	75 - 125	1	20

Lab Sample ID: MB 440-449937/1-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			01/08/18 10:45	20

Lab Sample ID: LCS 440-449937/2-A ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	19.1		mg/L		96	80 - 120

Lab Sample ID: 440-198876-A-60-B MS ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	2.7		20.0	21.5		mg/L		94	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198876-A-60-B MSD ^20
Matrix: Solid
Analysis Batch: 450512

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	2.7		20.0	21.1		mg/L		92	75 - 125	2	20

Metals

Prep Batch: 449864

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-5	AOC1-B91-D1.5	Total/NA	Solid	3050B	
440-199093-6	AOC1-B91-D2.5	Total/NA	Solid	3050B	
440-199093-17	AOC1-B100-D1.5	Total/NA	Solid	3050B	
440-199093-18	AOC1-B100-D2.5	Total/NA	Solid	3050B	
440-199093-43	AOC1-B108-D1.5	Total/NA	Solid	3050B	
440-199093-44	AOC1-B108-D2.5	Total/NA	Solid	3050B	
440-199093-55	AOC1-B112-D1.5	Total/NA	Solid	3050B	
440-199093-56	AOC1-B112-D2.5	Total/NA	Solid	3050B	
MB 440-449864/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-449864/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198876-A-79-B MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198876-A-79-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Leach Batch: 449937

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-16	AOC1-B100-D0.5	STLC Citrate	Solid	CA WET Citrate	
440-199093-42	AOC1-B108-D0.5	STLC Citrate	Solid	CA WET Citrate	
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
440-198876-A-60-B MS ^20	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
440-198876-A-60-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Analysis Batch: 450131

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-5	AOC1-B91-D1.5	Total/NA	Solid	6010B	449864
440-199093-6	AOC1-B91-D2.5	Total/NA	Solid	6010B	449864
440-199093-17	AOC1-B100-D1.5	Total/NA	Solid	6010B	449864
440-199093-18	AOC1-B100-D2.5	Total/NA	Solid	6010B	449864
440-199093-43	AOC1-B108-D1.5	Total/NA	Solid	6010B	449864
440-199093-44	AOC1-B108-D2.5	Total/NA	Solid	6010B	449864
440-199093-55	AOC1-B112-D1.5	Total/NA	Solid	6010B	449864
440-199093-56	AOC1-B112-D2.5	Total/NA	Solid	6010B	449864
MB 440-449864/1-A ^5	Method Blank	Total/NA	Solid	6010B	449864
LCS 440-449864/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	449864
440-198876-A-79-B MS ^5	Matrix Spike	Total/NA	Solid	6010B	449864
440-198876-A-79-C MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	449864

Analysis Batch: 450512

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199093-16	AOC1-B100-D0.5	STLC Citrate	Solid	6010B	449937
440-199093-42	AOC1-B108-D0.5	STLC Citrate	Solid	6010B	449937
MB 440-449937/1-A ^20	Method Blank	STLC Citrate	Solid	6010B	449937
LCS 440-449937/2-A ^20	Lab Control Sample	STLC Citrate	Solid	6010B	449937
440-198876-A-60-B MS ^20	Matrix Spike	STLC Citrate	Solid	6010B	449937
440-198876-A-60-B MSD ^20	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	449937

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199093-2

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B90-D0.5	12/21/17	0720	G	S	1			X	X			
AOC1-B90-D1.5	12/21/17	0725	G	S	1							Hold
AOC1-B90-D2.5	12/21/17	0730	G	S	1							Hold
AOC1-B91-D0.5	12/21/17	0735	G	S	1			X	X			
AOC1-B91-D1.5	12/21/17	0740	G	S	1							Hold
AOC1-B91-D2.5	12/21/17	0745	G	S	1							Hold
AOC1-B92-D0.5	12/21/17	0750	G	S	1			X	X			
AOC1-B92-D1.5	12/21/17	0755	G	S	1							Hold
AOC1-B92-D2.5	12/21/17	0800	G	S	1							Hold
AOC1-B98-D0.5	12/21/17	0805	G	S	1			X	X			
AOC1-B98-D1.5	12/21/17	0810	G	S	1							Hold
AOC1-B98-D2.5	12/21/17	0815	G	S	1							Hold

440-199093 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/21/17	Received by:	TAL	12-21-17 1639
Relinquished by:	TAL	12-21-17 19:12	Received by:		
Relinquished by:			Received in Laboratory by:	TA-I	12/21/17 1912

TA-05 1.6/1.5

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1 - B99 - D0.5	12/21/17	0820	G	S	1			X	X			
AOC1 - B99 - D1.5	12/21/17	0825	G	S	1							Hold
AOC1 - B99 - D2.5	12/21/17	0830	G	S	1							Hold
AOC1 - B100 - D0.5	12/21/17	0835	G	S	1			X	X			
AOC1 - B100 - D1.5	12/21/17	0840	G	S	1							Hold
AOC1 - B100 - D2.5	12/21/17	0845	G	S	1							Hold
AOC1 - B101 - D0.5	12/21/17	0850	G	S	1			X	X	X		
AOC1 - B101 - D1.5	12/21/17	0855	G	S	1							Hold
AOC1 - B101 - D2.5	12/21/17	0900	G	S	1							Hold
AOC1 - B101 - D0.5 - Dup	12/21/17	0850	G	S	1			X	X	X		
EQ12/21/17	12/21/17	0700	G	S	4			X	X	X	X	Equipment Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: PARSONS	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 PM	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1412

IA-DS 1.6/1.5 5/1.4

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

1/11/2018

Chain of Custody Record

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B102-00.5	12/21/17	0905	G	S	1			X	X			
AOC1-B102-01.5	12/21/17	0910	G	S	1							Hold
AOC1-B102-02.5	12/21/17	0915	G	S	1							Hold
AOC1-B105-00.5	12/21/17	0920	G	S	1			X	X			
AOC1-B105-01.5	12/21/17	0925	G	S	1							Hold
AOC1-B105-02.5	12/21/17	0930	G	S	1							Hold
AOC1-B104-00.5	12/21/17	0935	G	S	1			X	X			
AOC1-B104-01.5	12/21/17	0940	G	S	1							Hold
AOC1-B104-02.5	12/21/17	0945	G	S	1							Hold
AOC1-B103-00.5	12/21/17	0950	G	S	1			X	X			
AOC1-B103-01.5	12/21/17	0955	G	S	1							Hold
AOC1-B103-01.5	12/21/17	1000	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 1912	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1912

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

IR-85 1.6/1.5 · 5/.4

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B106-D0.5	12/21/17	1005	G	S	1			X	X			
AOC1-B106-D1.5	12/21/17	1010	G	S	1							Hold
AOC1-B106-D2.5	12/21/17	1015	G	S	1							Hold
AOC1-B107-D0.5	12/21/17	1020	G	S	1			X	X			
AOC1-B107-D1.5	12/21/17	1025	G	S	1							Hold
AOC1-B107-D2.5	12/21/17	1030	G	S	1							Hold
AOC1-B108-D0.5	12/21/17	1035	G	S	1			X	X			
AOC1-B108-D1.5	12/21/17	1040	G	S	1							Hold
AOC1-B108-D2.5	12/21/17	1045	G	S	1							Hold
AOC1-B109-D0.5	12/21/17	1050	G	S	1			X	X			
AOC1-B109-D1.5	12/21/17	1055	G	S	1							Hold
AOC1-B109-D2.5	12/21/17	1100	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TAI	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAI	Date/Time: 12-21-17 1942	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI	Date/Time: 12/21/17 19R

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B111-0.5	12/21/17	1105	G	S	1			X	X			
AOC1-B111-1.5	12/21/17	1110	G	S	1							Hold
AOC1-B111-2.5	12/21/17	1115	G	S	1							Hold
AOC1-B110-0.5	12/21/17	1120	G	S	1			X	X			
AOC1-B110-1.5	12/21/17	1125	G	S	1							Hold
AOC1-B110-2.5	12/21/17	1130	G	S	1							Hold
AOC1-B112-0.5	12/21/17	1135	G	S	1			X	X			
AOC1-B112-1.5	12/21/17	1140	G	S	1							Hold
AOC1-B112-2.5	12/21/17	1145	G	S	1							Hold
AOC1-B113-0.5	12/21/17	1150	G	S	1			X	X			
AOC1-B113-1.5	12/21/17	1155	G	S	1							Hold
AOC1-B113-2.5	12/21/17	1200	G	S	1							Hold

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company: TA	Date/Time: 12-21-17 1639
Relinquished by:	Company:	Date/Time: 12-21-17 19:12	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1412

TA-BS 1.0/1.5

TestAmerica Irvine
'61 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B114-00.5	12/21/17	1205	G	S	1			X	X	X		
AOC1-B114-01.5	12/21/17	1210	G	S	1							Hold
AOC1-B114-02.5	12/21/17	1215	G	S	1							Hold
AOC1-B115-00.5	12/21/17	1220	G	S	1			X	X			
AOC1-B115-01.5	12/21/17	1225	G	S	1							Hold
AOC1-B115-02.5	12/21/17	1230	G	S	1							Hold
AOC1B114-00.5-Dup	12/21/17	1205	G	S	1			X	X	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.:_____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	12/21/17	Received by:	TAI	12-21-17 1639
Relinquished by:	TAI	12-21-17 1912	Received by:		
Relinquished by:			Received in Laboratory by:	TAI	12/21/17 1912

FD-85 1.6/1.9 5/.4

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Tran, Dennis Lam

From: King, Justin <Justin.King@parsons.com>
Sent: Wednesday, January 03, 2018 1:46 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: RE: Reseda

Follow Up Flag: Follow up
Flag Status: Flagged

-External Email-

Dennis
Can you have Pb run for STLC for the following soil samples?
AOC1-B6-D0.5
AOC1-B34-D0.5
AOC1-B108-D0.5
AOC1-B100-D0.5
Thanks,
Justin

From: Tran, Dennis Lam [mailto:Dennis.Tran@testamericainc.com]
Sent: Wednesday, January 03, 2018 8:30 AM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: RE: Reseda

Good morning Justin,

AOC3-B1, primary and dup, are going to be reported separately as job J198799-2.

I will go ahead and make the changes you have outlined in the email below; this email should be sufficient enough.

DENNIS TRAN
Project Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3236
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Tuesday, January 02, 2018 5:02 PM
To: Tran, Dennis Lam
Cc: Mata, Patty
Subject: FW: Reseda

-External Email-

Hi Dennis
Patty is the project manager for a job that we conducted at the Reseda High School. I had a question regarding the analysis of dioxin and furans for lab report J198799. We requested a primary sample and dup to be analyzed but it was not reported.
I also submitted number of samples to be held. I would like to run some of those samples as outlined below. Do you need me to amend the original COC to request the analysis or submit a new COC? Or will this email suffice? (Lab ID numbers for the samples are J198798, J198799, J198876, J199093). Please let me know if you need further clarification.
Thanks

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

From: King, Justin
Sent: Tuesday, January 02, 2018 4:56 PM
To: patty.mata@testamericainc.com
Subject: Reseda

Hi Patty
I did not see the results of the dioxin and furan testing for AOC3-B1. Were you going to report that separately?
Also, I will need the follow held samples analyzed.

- AOC1-B1-D1.5 and AOC1-B1-D2.5 for Arsenic.
- AOC1-B6-D1.5 and AOC1-B6-D2.5 for Lead
- AOC1-B8-D1.5 and AOC1-B8-D2.5 for Arsenic
- AOC1-B10-D1.5 and AOC1-B10-D2.5 for Arsenic
- AOC1-B22-D1.5 and AOC1-B22-D2.5 for Arsenic
- AOC1-B34-D1.5 and AOC1-B34-D2.5 for Lead
- AOC1-B58-D1.5 and AOC1-B58-D2.5 for Arsenic
- AOC1-B64-D1.5 and AOC1-B64-D2.5 for Arsenic
- AOC1-B77-D1.5 and AOC1-B77-D2.5 for Arsenic
- AOC1-B78-D1.5 and AOC1-B78-D2.5 for Arsenic

- AOC1-B81-D1.5 and AOC1-B81-D2.5 for Arsenic
- AOC1-B91-D1.5 and AOC1-B91-D2.5 for Arsenic
- AOC-B100-D1.5 and AOC1-B100-D2.5 for Lead
- AOC1-B108-D1.5 and AOC1-B109-D2.5 for Arsenic and Lead
- AOC1-B112-D1.5 and AOC1-B112-D2.5 for Arsenic

Please let me know if I need to amend the individual COCs to include the analysis request or send you a new COC.
Thanks
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199093-2

Login Number: 199093

List Source: TestAmerica Irvine

List Number: 1

Creator: Garcia, Veronica G

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-203718-2
Client Project/Site: Reseda HS PEA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
3/15/2018 9:35:13 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Method Summary 9
Lab Chronicle 10
QC Sample Results 13
QC Association Summary 14
Definitions/Glossary 15
Certification Summary 16
Chain of Custody 17
Receipt Checklists 36

Sample Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-203718-3	AOC1-B22-N5-D1.5	Solid	02/19/18 08:25	02/19/18 17:20
440-203718-4	AOC1-B22-N5-D2.5	Solid	02/19/18 08:30	02/19/18 17:20
440-203718-6	AOC1-B22-N10-D1.5	Solid	02/19/18 08:40	02/19/18 17:20
440-203718-7	AOC1-B22-N10-D2.5	Solid	02/19/18 08:45	02/19/18 17:20
440-203718-14	AOC1-B22-S5-D1.5	Solid	02/19/18 09:10	02/19/18 17:20
440-203718-15	AOC1-B22-S5-D2.5	Solid	02/19/18 09:15	02/19/18 17:20
440-203718-17	AOC1-B22-S10-D1.5	Solid	02/19/18 09:25	02/19/18 17:20
440-203718-18	AOC1-B22-S10-D2.5	Solid	02/19/18 09:30	02/19/18 17:20
440-203718-101	AOC1-B112-N5-D1.5	Solid	02/19/18 13:10	02/19/18 17:20
440-203718-102	AOC1-B112-N5-D2.5	Solid	02/19/18 13:12	02/19/18 17:20
440-203718-104	AOC1-B112-N10-D1.5	Solid	02/19/18 13:16	02/19/18 17:20
440-203718-105	AOC1-B112-N10-D2.5	Solid	02/19/18 13:18	02/19/18 17:20
440-203718-131	AOC1-B8-S10-D1.5	Solid	02/19/18 14:17	02/19/18 17:20
440-203718-132	AOC1-B8-S10-D2.5	Solid	02/19/18 14:18	02/19/18 17:20

Job ID: 440-203718-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-203718-2

Comments
Only the additional test results requested on 3/9/18 are included in this report.

Receipt
The samples were received on 2/19/2018 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.5º C, 3.1º C and 3.3º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Client Sample ID: AOC1-B22-N5-D1.5 — Lab Sample ID: 440-203718-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N5-D2.5 — Lab Sample ID: 440-203718-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N10-D1.5 — Lab Sample ID: 440-203718-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N10-D2.5 — Lab Sample ID: 440-203718-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S5-D1.5 — Lab Sample ID: 440-203718-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S5-D2.5 — Lab Sample ID: 440-203718-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S10-D1.5 — Lab Sample ID: 440-203718-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S10-D2.5 — Lab Sample ID: 440-203718-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N5-D1.5 — Lab Sample ID: 440-203718-101

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N5-D2.5 — Lab Sample ID: 440-203718-102

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N10-D1.5 — Lab Sample ID: 440-203718-104

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Client Sample ID: AOC1-B112-N10-D1.5 (Continued) — Lab Sample ID: 440-203718-104

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N10-D2.5 — Lab Sample ID: 440-203718-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S10-D1.5 — Lab Sample ID: 440-203718-131

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S10-D2.5 — Lab Sample ID: 440-203718-132

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B22-N5-D1.5 — **Lab Sample ID: 440-203718-3**
Date Collected: 02/19/18 08:25 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 18:56	5

Client Sample ID: AOC1-B22-N5-D2.5 — **Lab Sample ID: 440-203718-4**
Date Collected: 02/19/18 08:30 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:17	5

Client Sample ID: AOC1-B22-N10-D1.5 — **Lab Sample ID: 440-203718-6**
Date Collected: 02/19/18 08:40 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:31	5

Client Sample ID: AOC1-B22-N10-D2.5 — **Lab Sample ID: 440-203718-7**
Date Collected: 02/19/18 08:45 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:34	5

Client Sample ID: AOC1-B22-S5-D1.5 — **Lab Sample ID: 440-203718-14**
Date Collected: 02/19/18 09:10 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.1		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:52	5

Client Sample ID: AOC1-B22-S5-D2.5 — **Lab Sample ID: 440-203718-15**
Date Collected: 02/19/18 09:15 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:54	5

Client Sample ID: AOC1-B22-S10-D1.5 — **Lab Sample ID: 440-203718-17**
Date Collected: 02/19/18 09:25 — Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:57	5

Client Sample ID: AOC1-B22-S10-D2.5 — **Lab Sample ID: 440-203718-18**
Date Collected: 02/19/18 09:30 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:59	5

Client Sample ID: AOC1-B112-N5-D1.5 — **Lab Sample ID: 440-203718-101**
Date Collected: 02/19/18 13:10 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 21:01	5

Client Sample ID: AOC1-B112-N5-D2.5 — **Lab Sample ID: 440-203718-102**
Date Collected: 02/19/18 13:12 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:19	5

Client Sample ID: AOC1-B112-N10-D1.5 — **Lab Sample ID: 440-203718-104**
Date Collected: 02/19/18 13:16 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:22	5

Client Sample ID: AOC1-B112-N10-D2.5 — **Lab Sample ID: 440-203718-105**
Date Collected: 02/19/18 13:18 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:24	5

Client Sample ID: AOC1-B8-S10-D1.5 — **Lab Sample ID: 440-203718-131**
Date Collected: 02/19/18 14:17 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:27	5

Client Sample ID: AOC1-B8-S10-D2.5 — **Lab Sample ID: 440-203718-132**
Date Collected: 02/19/18 14:18 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 20:29	5

Method Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B22-N5-D1.5

Lab Sample ID: 440-203718-3

Date Collected: 02/19/18 08:25

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 18:56	K1E	TAL IRV

Client Sample ID: AOC1-B22-N5-D2.5

Lab Sample ID: 440-203718-4

Date Collected: 02/19/18 08:30

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:17	K1E	TAL IRV

Client Sample ID: AOC1-B22-N10-D1.5

Lab Sample ID: 440-203718-6

Date Collected: 02/19/18 08:40

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:31	K1E	TAL IRV

Client Sample ID: AOC1-B22-N10-D2.5

Lab Sample ID: 440-203718-7

Date Collected: 02/19/18 08:45

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:34	K1E	TAL IRV

Client Sample ID: AOC1-B22-S5-D1.5

Lab Sample ID: 440-203718-14

Date Collected: 02/19/18 09:10

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:52	K1E	TAL IRV

Client Sample ID: AOC1-B22-S5-D2.5

Lab Sample ID: 440-203718-15

Date Collected: 02/19/18 09:15

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:54	K1E	TAL IRV

Client Sample ID: AOC1-B22-S10-D1.5 — **Lab Sample ID: 440-203718-17**
Date Collected: 02/19/18 09:25 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:57	K1E	TAL IRV

Client Sample ID: AOC1-B22-S10-D2.5 — **Lab Sample ID: 440-203718-18**
Date Collected: 02/19/18 09:30 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:59	K1E	TAL IRV

Client Sample ID: AOC1-B112-N5-D1.5 — **Lab Sample ID: 440-203718-101**
Date Collected: 02/19/18 13:10 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 21:01	K1E	TAL IRV

Client Sample ID: AOC1-B112-N5-D2.5 — **Lab Sample ID: 440-203718-102**
Date Collected: 02/19/18 13:12 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:19	K1E	TAL IRV

Client Sample ID: AOC1-B112-N10-D1.5 — **Lab Sample ID: 440-203718-104**
Date Collected: 02/19/18 13:16 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:22	K1E	TAL IRV

Client Sample ID: AOC1-B112-N10-D2.5 — **Lab Sample ID: 440-203718-105**
Date Collected: 02/19/18 13:18 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:24	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Client Sample ID: AOC1-B8-S10-D1.5

Lab Sample ID: 440-203718-131

Date Collected: 02/19/18 14:17

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:27	K1E	TAL IRV

Client Sample ID: AOC1-B8-S10-D2.5

Lab Sample ID: 440-203718-132

Date Collected: 02/19/18 14:18

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462585	03/09/18 11:12	DT	TAL IRV
Total/NA	Analysis	6010B		5			462787	03/09/18 20:29	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-462585/1-A ^5
Matrix: Solid
Analysis Batch: 462787

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462585

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/09/18 11:12	03/09/18 18:51	5

Lab Sample ID: LCS 440-462585/2-A ^5
Matrix: Solid
Analysis Batch: 462787

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462585

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			49.8	51.3		mg/Kg		103	80 - 120		

Lab Sample ID: 440-203718-3 MS
Matrix: Solid
Analysis Batch: 462787

Client Sample ID: AOC1-B22-N5-D1.5
Prep Type: Total/NA
Prep Batch: 462585

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	11		50.0	57.9		mg/Kg		95	75 - 125		

Lab Sample ID: 440-203718-3 MSD
Matrix: Solid
Analysis Batch: 462787

Client Sample ID: AOC1-B22-N5-D1.5
Prep Type: Total/NA
Prep Batch: 462585

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.8	59.4		mg/Kg		98	75 - 125	2	20

Metals

Prep Batch: 462585

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-3	AOC1-B22-N5-D1.5	Total/NA	Solid	3050B	
440-203718-4	AOC1-B22-N5-D2.5	Total/NA	Solid	3050B	
440-203718-6	AOC1-B22-N10-D1.5	Total/NA	Solid	3050B	
440-203718-7	AOC1-B22-N10-D2.5	Total/NA	Solid	3050B	
440-203718-14	AOC1-B22-S5-D1.5	Total/NA	Solid	3050B	
440-203718-15	AOC1-B22-S5-D2.5	Total/NA	Solid	3050B	
440-203718-17	AOC1-B22-S10-D1.5	Total/NA	Solid	3050B	
440-203718-18	AOC1-B22-S10-D2.5	Total/NA	Solid	3050B	
440-203718-101	AOC1-B112-N5-D1.5	Total/NA	Solid	3050B	
440-203718-102	AOC1-B112-N5-D2.5	Total/NA	Solid	3050B	
440-203718-104	AOC1-B112-N10-D1.5	Total/NA	Solid	3050B	
440-203718-105	AOC1-B112-N10-D2.5	Total/NA	Solid	3050B	
440-203718-131	AOC1-B8-S10-D1.5	Total/NA	Solid	3050B	
440-203718-132	AOC1-B8-S10-D2.5	Total/NA	Solid	3050B	
MB 440-462585/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-462585/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-3 MS	AOC1-B22-N5-D1.5	Total/NA	Solid	3050B	
440-203718-3 MSD	AOC1-B22-N5-D1.5	Total/NA	Solid	3050B	

Analysis Batch: 462787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-3	AOC1-B22-N5-D1.5	Total/NA	Solid	6010B	462585
440-203718-4	AOC1-B22-N5-D2.5	Total/NA	Solid	6010B	462585
440-203718-6	AOC1-B22-N10-D1.5	Total/NA	Solid	6010B	462585
440-203718-7	AOC1-B22-N10-D2.5	Total/NA	Solid	6010B	462585
440-203718-14	AOC1-B22-S5-D1.5	Total/NA	Solid	6010B	462585
440-203718-15	AOC1-B22-S5-D2.5	Total/NA	Solid	6010B	462585
440-203718-17	AOC1-B22-S10-D1.5	Total/NA	Solid	6010B	462585
440-203718-18	AOC1-B22-S10-D2.5	Total/NA	Solid	6010B	462585
440-203718-101	AOC1-B112-N5-D1.5	Total/NA	Solid	6010B	462585
440-203718-102	AOC1-B112-N5-D2.5	Total/NA	Solid	6010B	462585
440-203718-104	AOC1-B112-N10-D1.5	Total/NA	Solid	6010B	462585
440-203718-105	AOC1-B112-N10-D2.5	Total/NA	Solid	6010B	462585
440-203718-131	AOC1-B8-S10-D1.5	Total/NA	Solid	6010B	462585
440-203718-132	AOC1-B8-S10-D2.5	Total/NA	Solid	6010B	462585
MB 440-462585/1-A ^5	Method Blank	Total/NA	Solid	6010B	462585
LCS 440-462585/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	462585
440-203718-3 MS	AOC1-B22-N5-D1.5	Total/NA	Solid	6010B	462585
440-203718-3 MSD	AOC1-B22-N5-D1.5	Total/NA	Solid	6010B	462585

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-2

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmei Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. h of Custody Record

Test-merica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☑ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-NW5-D2.5-D	2/19/18	1124	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5-D	2/19/18	1202	G	S	1	N	Y	X		
AOC1-B78-SW10-D0.5-D	2/19/18	1214	G	S	1	N	Y	X		
AOC1-B78-SE5-D1.5-D	2/19/18	1222	G	S	1	N	Y	X		
AOC1-B78-NW10-E0.5	2/19/18	1202	G	S	1	N		X		
AOC1-B78-NW10-E1.5	2/19/18	1204	G	S	1	N		X		
AOC1-B78-NW10-E2.5	2/19/18	1206	G	S	1	N		H		
AOC1-B78-SW5-E0.5	2/19/18	1208	G	S	1	N		X		
AOC1-B78-SW5-E1.5	2/19/18	1210	G	S	1	N		X		
AOC1-B78-SW5-E2.5	2/19/18	1212	G	S	1	N		H		
AOC1-B81-SW5-E1.5	2/19/18	1246	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1226	G	S	1	N		X		

Preservation Codes: 1=None; 2=Ice; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other ___ 1

AOC1-B81-NW5-D1.5-D
NP

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd ___ Corr'd: ___	Therm ID No.: ___
Relinquished by	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wesley Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wesley Rivera	Company. TA-IRV	Date/Time 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Cineles	Company TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B81-NE10-D0.5	2/19/18	1238	G	S	1	N		X		
AOC1-B81-NE10-D1.5	2/19/18	1240	G	S	1	N		X		
AOC1-B81-NE10-D2.5	2/19/18	1242	G	S	1	N		X		
AOC1-B81-SW5-D0.5	2/19/18	1244	G	S	1	N		X		
AOC1-B81-SW5-D1.5	2/19/18	1246	G	S	1	N		X		Change to AOC1-B81-SW5-D1.5-D
AOC1-B81-SW5-D2.5	2/19/18	1248	G	S	1	N		X		
AOC1-B81-SW10-D0.5	2/19/18	1250	G	S	1	N		X		
AOC1-B81-SW10-D1.5	2/19/18	1252	G	S	1	N		X		
AOC1-B81-SW10-D2.5	2/19/18	1254	G	S	1	N		X		
AOC1-B81-SE5-D0.5	2/19/18	1256	G	S	1	N		X		
AOC1-B81-SE5-D1.5	2/19/18	1258	G	S	1	N		X		
AOC1-B81-SE5-D2.5	2/19/18	1300	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1.

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No..		Cooler Temp. (°C): Obs'd ___ Corr'd ___	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Will. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Will. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Mireles	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949 260.3299

Ch. , of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling.
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes.
~ 02/19/18	2/19/18	0730	G	W	1	N		X	X	
AOC1-B22-N5-D0.5	2/19/18	0820	G	S	1	N		X		
AOC1-B22-N5-D1.5	2/19/18	0825	G	S	1	N		H		
AOC1-B22-N5-D2.5	2/19/18	0830	G	S	1	N		H		
AOC1-B22-N10-D0.5	2/19/18	0835	G	S	1	N		X		
AOC1-B22-N10-D1.5	2/19/18	0840	G	S	1	N		H		
AOC1-B22-N10-D2.5	2/19/18	0845	G	S	1	N		H		
AOC1-B22-E5-D0.5	2/19/18	0850	G	S	1	N		X		
AOC1-B22-E5-D1.5	2/19/18	0855	G	S	1	N		H		
AOC1-B22-E5-D2.5	2/19/18	0900	G	S	1	N		H		
AOC1-B22-N10-D0.5-D	2/19/18	0835	G	S	1	N	Y	X		
AOC1-B100-E5-D0.5-D	2/19/18	1050	G	S	1	N	Y		X	

02/19/18 2/19/18

440-203718 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____

Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by	Company.	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by: Olga Olivelas	Company: TA IRV	Date/Time: 2/19/18 17:20

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

2.0/1.5; 3.6/3.1, 1.8/1.3; 3.8/3.3 #506

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch[illegible] of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B22-SS-0.5	2/19/18	0905	G	S	1	N		Y		
AOC1-B22-SS-1.5	2/19/18	0910	G	S	1	N		H		
AOC1-B22-SS-2.5	2/19/18	0915	G	S	1	N		H		
AOC1-B22-S10-0.5	2/19/18	0920	G	S	1	N		X		
AOC1-B22-S10-1.5	2/19/18	0925	G	S	1	N		H		
AOC1-B22-S10-2.5	2/19/18	0930	G	S	1	N		H		
AOC1-B100-N5-0.5	2/19/18	0935	G	S	1	N			X	
AOC1-B100-N5-1.5	2/19/18	0940	G	S	1	N			H	
AOC1-B100-N5-2.5	2/19/18	0945	G	S	1	N			H	
AOC1-B100-W5-0.5	2/19/18	0950	G	S	1	N			X	
AOC1-B100-W5-1.5	2/19/18	0955	G	S	1	N			H	
AOC1-B100-W5-2.5	2/19/18	1000	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____1____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilbert Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by Wilbert Rivera	Company TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by: Olga Cinelas	Company TA IRV	Date/Time: 2/19/18 17:20

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmeri. .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 15 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B100-W10-00.5	2/19/18	1005	G	S	1	N			X	
AOC1-B100-W10-01.5	2/19/18	1010	G	S	1	N			H	
AOC1-B100-W10-02.5	2/19/18	1015	G	S	1	N			H	
AOC1-B100-S5-0.5	2/19/18	1020	G	S	1	N			X	
AOC1-B100-S5-1.5	2/19/18	1025	G	S	1	N			H	
AOC1-B100-S5-2.5	2/19/18	1030	G	S	1	N			H	
AOC1-B100-S10-00.5	2/19/18	1035	G	S	1	N			X	
AOC1-B100-S10-01.5	2/19/18	1040	G	S	1	N			H	
AOC1-B100-S10-02.5	2/19/18	1045	G	S	1	N			H	
AOC1-B100-E5-00.5	2/19/18	1050	G	S	1	N			X	
AOC1-B100-E5-01.5	2/19/18	1055	G	S	1	N			H	
AOC1-B100-E5-02.5	2/19/18	1100	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by	Company. Parsons	Date/Time: 2/19/2018 1500	Received by: Wilch. Rivera	Company. TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilch. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by.	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company. TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmeri rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch of Custody Record

Testamerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes
AOC1-B100-E10-D0.5	2/19/18	1105	G	S	1	N		X		
AOC1-B100-E10-D1.5	2/19/18	1110	G	S	1	N			H	
AOC1-B100-E10-D2.5	2/19/18	1115	G	S	1	N			H	
AOC1-B77-NW5-D0.5	2/19/18	1120	G	S	1	N		X	X	
AOC1-B77-NW5-D1.5	2/19/18	1122	G	S	1	N		X		
AOC1-B77-NW5-D2.5	2/19/18	1124	G	S	1	N		X		
AOC1-B77-NW10-D0.5	2/19/18	1126	G	S	1	N		X		
AOC1-B77-NW10-D1.5	2/19/18	1128	G	S	1	N		X		
AOC1-B77-NW10-D2.5	2/19/18	1130	G	S	1	N		X		
AOC1-B77-SW5-D0.5	2/19/18	1132	G	S	1	N		X		
AOC1-B77-SW5-D1.5	2/19/18	1134	G	S	1	N		X		
AOC1-B77-SW5-D2.5	2/19/18	1136	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No:
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilfredo Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilfredo Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmeri. .rvine
17461 Denan Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Ch. . of Custody Record

Testamerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-SW10-D0.5	2/19/18	1138	G	S	1	N		X		
AOC1-B77-SW10-D1.5	2/19/18	1140	G	S	1	N		X		
AOC1_B77-SW10-D2.5	2/19/18	1142	G	S	1	N		X		
AOC1-B77-SE5-D1.5	2/19/18	1144	G	S	1	N		X		
AOC1-B77-SE5-D1.5	2/19/18	1146	G	S	1	N		X		
AOC1-B77-SE5-D2.5	2/19/18	1148	G	S	1	N		X		
AOC1-B77-SE10-D0.5	2/19/18	1150	G	S	1	N		X		
AOC1-B77-SE10-D1.5	2/19/18	1152	G	S	1	N		X		
AOC1-B77-SE10-D2.5	2/19/18	1154	G	S	1	N		X		
AOC1-B78-NW5-D0.5	2/19/18	1156	G	S	1	N		X		
AOC1-B78-NW5-D1.5	2/19/18	1158	G	S	1	N		X		
AOC1-B78-NW5-D2.5	2/19/18	1200	G	S	1	N		H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company. Parsons	Date/Time: 2/19/2018 1500	Received by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmei Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. h of Custody Record

Test America
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-NW5-D2.5-D	2/19/18	1124	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5-D	2/19/18	1202	G	S	1	N	Y	X		
AOC1_B78-SW10-D2.5-D	2/19/18	1219	G	S	1	N	Y	X		
AOC1-B78-SE5-D15-D	2/19/18	1222	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5	2/19/18	1202	G	S	1	N		X		
AOC1-B78-NW10-D1.5	2/19/18	1204	G	S	1	N		X		
AOC1-B78-NW10-D2.5	2/19/18	1206	G	S	1	N		H		
AOC1-B78-SW5-D0.5	2/19/18	1208	G	S	1	N		X		
AOC1-B78-SW5-D1.5	2/19/18	1210	G	S	1	N		X		
AOC1-B78-SW5-D2.5	2/19/18	1212	G	S	1	N		H		
AOC1-B81-SW5-D1.5	2/19/18	1246	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1226	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd _____ Corr'd:_____		Therm ID No.:_____
Relinquished by	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilda Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilda Rivera	Company. TA-IRV	Date/Time 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by. Olga Meles	Company TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmeri .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes.
AOC1-B78-SW10-D0.5	2/19/18	1214	G	S	1	N		X		
AOC1-B78-SW10-D1.5	2/19/18	1216	G	S	1	N		X		
AOC1-B78-SW10-D2.5	2/19/18	1218	G	S	1	N		H		
AOC1-B78-SE5-D0.5	2/19/18	1220	G	S	1	N		X		
AOC1-B78-SE5-D1.5	2/19/18	1222	G	S	1	N		X		
AOC1-B78-SE5-D2.5	2/19/18	1224	G	S	1	N		H		
AOC1-B81-NW5-D0.5	2/19/18	1226	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1228	G	S	1	N		X		
AOC1-B81-NW5-D2.5	2/19/18	1230	G	S	1	N		X		
AOC1-B81-NE5-D0.5	2/19/18	1232	G	S	1	N		X		
AOC1-B81-NE5-D1.5	2/19/18	1234	G	S	1	N		X		
AOC1-B81-NE5-D2.5	2/19/18	1236	G	S	1	N		V		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd._____ Corr'd._____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Will Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Will Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received in Laboratory by: Olga Cindes	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmeri rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-SB1-NE10-D0.5	2/19/18	1238	G	S	1	N		X		
AOC1-SB1-NE10-D1.5	2/19/18	1240	G	S	1	N		X		
AOC1-SB1-NE10-D2.5	2/19/18	1242	G	S	1	N		X		
AOC1-SB1-SW5-D0.5	2/19/18	1244	G	S	1	N		X		
AOC1-SB1-SW5-D1.5	2/19/18	1246	G	S	1	N		X		
AOC1-SB1-SW5-D2.5	2/19/18	1248	G	S	1	N		X		
AOC1-SB1-SW10-D0.5	2/19/18	1250	G	S	1	N		X		
AOC1-SB1-SW10-D1.5	2/19/18	1252	G	S	1	N		X		
AOC1-SB1-SW10-D2.5	2/19/18	1254	G	S	1	N		X		
AOC1-SB1-SE5-D0.5	2/19/18	1256	G	S	1	N		X		
AOC1-SB1-SE5-D1.5	2/19/18	1258	G	S	1	N		X		
AOC1-SB1-SE5-D2.5	2/19/18	1300	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..	Cooler Temp. (°C): Obs'd _____ Corr'd._____	Therm ID No.:_____

Relinquished by.	Company: Parsons	Date/Time. 2/19/2018 1500	Received by: Will. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Will. Rivera	Company TA-IRV	Date/Time: 2/19/18 1720	Received by.	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Morales	Company: TA IRV	Date/Time. 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Cl. n of Custody Record

Test America
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B81-SE10-D0.5	2/19/18	1302	G	S	1	N		X		
AOC1-B81-SE10-D1.5	2/19/18	1304	G	S	1	N		X		
AOC1-B81-SE10-D2.5	2/19/18	1306	G	S	1	N		X		
AOC1-B112-N5-D0.5	2/19/18	1308	G	S	1	N		X		
AOC1-B112-N5-D1.5	2/19/18	1310	G	S	1	N		H		
AOC1-B112-N5-D2.5	2/19/18	1312	G	S	1	N		H		
AOC1-B112-N10-D0.5	2/19/18	1314	G	S	1	N		X		
AOC1-B112-N10-D1.5	2/19/18	1316	G	S	1	N		H		
AOC1-B112-N10-D2.5	2/19/18	1318	G	S	1	N		H		
AOC1-B112-W5-D0.5	2/19/18	1320	G	S	1	N		X		
AOC1-B112-W5-D1.5	2/19/18	1322	G	S	1	N		H		
AOC1-B112-W5-D2.5	2/19/18	1324	G	S	1	N		H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:_____	Corr'd:_____	Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Willie Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Willie Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Tinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes.
AOC1-B 108-S10-0.5	2/19/18	1344	G	S	1	N		X	X	
AOC1-B108-S10-1.5	2/19/18	1346	G	S	1	N		H	H	
AOC1-B108 S10-2.5	2/19/18	1348	G	S	1	N		H	H	
AOC1-B6-N5.0.5	2/19/18	1336	G	S	1	N		X	X	
AOC1-B6-N5-1.5	2/19/18	1337	G	S	1	N		H	H	
AOC1-B6-N5-2.5	2/19/18	1334	G	S	1	N		H	H	
AOC1-B6-N10-0.5	2/19/18	1330	G	S	1	N		X	X	
AOC1-B6-N10-1.5	2/19/18	1332	G	S	1	N		H	H	
AOC1-B6-N10 1.2.5	2/19/18	1335	G	S	1	N		H	H	
AOC1-B6-W5-0.5	2/19/18	1340	G	S	1	N		X	X	
AOC1-B6-W5-1.5	2/19/18	1341	G	S	1	N		H	H	
AOC1-B6-W5-2.5	2/19/18	344	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: ____ Corr'd: ____ | Therm ID No.: ____

Relinquished by:	Company Parsons	Date/Time 2/19/2018 1500	Received by: Wiela Rivera	Company: TA-IRV	Date/Time 2/19/18 1500
Relinquished by: Wiela Rivera	Company: TA-IRV	Date/Time 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	11 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B6-W10-D0.5	2/19/18	1346	G	S	1	N				
AOC1-B6-W10-D1.5	2/19/18	1349	G	S	1	N				
AOC1-B6-W10-D2.5	2/19/18	1350	G	S	1	N				
AOC1-B6-S5-D0.5	2/19/18	1356	G	S	1	N				
AOC1-B6-S5-D1.5	2/19/18	1354	G	S	1	N				
AOC1-B6-S5-D2.5	2/19/18	1357	G	S	1	N				
AOC1-B6-S10-D0.5	2/19/18	1359	G	S	1	N				
AOC1-B6-S10-D1.5	2/19/18	1400	G	S	1	N				
AOC1-B6-S10-D2.5	2/19/18	1402	G	S	1	N				
AOC1-B8-S10-D0.5	2/19/18	1414	G	S	1	N				
AOC1-B8-S10-D1.5	2/19/18	1417	G	S	1	N				
AOC1-B8-S10-D2.5	2/19/18	1418	G	S	1	N				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by.	Company: Parsons	Date/Time: 2/19/2018 1500	Received by. Wella-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by. Wella-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company	Date/Time:	Received in Laboratory by: Edgar Cinelas	Company: TA-IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeric.. .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260.3299

Cha.. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	12 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
~~AOC1-B12-W10-D0.5-D~~	2/19/18	~~1326~~	G	S	1	N		X		
AOC1-B12-W10-D0.5	2/19/18	1326	G	S	1	N		X		
AOC1-B12-W10-D1.5	2/19/18	1328	G	S	1	N		H		
AOC1-B12-W10-D2.5	2/19/18	1330	G	S	1	N		H		
AOC1-B12-W5-D0.5-D	2/19/18	1326	G	S	1	N	Y	X		
AOC1-B108-E5-D0.5	2/19/18	1344	G	S	1	N		X	X	
AOC1-B108-E5-D1.5	2/19/18	1346	G	S	1	N		H	H	
AOC1-B108-E5-D2.5	2/19/18	1348	G	S	1	N		H	H	
AOC1-B108-S5-D0.5	2/19/18	1332	G	S	1	N		X	X	
AOC1-B108-S5-D1.5	2/19/18	1334	G	S	1	N		H	H	
AOC1-B108-S5-D2.5	2/19/18	1336	G	S	1	N		H	H	
AOC1-B108-S10-D0.5-D	2/19/18	1338	G	S	1	N	Y	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by	Company Parsons	Date/Time: 2/19/2018 1500	Received by: Wells-Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wells-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	13 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes.
AOC1-69-S10-0.5-R	2/19/18	1415	G	S	1	N	Y	X		
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd._____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wells Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wells Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Cinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Friday, March 09, 2018 8:44 AM
To: Kim, Martin C.
Cc: Mata, Patty
Subject: RE: Reseda Soil Sampling

-External Email-

Yes, lets do those samples. Thanks, Justin

From: Kim, Martin C. [mailto:Martin.Kim@testamericainc.com]
Sent: Friday, March 09, 2018 8:42 AM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: FW: Reseda Soil Sampling

Hello,

I was looking over the sample and two of the samples on your list do not exist.

- Analyze AOC1-B91-N10-D1.5-D for arsenic
- Analyze AOC1-B91-N10-D2.5-D for arsenic

These samples are not on either one of the jobs. However, I found AOC1-B91-N10-D1.5 and AOC1-B91-N10-D2.5 without the –D on one of the jobs. Was the –D a typo? Please confirm.

Thanks,

Martin Kim
Project Management Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3280
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: Mata, Patty
Sent: Thursday, March 08, 2018 7:02 PM
To: Kim, Martin C.
Subject: FW: Reseda Soil Sampling

Martin,

Do you have time to take samples off hold and add tests to a job -2 for the samples listed in the email below please?

Thanks,

PATTY MATA
Project Manager

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3213

www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Thursday, March 08, 2018 5:30 PM
To: Mata, Patty
Cc: Robinson, Dane
Subject: Reseda Soil Sampling

-External Email-

Hi Patty
I would like to take the below samples off of hold and analyze for the following analysis.

- Analyze AOC1-B8-S10-D1.5 for arsenic
- Analyze AOC1-B8-S10-D2.5 for arsenic
- Analyze AOC1-B10-N5-D1.5 for arsenic
- Analyze AOC1-B10-N5-D2.5 for arsenic
- Analyze AOC1-B10-W5-D1.5 for arsenic
- Analyze AOC1-B10-W5-D2.5 for arsenic
- Analyze AOC1-B22-N5-D1.5 for arsenic
- Analyze AOC1-B22-N5-D2.5 for arsenic
- Analyze AOC1-B22-N10-D1.5 for arsenic
- Analyze AOC1-B22-N10-D2.5 for arsenic

- Analyze AOC1-B22-S5-D1.5 for arsenic
- Analyze AOC1-B22-S5-D2.5 for arsenic
- Analyze AOC1-B22-S10-D1.5 for arsenic
- Analyze AOC1-B22-S10-D2.5 for arsenic
- Analyze AOC1-B34-N5-D1.5 for lead
- Analyze AOC1-B34-N5-D2.5 for lead
- Analyze AOC1-B91-N5-D1.5 for arsenic
- Analyze AOC1-B91-N5-D2.5 for arsenic
- Analyze AOC1-B91-N10-D1.5-D for arsenic
- Analyze AOC1-B91-N10-D2.5-D for arsenic
- Analyze AOC1-B91-S5-D1.5 for arsenic
- Analyze AOC1-B91-S5-D2.5 for arsenic
- Analyze AOC1-B112-N5-D1.5 for arsenic
- Analyze AOC1-B112-N5-D2.5 for arsenic
- Analyze AOC1-B112-N10-D1.5 for arsenic
- Analyze AOC1-B112-N10-D2.5 for arsenic

Thanks,
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

3/15/2018

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	11 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std ___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B6-W10-D0.5	2/19/18	1346	G	S	1	N			X	
AOC1-B6-W10-D1.5	2/19/18	1349	G	S	1	N			H	
AOC1-B6-W10-D2.5	2/19/18	1350	G	S	1	N			H	
AOC1-B6-S5-D0.5	2/19/18	1352	G	S	1	N			X	
AOC1-B6-S5-D1.5	2/19/18	1354	G	S	1	N			H	
AOC1-B6-S5-D2.5	2/19/18	1357	G	S	1	N			H	
AOC1-B6-S10-D0.5	2/19/18	1357	G	S	1	N			X	
AOC1-B6-S10-D1.5	2/19/18	1400	G	S	1	N			H	
AOC1-B6-S10-D2.5	2/19/18	1402	G	S	1	N			H	
AOC1-B8-S10-D0.5	2/19/18	1414	G	S	1	N		X		
AOC1-B8-S10-D1.5	2/19/18	1417	G	S	1	N			H	
AOC1-B8-S10-D2.5	2/19/18	1418	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by.	Company: Parsons	Date/Time: 2/19/2018 1500	Received by. Nicole Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by. Nicole Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company	Date/Time:	Received in Laboratory by: Edgar Cineros	Company: TA-IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-203718-2

Login Number: 203718

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-204170-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
3/15/2018 9:43:32 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Method Summary 9
Lab Chronicle 10
QC Sample Results 13
QC Association Summary 14
Definitions/Glossary 15
Certification Summary 16
Chain of Custody 17
Receipt Checklists 32

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-204170-3	AOC1-B91-N5-D1.5	Solid	02/24/18 07:36	02/26/18 18:10
440-204170-4	AOC1-B91-N5-D2.5	Solid	02/24/18 07:38	02/26/18 18:10
440-204170-6	AOC1-B91-N10-D1.5	Solid	02/24/18 07:42	02/26/18 18:10
440-204170-7	AOC1-B91-N10-D2.5	Solid	02/24/18 07:44	02/26/18 18:10
440-204170-9	AOC1-B91-S5-D1.5	Solid	02/24/18 07:48	02/26/18 18:10
440-204170-10	AOC1-B91-S5-D2.5	Solid	02/24/18 07:50	02/26/18 18:10
440-204170-54	AOC1-B34-N5-D1.5	Solid	02/24/18 09:22	02/26/18 18:10
440-204170-55	AOC1-B34-N5-D2.5	Solid	02/24/18 09:24	02/26/18 18:10
440-204170-93	AOC1-B10-N5-D1.5	Solid	02/24/18 08:50	02/26/18 18:10
440-204170-94	AOC1-B10-N5-D2.5	Solid	02/24/18 08:52	02/26/18 18:10
440-204170-100	AOC1-B10-W5-D1.5	Solid	02/24/18 09:24	02/26/18 18:10
440-204170-101	AOC1-B10-W5-D2.5	Solid	02/24/18 09:25	02/26/18 18:10

Job ID: 440-204170-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-204170-2

Comments
Only the additional test results requested on 3/9/18 are included in this report.

Receipt
The samples were received on 2/26/2018 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.1° C, 0.8° C, 0.8° C and 2.0° C.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) precision value for preparation batch 440-462587 and analytical batch 440-462781 was outside control limits for Arsenic. The individual MS and MSD recoveries were within limits and the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Client Sample ID: AOC1-B91-N5-D1.5 — Lab Sample ID: 440-204170-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15	F2	3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N5-D2.5 — Lab Sample ID: 440-204170-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N10-D1.5 — Lab Sample ID: 440-204170-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N10-D2.5 — Lab Sample ID: 440-204170-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-S5-D1.5 — Lab Sample ID: 440-204170-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-S5-D2.5 — Lab Sample ID: 440-204170-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-N5-D1.5 — Lab Sample ID: 440-204170-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	40		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-N5-D2.5 — Lab Sample ID: 440-204170-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	28		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-N5-D1.5 — Lab Sample ID: 440-204170-93

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-N5-D2.5 — Lab Sample ID: 440-204170-94

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-W5-D1.5 — Lab Sample ID: 440-204170-100

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B10-W5-D1.5 (Continued) — Lab Sample ID: 440-204170-100

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-W5-D2.5 — Lab Sample ID: 440-204170-101

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B91-N5-D1.5 — **Lab Sample ID: 440-204170-3**
Date Collected: 02/24/18 07:36 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15	F2	3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:13	5

Client Sample ID: AOC1-B91-N5-D2.5 — **Lab Sample ID: 440-204170-4**
Date Collected: 02/24/18 07:38 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:25	5

Client Sample ID: AOC1-B91-N10-D1.5 — **Lab Sample ID: 440-204170-6**
Date Collected: 02/24/18 07:42 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:27	5

Client Sample ID: AOC1-B91-N10-D2.5 — **Lab Sample ID: 440-204170-7**
Date Collected: 02/24/18 07:44 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:30	5

Client Sample ID: AOC1-B91-S5-D1.5 — **Lab Sample ID: 440-204170-9**
Date Collected: 02/24/18 07:48 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:39	5

Client Sample ID: AOC1-B91-S5-D2.5 — **Lab Sample ID: 440-204170-10**
Date Collected: 02/24/18 07:50 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:41	5

Client Sample ID: AOC1-B34-N5-D1.5 — **Lab Sample ID: 440-204170-54**
Date Collected: 02/24/18 09:22 — Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	40		2.0	1.0	mg/Kg		03/09/18 11:14	03/09/18 22:44	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Client Sample ID: AOC1-B34-N5-D2.5 — **Lab Sample ID: 440-204170-55**
Date Collected: 02/24/18 09:24 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	28		2.0	1.0	mg/Kg		03/09/18 11:14	03/09/18 22:46	5

Client Sample ID: AOC1-B10-N5-D1.5 — **Lab Sample ID: 440-204170-93**
Date Collected: 02/24/18 08:50 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:48	5

Client Sample ID: AOC1-B10-N5-D2.5 — **Lab Sample ID: 440-204170-94**
Date Collected: 02/24/18 08:52 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:51	5

Client Sample ID: AOC1-B10-W5-D1.5 — **Lab Sample ID: 440-204170-100**
Date Collected: 02/24/18 09:24 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:53	5

Client Sample ID: AOC1-B10-W5-D2.5 — **Lab Sample ID: 440-204170-101**
Date Collected: 02/24/18 09:25 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:56	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B91-N5-D1.5 — **Lab Sample ID: 440-204170-3**
Date Collected: 02/24/18 07:36 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:13	K1E	TAL IRV

Client Sample ID: AOC1-B91-N5-D2.5 — **Lab Sample ID: 440-204170-4**
Date Collected: 02/24/18 07:38 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:25	K1E	TAL IRV

Client Sample ID: AOC1-B91-N10-D1.5 — **Lab Sample ID: 440-204170-6**
Date Collected: 02/24/18 07:42 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:27	K1E	TAL IRV

Client Sample ID: AOC1-B91-N10-D2.5 — **Lab Sample ID: 440-204170-7**
Date Collected: 02/24/18 07:44 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:30	K1E	TAL IRV

Client Sample ID: AOC1-B91-S5-D1.5 — **Lab Sample ID: 440-204170-9**
Date Collected: 02/24/18 07:48 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:39	K1E	TAL IRV

Client Sample ID: AOC1-B91-S5-D2.5 — **Lab Sample ID: 440-204170-10**
Date Collected: 02/24/18 07:50 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:41	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Client Sample ID: AOC1-B34-N5-D1.5

Lab Sample ID: 440-204170-54

Date Collected: 02/24/18 09:22
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:44	K1E	TAL IRV

Client Sample ID: AOC1-B34-N5-D2.5

Lab Sample ID: 440-204170-55

Date Collected: 02/24/18 09:24
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:46	K1E	TAL IRV

Client Sample ID: AOC1-B10-N5-D1.5

Lab Sample ID: 440-204170-93

Date Collected: 02/24/18 08:50
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:48	K1E	TAL IRV

Client Sample ID: AOC1-B10-N5-D2.5

Lab Sample ID: 440-204170-94

Date Collected: 02/24/18 08:52
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:51	K1E	TAL IRV

Client Sample ID: AOC1-B10-W5-D1.5

Lab Sample ID: 440-204170-100

Date Collected: 02/24/18 09:24
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:53	K1E	TAL IRV

Client Sample ID: AOC1-B10-W5-D2.5

Lab Sample ID: 440-204170-101

Date Collected: 02/24/18 09:25
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	462587	03/09/18 11:14	DT	TAL IRV
Total/NA	Analysis	6010B		5			462781	03/09/18 22:56	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-462587/1-A ^5
Matrix: Solid
Analysis Batch: 462781

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 462587

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/09/18 11:14	03/09/18 22:08	5
Lead	ND		2.0	0.99	mg/Kg		03/09/18 11:14	03/09/18 22:08	5

Lab Sample ID: LCS 440-462587/2-A ^5
Matrix: Solid
Analysis Batch: 462781

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 462587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	45.4		mg/Kg		91	80 - 120
Lead	49.8	45.8		mg/Kg		92	80 - 120

Lab Sample ID: 440-204170-3 MS
Matrix: Solid
Analysis Batch: 462781

Client Sample ID: AOC1-B91-N5-D1.5
Prep Type: Total/NA
Prep Batch: 462587

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	15	F2	50.0	69.4		mg/Kg		109	75 - 125
Lead	5.8		50.0	53.1		mg/Kg		95	75 - 125

Lab Sample ID: 440-204170-3 MSD
Matrix: Solid
Analysis Batch: 462781

Client Sample ID: AOC1-B91-N5-D1.5
Prep Type: Total/NA
Prep Batch: 462587

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	15	F2	49.8	54.9	F2	mg/Kg		81	75 - 125	23	20
Lead	5.8		49.8	47.5		mg/Kg		84	75 - 125	11	20

Metals

Prep Batch: 462587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-3	AOC1-B91-N5-D1.5	Total/NA	Solid	3050B	
440-204170-4	AOC1-B91-N5-D2.5	Total/NA	Solid	3050B	
440-204170-6	AOC1-B91-N10-D1.5	Total/NA	Solid	3050B	
440-204170-7	AOC1-B91-N10-D2.5	Total/NA	Solid	3050B	
440-204170-9	AOC1-B91-S5-D1.5	Total/NA	Solid	3050B	
440-204170-10	AOC1-B91-S5-D2.5	Total/NA	Solid	3050B	
440-204170-54	AOC1-B34-N5-D1.5	Total/NA	Solid	3050B	
440-204170-55	AOC1-B34-N5-D2.5	Total/NA	Solid	3050B	
440-204170-93	AOC1-B10-N5-D1.5	Total/NA	Solid	3050B	
440-204170-94	AOC1-B10-N5-D2.5	Total/NA	Solid	3050B	
440-204170-100	AOC1-B10-W5-D1.5	Total/NA	Solid	3050B	
440-204170-101	AOC1-B10-W5-D2.5	Total/NA	Solid	3050B	
MB 440-462587/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-462587/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-204170-3 MS	AOC1-B91-N5-D1.5	Total/NA	Solid	3050B	
440-204170-3 MSD	AOC1-B91-N5-D1.5	Total/NA	Solid	3050B	

Analysis Batch: 462781

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-3	AOC1-B91-N5-D1.5	Total/NA	Solid	6010B	462587
440-204170-4	AOC1-B91-N5-D2.5	Total/NA	Solid	6010B	462587
440-204170-6	AOC1-B91-N10-D1.5	Total/NA	Solid	6010B	462587
440-204170-7	AOC1-B91-N10-D2.5	Total/NA	Solid	6010B	462587
440-204170-9	AOC1-B91-S5-D1.5	Total/NA	Solid	6010B	462587
440-204170-10	AOC1-B91-S5-D2.5	Total/NA	Solid	6010B	462587
440-204170-54	AOC1-B34-N5-D1.5	Total/NA	Solid	6010B	462587
440-204170-55	AOC1-B34-N5-D2.5	Total/NA	Solid	6010B	462587
440-204170-93	AOC1-B10-N5-D1.5	Total/NA	Solid	6010B	462587
440-204170-94	AOC1-B10-N5-D2.5	Total/NA	Solid	6010B	462587
440-204170-100	AOC1-B10-W5-D1.5	Total/NA	Solid	6010B	462587
440-204170-101	AOC1-B10-W5-D2.5	Total/NA	Solid	6010B	462587
MB 440-462587/1-A ^5	Method Blank	Total/NA	Solid	6010B	462587
LCS 440-462587/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	462587
440-204170-3 MS	AOC1-B91-N5-D1.5	Total/NA	Solid	6010B	462587
440-204170-3 MSD	AOC1-B91-N5-D1.5	Total/NA	Solid	6010B	462587

Qualifiers

Metals

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-2

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std ___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
FB 22418	2/24/2018	0730	G	SW	2			X	X	
AOC1 - B91 - N5 - 0.5	2/24/2018	0734	G	S	1			X		
AOC1 - B91 - N5 - 1.5	2/24/2018	0736	G	S	1			H		
AOC1 - B91 - N5 - 2.5	2/24/2018	0738	G	S	1			H		
AOC1 - B91 - N10 - 0.5	2/24/2018	0740	G	S	1			X		
AOC1 - B91 - N10 - 1.5	2/24/2018	0742	G	S	1			H		
AOC1 - B91 - N10 - 2.5	2/24/2018	0744	G	S	1			H		
AOC1 - B91 - S5 - 0.5	2/24/2018	0746	G	S	1			X		
AOC1 - B91 - S5 - 1.5	2/24/2018	0748	G	S	1			H		
AOC1 - B91 - S5 - 2.5	2/24/2018	0750	G	S	1			H		
AOC1 - B91 - N10 - 0.5-D	2/24/2018	0746	G	S	1	Y		X		
AOC1 - B91 - S10 - 0.5	2/24/2018	0752	G	S	1	Y		X		

440-204170 Chain of Custody

AOC1-B91-S10-D0.5-D

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

SL 13/1.8 0.6/0.1 25/2.0 1.3/0.8
GLC

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd: ___ Corr'd: ___ Therm ID No.: ___			
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00	
Relinquished by:	Company: TAL	Date/Time: 2-26-18 13:16	Received by:	Company:	Date/Time:	
Relinquished by.	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std ___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-00.5-Dup	2/24/2018	0740	G	S	1		Y	X		
AOC1-B1-W10-01.5-Dup	2/24/2018	0908	G	S	1		Y	X		
AOC1-B1-E5-00.5-Dup	2/24/2018	0800	G	S	1			X		Not a Duplicate
AOC1-B1-E5-01.5	2/24/2018	0802	G	S	1			H		
AOC1-B1-E5-02.5	2/24/2018	0805	G	S	1			H		
AOC1-B1-E10-00.5	2/24/2018	0747	G	S	1			X		
AOC1-B1-E10-01.5	2/24/2018	0748	G	S	1			H		
AOC1-B1-E10-02.5	2/24/2018	0750	G	S	1			H		
AOC1-B10-N5-00.5	2/24/2018	0846	G	S	1			X		
AOC1-B10-N5-01.5	2/24/2018	0850	G	S	1			H		
AOC1-B10-N5-02.5	2/24/2018	0852	G	S	1			H		
AOC1-B10-N5-00.5-Dup	2/24/2018	0848	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd: ___ Corr'd: ___		Therm ID No..
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2.26.18 17:00
Relinquished by	Company:	Date/Time: 2-26 17:18	Received by:	Company	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
FB22418	2/24/2018	0730	G	SW	2			X	X	
Acc1-B91-N5-F0.5	2/24/2018	0734	G	S	1			X		
Acc1-B91-N5-F1.5	2/24/2018	0736	G	S	1			H		
Acc1-B91-N5-F2.5	2/24/2018	0738	G	S	1			H		
Acc1-B91-N10-F0.5	2/24/2018	0740	G	S	1			X		
Acc1-B91-N10-F1.5	2/24/2018	0742	G	S	1			H		
Acc1-B91-N10-F2.5	2/24/2018	0744	G	S	1			H		
Acc1-B91-S5-F0.5	2/24/2018	0746	G	S	1			X		
Acc1-B91-S5-F1.5	2/24/2018	0748	G	S	1			H		
Acc1-B91-S5-F2.5	2/24/2018	0750	G	S	1			H		
Acc1-B91-N10-F0.5-D	2/24/2018	0742	G	S	1		Y	X		
Acc1-B91-S10-F0.5	2/24/2018	0752	G	S	1		Y	X		

440-204170 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

TAT 13/7.8 0.6/0.1 25/2.0 1.3/0.8
C/C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAL	Date/Time: 2-26-18 18:16	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 19 of 32

3/15/2018

2/26/18

01

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B91-S10-D0.5	2/24/2018	0752	G	S	1			Y		
AOC1-B91-S10-D1.5	2/24/2018	0754	G	S	1			H		
AOC1-B91-S10-D2.5	2/24/2018	0756	G	S	1			H		
AOC1-B58-N5-D0.5	2/24/2018	0800	G	S	1			X		
AOC1-B58-N5-D1.5	2/24/2018	0802	G	S	1			H		
AOC1-B58-N5-D2.5	2/24/2018	0804	G	S	1			H		
AOC1-B58-N10-D0.5	2/24/2018	0806	G	S	1			X		
AOC1-B58-N10-D1.5	2/24/2018	0808	G	S	1			H		
AOC1-B58-N10-D2.5	2/24/2018	0810	G	S	1			H		
AOC1-B58-N5-D0.5-D	2/24/2018	0800	G	S	1		Y	X		
AOC1-B58-E5-D0.5-D	2/24/2018	0812	G	S	1		Y	X		
AOC1-B64-N5-D0.5-D	2/24/2018	0836	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2/24/18 12:00
Relinquished by:	Company: TA	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time. 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 12 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-BS8-ES-0.5	2/24/2018	0812	G	S	1			X		
AOC1-BS8-ES-1.5	2/24/2018	0814	G	S	1			H		
AOC1-BS8-ES-2.5	2/24/2018	0816	G	S	1			H		
AOC1-BS9-S5-0.5	2/24/2018	0818	G	S	1			X		
AOC1-BS8-S5-1.5	2/24/2018	0820	G	S	1			H		
AOC1-BS8-S5-2.5	2/24/2018	0822	G	S	1			H		
AOC1-BS8-S10-0.5	2/24/2018	0824	G	S	1			X		
AOC1-BS8-S10-1.5	2/24/2018	0826	G	S	1			H		
AOC1-BS8-S10-2.5	2/24/2018	0828	G	S	1			H		
AOC1-BS8/64-0.5	2/24/2018	0830	G	S	1			X		
AOC1-BS8/64-1-1.5	2/24/2018	0832	G	S	1			H		
AOC1-BS8/64-1-2.5	2/24/2018	0834	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAV	Date/Time: 2-26-18 12:00
Relinquished by	Company: TAV	Date/Time: 2-26-18 1820	Received by:	Company:	Date/Time
Relinquished by.	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260 3299

Ch. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-N5-D0.5	2/24/2018	0836	G	S	1			Y		
AOC1-B64-N5-D1.5	2/24/2018	0838	G	S	1			H		
AOC1-B64-N5-D2.5	2/24/2018	0840	G	S	1			H		
AOC1-B64-N10-D0.5	2/24/2018	0842	G	S	1			X		
AOC1-B64-N10-D1.5	2/24/2018	0844	G	S	1			H		
AOC1-B64-N10-D2.5	2/24/2018	0846	G	S	1			H		
AOC1-B64-W5-D0.5	2/24/2018	0848	G	S	1			X		
AOC1-B64-W5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B64-W5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B64-S5-D0.5	2/24/2018	0854	G	S	1			X		
AOC1-B64-S5-D1.5	2/24/2018	0856	G	S	1			H		
AOC1-B64-S5-D2.5	2/24/2018	0858	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C). Obs'd: ____ Corr'd: ____		Therm ID No.. ____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAL	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/15/2018

TestAmer . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-S10-D0.5	2/24/2018	0920	G	S	1			X		
AOC1-B64-S10-D1.5	2/24/2018	0922	G	S	1			H		
AOC1-B64-S10-D2.5	2/24/2018	0900	G	S	1			H		
AOC1-B64-W5-00.5-D	2/24/2018	0851	G	S	1	Y		X		
AOC1-B34-N5-D0.5	2/24/2018	0920	G	S	1				X	
AOC1-B34-N5-D1.5	2/24/2018	0922	G	S	1				H	
AOC1-B34-N5-D2.5	2/24/2018	0924	G	S	1				H	
AOC1-B34-N10-D0.5	2/24/2018	0926	G	S	1				X	
AOC1-B34-N10-D1.5	2/24/2018	0928	G	S	1				H	
AOC1-B34-N10-D2.5	2/24/2018	0930	G	S	1				H	
AOC1-B34-S5-D0.5-D	2/24/2018	0944	G	S	1	Y			X	
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd _____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by	Company	Date/Time: 2-26-18 12:00
Relinquished by.	Company: TAL	Date/Time 2.26.18 1216	Received by	Company	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260 3299

Ch. .. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No :
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B34-E5-D0.5	2/24/2018	0932	G	S	1				X	
Aoc1-B34-E5 D1.5	2/24/2018	0934	G	S	1				H	
Aoc1-B34-E5 D2.5	2/24/2018	0936	G	S	1				H	
AOC1-B34-E10 - D0.5	2/24/2018	0930	G	S	1				X	
Aoc1-B34-E10 - D1.5	2/24/2018	0940	G	S	1				H	
Aoc1 B34-E10 - D2.5	2/24/2018	0942	G	S	1				H	
Aoc1-B34-S5-D0.5	2/24/2018	0944	G	S	1				X	
Aoc1-B34-S5-D1.5	2/24/2018	0946	G	S	1				H	
Aoc1-B34-S5-D2.5	2/24/2018	0948	G	S	1				H	
Aoc1-B34 S10-D0.5	2/24/2018	0950	G	S	1				X	
Aoc1-B34-S10-D1.5	2/24/2018	0952	G	S	1				H	
Aoc1-B34-S10-D2.5	2/24/2018	0954	G	S	1				H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No : ____
Relinquished by:	Company: Parsons	Date/Time: 2/26/2018	Received by:	Company: TAI	Date/Time: 2-26-18 12:--
Relinquished by:	Company: TAI	Date/Time: 2-26-18	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260.3299

Ch. .n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-D0.5	2/24/2018	0737	G	S	1			X		
AOC1-B1-N5-D1.5	2/24/2018	0742	G	S	1			H		
AOC1-B1-N5-D2.5	2/24/2018	0745	G	S	1			H		
AOC1-B1-N10-D0.5	2/24/2018	0730	G	S	1			X		
AOC1-B1-N10-D1.5	2/24/2018	0732	G	S	1			H		
AOC1-B1-N10-D2.5	2/24/2018	0735	G	S	1			H		
AOC1-B1-W5-D0.5	2/24/2018	0820	G	S	1			X		
AOC1-B1-W5-D1.5	2/24/2018	0822	G	S	1			H		
AOC1-B1-W5-D2.5	2/24/2018	0825	G	S	1			H		
AOC1-B1-W10-D0.5	2/24/2018	0807	G	S	1			X		
AOC1-B1-W10-D1.5	2/24/2018	0810	G	S	1			H		
AOC1-B1-W10-D2.5	2/24/2018	0812	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C): Obs'd. ____ Corr'd ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAI	Date/Time: 2-24-12 12:00
Relinquished by:	Company: TAI	Date/Time: 2/24/18 18:6	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 2/24/18 18:10

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeı . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .ı of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-D0.5-Dup	2/24/2018	0740	G	S	1		Y	X		
AOC1-B1-W10-D0.5-Dup	2/24/2018	0908	G	S	1		Y	X		
AOC1-B1-E5-D0.5-Dup	2/24/2018	0802	G	S	1			X		
AOC1-B1-E5-D1.5	2/24/2018	0802	G	S	1			H		
AOC1-B1-E5-D2.5	2/24/2018	0805	G	S	1			H		
AOC1-B1-E10-D0.5	2/24/2018	0747	G	S	1			X		
AOC1-B1-E10-D1.5	2/24/2018	0748	G	S	1			H		
AOC1-B1-E10-D2.5	2/24/2018	0750	G	S	1			H		
AOC1-B10-N5-D0.5	2/24/2018	0846	G	S	1			X		
AOC1-B10-N5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B10-N5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B10-N5-D0.5-Dup	2/24/2018	0848	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: [illegible] Tg	Date/Time: 2.26.18 17:ce
Relinquished by	Company:	Date/Time: 2-26-18 810	Received by:	Company	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client.
	☑ 2 weeks			Lab Sampling.
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-N10-D0.5	2/24/2018	0838	G	S	1			X		
AOC1-B10-N10-D1.5	2/24/2018	0840	G	S	1			H		
AOC1-B10-N10-D2.5	2/24/2018	0844	G	S	1			H		
AOC1-B10-W5-D0.5	2/24/2018	0922	G	S	1			X		
AOC1-B10-W5-D1.5	2/24/2018	0924	G	S	1			H		
AOC1-B10-W5-D2.5	2/24/2018	0925	G	S	1			H		
AOC1-B10-W10-D0.5	2/24/2018	0910	G	S	1			X		
AOC1-B10-W10-D1.5	2/24/2018	0912	G	S	1			H		
AOC1-B10-W10-D2.5	2/24/2018	0914	G	S	1			H		
AOC1-B10-S5-D0.5	2/24/2018	0858	G	S	1			X		
AOC1-B10-S5-D1.5	2/24/2018	0900	G	S	1			H		
AOC1-B10-S5-D2.5	2/24/2018	0902	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐Yes ☐No	Custody Seal No		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2.26.18 12:00
Relinquished by:	Company: TAL	Date/Time: 2.26.18 18:16	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-S10-D0.5	2/24/2018	0852	G	S	1			X		
AOC1-B10-S10-D1.5	2/24/2018	0854	G	S	1			H		
AOC1-B10-S10-D2.5	2/24/2018	0856	G	S	1			H		
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____	
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2-26-18 0:00	
Relinquished by:	Company: TA	Date/Time: 2-26-18 9:16	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Friday, March 09, 2018 8:44 AM
To: Kim, Martin C.
Cc: Mata, Patty
Subject: RE: Reseda Soil Sampling

-External Email-

Yes, lets do those samples. Thanks, Justin

From: Kim, Martin C. [mailto:Martin.Kim@testamericainc.com]
Sent: Friday, March 09, 2018 8:42 AM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: FW: Reseda Soil Sampling

Hello,

I was looking over the sample and two of the samples on your list do not exist.

- Analyze AOC1-B91-N10-D1.5-D for arsenic
- Analyze AOC1-B91-N10-D2.5-D for arsenic

These samples are not on either one of the jobs. However, I found AOC1-B91-N10-D1.5 and AOC1-B91-N10-D2.5 without the –D on one of the jobs. Was the –D a typo? Please confirm.

Thanks,

Martin Kim
Project Management Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3280
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: Mata, Patty
Sent: Thursday, March 08, 2018 7:02 PM
To: Kim, Martin C.
Subject: FW: Reseda Soil Sampling

Martin,

Do you have time to take samples off hold and add tests to a job -2 for the samples listed in the email below please?

Thanks,

PATTY MATA
Project Manager

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3213

www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Thursday, March 08, 2018 5:30 PM
To: Mata, Patty
Cc: Robinson, Dane
Subject: Reseda Soil Sampling

-External Email-

Hi Patty
I would like to take the below samples off of hold and analyze for the following analysis.

- Analyze AOC1-B8-S10-D1.5 for arsenic
- Analyze AOC1-B8-S10-D2.5 for arsenic
- Analyze AOC1-B10-N5-D1.5 for arsenic
- Analyze AOC1-B10-N5-D2.5 for arsenic
- Analyze AOC1-B10-W5-D1.5 for arsenic
- Analyze AOC1-B10-W5-D2.5 for arsenic
- Analyze AOC1-B22-N5-D1.5 for arsenic
- Analyze AOC1-B22-N5-D2.5 for arsenic
- Analyze AOC1-B22-N10-D1.5 for arsenic
- Analyze AOC1-B22-N10-D2.5 for arsenic

- Analyze AOC1-B22-S5-D1.5 for arsenic
- Analyze AOC1-B22-S5-D2.5 for arsenic
- Analyze AOC1-B22-S10-D1.5 for arsenic
- Analyze AOC1-B22-S10-D2.5 for arsenic
- Analyze AOC1-B34-N5-D1.5 for lead
- Analyze AOC1-B34-N5-D2.5 for lead
- Analyze AOC1-B91-N5-D1.5 for arsenic
- Analyze AOC1-B91-N5-D2.5 for arsenic
- Analyze AOC1-B91-N10-D1.5-D for arsenic
- Analyze AOC1-B91-N10-D2.5-D for arsenic
- Analyze AOC1-B91-S5-D1.5 for arsenic
- Analyze AOC1-B91-S5-D2.5 for arsenic
- Analyze AOC1-B112-N5-D1.5 for arsenic
- Analyze AOC1-B112-N5-D2.5 for arsenic
- Analyze AOC1-B112-N10-D1.5 for arsenic
- Analyze AOC1-B112-N10-D2.5 for arsenic

Thanks,
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-204170-2

Login Number: 204170

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-204170-3
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
3/21/2018 8:42:42 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 9
QC Association Summary 11
Definitions/Glossary 12
Certification Summary 13
Chain of Custody 14
Receipt Checklists 28

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-204170-53	AOC1-B34-N5-D0.5	Solid	02/24/18 09:20	02/26/18 18:10
440-204170-87	AOC1-B1-E5-D1.5	Solid	02/24/18 08:02	02/26/18 18:10
440-204170-88	AOC1-B1-E5-D2.5	Solid	02/24/18 08:05	02/26/18 18:10

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Job ID: 440-204170-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-204170-3

Comments
Only the results for additional tests requested on 3/13/18 and 3/15/18 are included in this report.

Receipt
The samples were received on 2/26/2018 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.1º C, 0.8º C, 0.8º C and 2.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Client Sample ID: AOC1-B34-N5-D0.5 — Lab Sample ID: 440-204170-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	4.5		0.10	0.080	mg/L	20		6010B	STLC Citrate

Client Sample ID: AOC1-B1-E5-D1.5 — Lab Sample ID: 440-204170-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-E5-D2.5 — Lab Sample ID: 440-204170-88

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Client Sample ID: AOC1-B34-N5-D0.5

Lab Sample ID: 440-204170-53

Date Collected: 02/24/18 09:20
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP) - STLC Citrate

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	4.5		0.10	0.080	mg/L			03/17/18 22:14	20

Client Sample ID: AOC1-B1-E5-D1.5

Lab Sample ID: 440-204170-87

Date Collected: 02/24/18 08:02
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		03/16/18 09:20	03/17/18 22:57	5

Client Sample ID: AOC1-B1-E5-D2.5

Lab Sample ID: 440-204170-88

Date Collected: 02/24/18 08:05
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		3.0	1.5	mg/Kg		03/16/18 09:20	03/17/18 23:08	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Client Sample ID: AOC1-B34-N5-D0.5

Lab Sample ID: 440-204170-53

Date Collected: 02/24/18 09:20

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
STLC Citrate	Leach	CA WET Citrate			50.05 g	500 mL	463354	03/13/18 19:54	CDH	TAL IRV
STLC Citrate	Analysis	6010B		20			464358	03/17/18 22:14	VS	TAL IRV

Client Sample ID: AOC1-B1-E5-D1.5

Lab Sample ID: 440-204170-87

Date Collected: 02/24/18 08:02

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	463965	03/16/18 09:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			464360	03/17/18 22:57	VS	TAL IRV

Client Sample ID: AOC1-B1-E5-D2.5

Lab Sample ID: 440-204170-88

Date Collected: 02/24/18 08:05

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	463965	03/16/18 09:20	DT	TAL IRV
Total/NA	Analysis	6010B		5			464360	03/17/18 23:08	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-463965/1-A ^5
Matrix: Solid
Analysis Batch: 464360

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 463965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/16/18 09:20	03/17/18 22:52	5

Lab Sample ID: LCS 440-463965/2-A ^5
Matrix: Solid
Analysis Batch: 464360

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 463965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	42.9		mg/Kg		87	80 - 120

Lab Sample ID: 440-204170-87 MS
Matrix: Solid
Analysis Batch: 464360

Client Sample ID: AOC1-B1-E5-D1.5
Prep Type: Total/NA
Prep Batch: 463965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.4		49.3	46.6		mg/Kg		84	75 - 125

Lab Sample ID: 440-204170-87 MSD
Matrix: Solid
Analysis Batch: 464360

Client Sample ID: AOC1-B1-E5-D1.5
Prep Type: Total/NA
Prep Batch: 463965

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.4		49.3	44.5		mg/Kg		79	75 - 125	5	20

Lab Sample ID: MB 440-463354/1-A
Matrix: Solid
Analysis Batch: 464358

Client Sample ID: Method Blank
Prep Type: STLC Citrate

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	ND		0.10	0.080	mg/L			03/17/18 21:55	20

Lab Sample ID: LCS 440-463354/2-A
Matrix: Solid
Analysis Batch: 464358

Client Sample ID: Lab Control Sample
Prep Type: STLC Citrate

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	20.0	19.5		mg/L		97	80 - 120

Lab Sample ID: 240-92285-E-6-A MS
Matrix: Solid
Analysis Batch: 464358

Client Sample ID: Matrix Spike
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	0.15		20.0	19.7		mg/L		98	75 - 125

Lab Sample ID: 240-92285-E-6-A MSD
Matrix: Solid
Analysis Batch: 464358

Client Sample ID: Matrix Spike Duplicate
Prep Type: STLC Citrate

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	0.15		20.0	19.9		mg/L		99	75 - 125	1	20

Metals

Leach Batch: 463354

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-53	AOC1-B34-N5-D0.5	STLC Citrate	Solid	CA WET Citrate	
MB 440-463354/1-A	Method Blank	STLC Citrate	Solid	CA WET Citrate	
LCS 440-463354/2-A	Lab Control Sample	STLC Citrate	Solid	CA WET Citrate	
240-92285-E-6-A MS	Matrix Spike	STLC Citrate	Solid	CA WET Citrate	
240-92285-E-6-A MSD	Matrix Spike Duplicate	STLC Citrate	Solid	CA WET Citrate	

Prep Batch: 463965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-87	AOC1-B1-E5-D1.5	Total/NA	Solid	3050B	
440-204170-88	AOC1-B1-E5-D2.5	Total/NA	Solid	3050B	
MB 440-463965/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-463965/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-204170-87 MS	AOC1-B1-E5-D1.5	Total/NA	Solid	3050B	
440-204170-87 MSD	AOC1-B1-E5-D1.5	Total/NA	Solid	3050B	

Analysis Batch: 464358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-53	AOC1-B34-N5-D0.5	STLC Citrate	Solid	6010B	463354
MB 440-463354/1-A	Method Blank	STLC Citrate	Solid	6010B	463354
LCS 440-463354/2-A	Lab Control Sample	STLC Citrate	Solid	6010B	463354
240-92285-E-6-A MS	Matrix Spike	STLC Citrate	Solid	6010B	463354
240-92285-E-6-A MSD	Matrix Spike Duplicate	STLC Citrate	Solid	6010B	463354

Analysis Batch: 464360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-87	AOC1-B1-E5-D1.5	Total/NA	Solid	6010B	463965
440-204170-88	AOC1-B1-E5-D2.5	Total/NA	Solid	6010B	463965
MB 440-463965/1-A ^5	Method Blank	Total/NA	Solid	6010B	463965
LCS 440-463965/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	463965
440-204170-87 MS	AOC1-B1-E5-D1.5	Total/NA	Solid	6010B	463965
440-204170-87 MSD	AOC1-B1-E5-D1.5	Total/NA	Solid	6010B	463965

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-3

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmer. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
FD22418	2/24/2018	0730	G	SW	2			X	X	
AOC1-B91-N5-D0.5	2/24/2018	0734	G	S	1			X		
AOC1-B91-N5-D1.5	2/24/2018	0736	G	S	1			H		
AOC1-B91-N5-D2.5	2/24/2018	0738	G	S	1			H		
AOC1-B91-N10-D0.5	2/24/2018	0740	G	S	1			X		
AOC1-B91-N10-D1.5	2/24/2018	0742	G	S	1			H		
AOC1-B91-N10-D2.5	2/24/2018	0744	G	S	1			H		
AOC1-B91-S5-D0.5	2/24/2018	0746	G	S	1			X		
AOC1-B91-S5-D1.5	2/24/2018	0748	G	S	1			H		
AOC1-B91-S5-D2.5	2/24/2018	0750	G	S	1			H		
AOC1-B91-N10-D0.5-D	2/24/2018	0746	G	S	1		Y	X		
AOC1-B91-S10-D0.5	2/24/2018	0752	G	S	1		Y	X		

440-204170 Chain of Custody

AOC1-B91-S10-D0.5-D

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

SL 13/1.8 0.6/0.1 25/2.0 1.3/0.8
GLC

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd: ___ Corr'd: ___ Therm ID No.: ___			
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAI	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAI	Date/Time: 2-26-18 13:16	Received by:	Company:	Date/Time:
Relinquished by.	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std ___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-00.5-Dup	2/24/2018	0740	G	S	1		Y	X		
AOC1-B1-W10-00.5-Dup	2/24/2018	0908	G	S	1		Y	X		
AOC1-B1-E5-00.5-Dup	2/24/2018	0800	G	S	1			X		Not a Duplicate
AOC1-B1-E5-01.5	2/24/2018	0802	G	S	1			H		
AOC1-B1-E5-02.5	2/24/2018	0805	G	S	1			H		
AOC1-B1-E10-00.5	2/24/2018	0747	G	S	1			X		
AOC1-B1-E10-01.5	2/24/2018	0748	G	S	1			H		
AOC1-B1-E10-02.5	2/24/2018	0750	G	S	1			H		
AOC1-B10-N5-00.5	2/24/2018	0846	G	S	1			X		
AOC1-B10-N5-01.5	2/24/2018	0850	G	S	1			H		
AOC1-B10-N5-02.5	2/24/2018	0852	G	S	1			H		
AOC1-B10-N5-00.5-Dup	2/24/2018	0848	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ___ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd: ___ Corr'd: ___		Therm ID No..
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2.26.18 17:00
Relinquished by	Company:	Date/Time: 2-26 17:18	Received by:	Company	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by:	Company: IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Thursday, March 15, 2018 10:16 AM
To: Mata, Patty
Subject: RE: TestAmerica additional Pb and As report files from 440-204170-2 LAUSD Reseda H.S., CA

-External Email-

Can you also run AOC1-B1-E5-D1.5 and AOC1-B1-E5-D2.5 for arsenic?
Thanks, Justin

From: Mata, Patty [mailto:patty.mata@testamericainc.com]
Sent: Thursday, March 15, 2018 9:46 AM
To: King, Justin <Justin.King@parsons.com>
Subject: TestAmerica additional Pb and As report files from 440-204170-2 LAUSD Reseda H.S., CA

Hello,

Attached please find the report files for job 440-204170-2; LAUSD Reseda H.S., CA

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

PATTY MATA
Project Manager

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [434147]
Attachments: 1

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Tuesday, March 13, 2018 12:19 PM
To: Mata, Patty
Subject: RE: Reseda Soil Sampling

-External Email-

Thanks Patty. Can you also run STLC on AOC1-B34-N5-D0.5 for lead?
Justin

From: Mata, Patty [mailto:Patty.Mata@testamericainc.com]
Sent: Tuesday, March 13, 2018 12:01 PM
To: King, Justin <Justin.King@parsons.com>
Subject: RE: Reseda Soil Sampling

Justin,

I had asked Martin Kim to help me add the new tests into our system and I thought he had emailed you with questions about a few sample IDs, but I guess he didn't say that all tests are in process, and I didn't email you either. Sorry for the lack of communication!

The tests were all added into our system and should be done today or tomorrow.

Thanks,

PATTY MATA
Project Manager

Test America
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Ave, Suite #100
Irvine, CA 92614
TEL 949-261-1022 | FAX 949-260-3297
DIRECT 949-260-3213

www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation.

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Tuesday, March 13, 2018 11:43 AM
To: Mata, Patty
Subject: RE: Reseda Soil Sampling

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
FC22418	2/24/2018	0730	G	SW	2			X	X	
Acc1-B91-N5-F0.5	2/24/2018	0734	G	S	1			X		
Acc1-B91-N5-F1.5	2/24/2018	0736	G	S	1			H		
Acc1-B91-N5-F2.5	2/24/2018	0738	G	S	1			H		
Acc1-B91-N10-F0.5	2/24/2018	0740	G	S	1			X		
Acc1-B91-N10-F1.5	2/24/2018	0742	G	S	1			H		
Acc1-B91-N10-F2.5	2/24/2018	0744	G	S	1			H		
Acc1-B91-S5-F0.5	2/24/2018	0746	G	S	1			X		
Acc1-B91-S5-F1.5	2/24/2018	0748	G	S	1			H		
Acc1-B91-S5-F2.5	2/24/2018	0750	G	S	1			H		
Acc1-B91-N10-F0.5-D	2/24/2018	0742	G	S	1		Y	X		
Acc1-B91-S10-F0.5	2/24/2018	0752	G	S	1		Y	X		

440-204170 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

TAT 13/7.8 0.6/0.1 25/2.0 1.3/0.8
C/C

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C). Obs'd:_____ Corr'd:_____ Therm ID No.:_____

Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAI	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAI	Date/Time: 2-26-18 18:16	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 18 of 28

3/21/2018

2/26/18

TO

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1 - B91 - S10 - D0.5	2/24/2018	0752	G	S	1			Y		
AOC1 - B91 - S10 - D1.5	2/24/2018	0754	G	S	1			H		
AOC1 - B91 - S10 - D2.5	2/24/2018	0756	G	S	1			H		
AOC1 - B58 - N5 - D0.5	2/24/2018	0800	G	S	1			X		
AOC1 - B58 - N5 - D1.5	2/24/2018	0802	G	S	1			H		
AOC1 - B58 - N5 - D2.5	2/24/2018	0804	G	S	1			H		
AOC1 - B58 - N10 - D0.5	2/24/2018	0806	G	S	1			X		
AOC1 - B58 - N10 - D1.5	2/24/2018	0808	G	S	1			H		
AOC1 - B58 - N10 - D2.5	2/24/2018	0810	G	S	1			H		
AOC1 - B58 - N5 - D0.5-D	2/24/2018	0800	G	S	1		Y	X		
AOC1 - B58 - E5 - D0.5-D	2/24/2018	0812	G	S	1		Y	X		
AOC1 - B64 - N5 - D0.5-D	2/24/2018	0836	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2/24/18 12:00
Relinquished by:	Company: TA	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time. 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 12 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-BS8-ES-0.5	2/24/2018	0812	G	S	1			X		
AOC1-BS8-ES-1.5	2/24/2018	0814	G	S	1			H		
AOC1-BS8-ES-2.5	2/24/2018	0816	G	S	1			H		
AOC1-BS9-S5-0.5	2/24/2018	0818	G	S	1			X		
AOC1-BS8-S5-1.5	2/24/2018	0820	G	S	1			H		
AOC1-BS8-S5-2.5	2/24/2018	0822	G	S	1			H		
AOC1-BS8-S10-0.5	2/24/2018	0824	G	S	1			X		
AOC1-BS8-S10-1.5	2/24/2018	0826	G	S	1			H		
AOC1-BS8-S10-2.5	2/24/2018	0828	G	S	1			H		
AOC1-BS8/64-0.5	2/24/2018	0830	G	S	1			X		
AOC1-BS8/64-1-1.5	2/24/2018	0832	G	S	1			H		
AOC1-BS8/64-1-2.5	2/24/2018	0834	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAV	Date/Time: 2-26-18 12:00
Relinquished by	Company: TAV	Date/Time: 2-26-18 1820	Received by:	Company:	Date/Time
Relinquished by.	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260 3299

Ch. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-N5-D0.5	2/24/2018	0836	G	S	1			Y		
AOC1-B64-N5-D1.5	2/24/2018	0838	G	S	1			H		
AOC1-B64-N5-D2.5	2/24/2018	0840	G	S	1			H		
AOC1-B64-N10-D0.5	2/24/2018	0842	G	S	1			X		
AOC1-B64-N10-D1.5	2/24/2018	0844	G	S	1			H		
AOC1-B64-N10-D2.5	2/24/2018	0846	G	S	1			H		
AOC1-B64-W5-D0.5	2/24/2018	0848	G	S	1			X		
AOC1-B64-W5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B64-W5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B64-S5-D0.5	2/24/2018	0854	G	S	1			X		
AOC1-B64-S5-D1.5	2/24/2018	0856	G	S	1			H		
AOC1-B64-S5-D2.5	2/24/2018	0858	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C). Obs'd: ____ Corr'd: ____		Therm ID No.. ____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAL	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-S10-D0.5	2/24/2018	0920	G	S	1			X		
AOC1-B64-S10-D1.5	2/24/2018	0922	G	S	1			H		
AOC1-B64-S10-D2.5	2/24/2018	0900	G	S	1			H		
AOC1-B64-W5-00.5-D	2/24/2018	0851	G	S	1	Y		X		
AOC1-B34-N5-D0.5	2/24/2018	0920	G	S	1				X	
AOC1-B34-N5-D1.5	2/24/2018	0922	G	S	1				H	
AOC1-B34-N5-D2.5	2/24/2018	0924	G	S	1				H	
AOC1-B34-N10-D0.5	2/24/2018	0926	G	S	1				X	
AOC1-B34-N10-D1.5	2/24/2018	0928	G	S	1				H	
AOC1-B34-N10-D2.5	2/24/2018	0930	G	S	1				H	
AOC1-B34-S5-D0.5-D	2/24/2018	0944	G	S	1	Y			X	
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd _____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by	Company	Date/Time: 2-26-18 12:00
Relinquished by.	Company: TAL	Date/Time 2.26.18 1216	Received by	Company	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260 3299

Ch. .. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No :
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B34-E5-D0.5	2/24/2018	0932	G	S	1				X	
Aoc1-B34-E5 D1.5	2/24/2018	0934	G	S	1				H	
Aoc1-B34-E5 D2.5	2/24/2018	0936	G	S	1				H	
AOC1-B34-E10 - D0.5	2/24/2018	0930	G	S	1				X	
Aoc1-B34-E10 - D1.5	2/24/2018	0940	G	S	1				H	
Aoc1 B34-E10 - D2.5	2/24/2018	0942	G	S	1				H	
Aoc1-B34-S5-D0.5	2/24/2018	0944	G	S	1				X	
Aoc1-B34-S5-D1.5	2/24/2018	0946	G	S	1				H	
Aoc1-B34-S5-D2.5	2/24/2018	0948	G	S	1				H	
Aoc1-B34 S10-D0.5	2/24/2018	0950	G	S	1				X	
Aoc1-B34-S10-D1.5	2/24/2018	0952	G	S	1				H	
Aoc1-B34-S10-D2.5	2/24/2018	0954	G	S	1				H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No : ____
Relinquished by:	Company: Parsons	Date/Time: 2/26/2018	Received by:	Company: TAI	Date/Time: 2-26-18 12:--
Relinquished by:	Company: TAI	Date/Time: 2-26-18	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260.3299

Ch. .n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-00.5	2/24/2018	0737	G	S	1			X		
AOC1-B1-N5-01.5	2/24/2018	0742	G	S	1			H		
AOC1-B1-N5-02.5	2/24/2018	0745	G	S	1			H		
AOC1-B1-N10-00.5	2/24/2018	0730	G	S	1			X		
AOC1-B1-N10-01.5	2/24/2018	0732	G	S	1			H		
AOC1-B1-N10-02.5	2/24/2018	0735	G	S	1			H		
AOC1-B1-W5-00.5	2/24/2018	0820	G	S	1			X		
AOC1-B1-W5-01.5	2/24/2018	0822	G	S	1			H		
AOC1-B1-W5-02.5	2/24/2018	0825	G	S	1			H		
AOC1-B1-W10-00.5	2/24/2018	0807	G	S	1			X		
AOC1-B1-W10-01.5	2/24/2018	0810	G	S	1			H		
AOC1-B1-W10-02.5	2/24/2018	0812	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C): Obs'd. ____ Corr'd ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAI	Date/Time: 2-24-12 12:00
Relinquished by:	Company: TAI	Date/Time: 2/24/18 18:6	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 2/24/18 18:10

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeı . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-D0.5-Dup	2/24/2018	0740	G	S	1		Y	X		
AOC1-B1-W10-D0.5-Dup	2/24/2018	0908	G	S	1		Y	X		
AOC1-B1-E5-D0.5-Dup	2/24/2018	0802	G	S	1			X		
AOC1-B1-E5-D1.5	2/24/2018	0802	G	S	1			H		
AOC1-B1-E5-D2.5	2/24/2018	0805	G	S	1			H		
AOC1-B1-E10-D0.5	2/24/2018	0747	G	S	1			X		
AOC1-B1-E10-D1.5	2/24/2018	0748	G	S	1			H		
AOC1-B1-E10-D2.5	2/24/2018	0750	G	S	1			H		
AOC1-B10-N5-D0.5	2/24/2018	0846	G	S	1			X		
AOC1-B10-N5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B10-N5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B10-N5-D0.5-Dup	2/24/2018	0848	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: [illegible] Tg	Date/Time: 2.26.18 17:ce
Relinquished by	Company:	Date/Time: 2-26-18 810	Received by:	Company	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client.
	☑ 2 weeks			Lab Sampling.
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-N10-D0.5	2/24/2018	0838	G	S	1			X		
AOC1-B10-N10-D1.5	2/24/2018	0840	G	S	1			H		
AOC1-B10-N10-D2.5	2/24/2018	0844	G	S	1			H		
AOC1-B10-W5-D0.5	2/24/2018	0922	G	S	1			X		
AOC1-B10-W5-D1.5	2/24/2018	0924	G	S	1			H		
AOC1-B10-W5-D2.5	2/24/2018	0925	G	S	1			H		
AOC1-B10-W10-D0.5	2/24/2018	0910	G	S	1			X		
AOC1-B10-W10-D1.5	2/24/2018	0912	G	S	1			H		
AOC1-B10-W10-D2.5	2/24/2018	0914	G	S	1			H		
AOC1-B10-S5-D0.5	2/24/2018	0858	G	S	1			X		
AOC1-B10-S5-D1.5	2/24/2018	0900	G	S	1			H		
AOC1-B10-S5-D2.5	2/24/2018	0902	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2.26.18 12:00
Relinquished by:	Company: TAL	Date/Time: 2.26.18 12:16	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/21/2018

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-S10-D0.5	2/24/2018	0852	G	S	1			X		
AOC1-B10-S10-D1.5	2/24/2018	0854	G	S	1			H		
AOC1-B10-S10-D2.5	2/24/2018	0856	G	S	1			H		
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____	
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: Tv.	Date/Time: 2-26-18 0:00	
Relinquished by:	Company: Tv	Date/Time: 2-26-18 8:16	Received by:	Company:	Date/Time:	
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810	

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-204170-3

Login Number: 204170

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-207080-3
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
4/19/2018 10:31:32 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 8
Method Summary 12
Lab Chronicle 13
QC Sample Results 17
QC Association Summary 19
Definitions/Glossary 21
Certification Summary 22
Chain of Custody 23
Receipt Checklists 32

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-3

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-207080-2	AOC1-B91-N15-D1.5	Solid	03/26/18 09:02	03/26/18 18:40
440-207080-3	AOC1-B91-N15-D2.5	Solid	03/26/18 09:04	03/26/18 18:40
440-207080-5	AOC1-B91-N20-D1.5	Solid	03/26/18 09:08	03/26/18 18:40
440-207080-6	AOC1-B91-N20-D2.5	Solid	03/26/18 09:10	03/26/18 18:40
440-207080-14	AOC1-B22-N15-D1.5	Solid	03/26/18 09:58	03/26/18 18:40
440-207080-15	AOC1-B22-N15-D2.5	Solid	03/26/18 10:00	03/26/18 18:40
440-207080-17	AOC1-B22-S15-D1.5	Solid	03/26/18 10:04	03/26/18 18:40
440-207080-18	AOC1-B22-S15-D2.5	Solid	03/26/18 10:06	03/26/18 18:40
440-207080-20	AOC1-B22-S20-D1.5	Solid	03/26/18 10:10	03/26/18 18:40
440-207080-21	AOC1-B22-S20-D2.5	Solid	03/26/18 10:12	03/26/18 18:40
440-207080-23	AOC1-B8-S15-D1.5	Solid	03/26/18 11:32	03/26/18 18:40
440-207080-24	AOC1-B8-S15-D2.5	Solid	03/26/18 11:34	03/26/18 18:40
440-207080-29	AOC1-B81-NE15-D1.5	Solid	03/26/18 12:32	03/26/18 18:40
440-207080-30	AOC1-B81-NE15-D2.5	Solid	03/26/18 12:34	03/26/18 18:40
440-207080-32	AOC1-B81-NE20-D1.5	Solid	03/26/18 12:38	03/26/18 18:40
440-207080-33	AOC1-B81-NE20-D2.5	Solid	03/26/18 12:40	03/26/18 18:40
440-207080-35	AOC1-B81-SW15-D1.5	Solid	03/26/18 12:44	03/26/18 18:40
440-207080-36	AOC1-B81-SW15-D2.5	Solid	03/26/18 12:46	03/26/18 18:40
440-207080-38	AOC1-B81-SW20-D1.5	Solid	03/26/18 12:50	03/26/18 18:40
440-207080-39	AOC1-B81-SW20-D2.5	Solid	03/26/18 12:52	03/26/18 18:40
440-207080-54	AOC1-B77-SE22-D2.5	Solid	03/26/18 13:28	03/26/18 18:40
440-207080-59	AOC1-B112-N15-D1.5	Solid	03/26/18 14:32	03/26/18 18:40
440-207080-60	AOC1-B112-N15-D2.5	Solid	03/26/18 14:34	03/26/18 18:40

Job ID: 440-207080-3

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-207080-3

Comments
Only the results for additional sample tests requested by client on 4/12/18 are included in this report. Tests were cancelled by client for samples AOC1-B91-E10-D1.5 and AOC1-B91-E10-D2.5 prior to analysis.

Receipt
The samples were received on 3/26/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 0.4° C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-3

Client Sample ID: AOC1-B91-N15-D1.5 — Lab Sample ID: 440-207080-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N15-D2.5 — Lab Sample ID: 440-207080-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N20-D1.5 — Lab Sample ID: 440-207080-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N20-D2.5 — Lab Sample ID: 440-207080-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N15-D1.5 — Lab Sample ID: 440-207080-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N15-D2.5 — Lab Sample ID: 440-207080-15

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S15-D1.5 — Lab Sample ID: 440-207080-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S15-D2.5 — Lab Sample ID: 440-207080-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S20-D1.5 — Lab Sample ID: 440-207080-20

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S20-D2.5 — Lab Sample ID: 440-207080-21

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S15-D1.5 — Lab Sample ID: 440-207080-23

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B8-S15-D1.5 (Continued) — Lab Sample ID: 440-207080-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S15-D2.5 — Lab Sample ID: 440-207080-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE15-D1.5 — Lab Sample ID: 440-207080-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE15-D2.5 — Lab Sample ID: 440-207080-30

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE20-D1.5 — Lab Sample ID: 440-207080-32

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE20-D2.5 — Lab Sample ID: 440-207080-33

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW15-D1.5 — Lab Sample ID: 440-207080-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW15-D2.5 — Lab Sample ID: 440-207080-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW20-D1.5 — Lab Sample ID: 440-207080-38

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW20-D2.5 — Lab Sample ID: 440-207080-39

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE22-D2.5 — Lab Sample ID: 440-207080-54

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-SE22-D2.5 (Continued) — Lab Sample ID: 440-207080-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N15-D1.5 — Lab Sample ID: 440-207080-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N15-D2.5 — Lab Sample ID: 440-207080-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B91-N15-D1.5 — **Lab Sample ID: 440-207080-2**
Date Collected: 03/26/18 09:02 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.1		3.0	1.5	mg/Kg		04/16/18 08:56	04/17/18 02:04	5

Client Sample ID: AOC1-B91-N15-D2.5 — **Lab Sample ID: 440-207080-3**
Date Collected: 03/26/18 09:04 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.2		3.0	1.5	mg/Kg		04/16/18 08:56	04/17/18 02:06	5

Client Sample ID: AOC1-B91-N20-D1.5 — **Lab Sample ID: 440-207080-5**
Date Collected: 03/26/18 09:08 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		04/16/18 08:56	04/17/18 02:09	5

Client Sample ID: AOC1-B91-N20-D2.5 — **Lab Sample ID: 440-207080-6**
Date Collected: 03/26/18 09:10 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.2		3.0	1.5	mg/Kg		04/16/18 08:56	04/17/18 02:11	5

Client Sample ID: AOC1-B22-N15-D1.5 — **Lab Sample ID: 440-207080-14**
Date Collected: 03/26/18 09:58 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:29	5

Client Sample ID: AOC1-B22-N15-D2.5 — **Lab Sample ID: 440-207080-15**
Date Collected: 03/26/18 10:00 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:31	5

Client Sample ID: AOC1-B22-S15-D1.5 — **Lab Sample ID: 440-207080-17**
Date Collected: 03/26/18 10:04 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.9		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:33	5

Client Sample ID: AOC1-B22-S15-D2.5 — **Lab Sample ID: 440-207080-18**
Date Collected: 03/26/18 10:06 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:40	5

Client Sample ID: AOC1-B22-S20-D1.5 — **Lab Sample ID: 440-207080-20**
Date Collected: 03/26/18 10:10 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.2		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:43	5

Client Sample ID: AOC1-B22-S20-D2.5 — **Lab Sample ID: 440-207080-21**
Date Collected: 03/26/18 10:12 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:45	5

Client Sample ID: AOC1-B8-S15-D1.5 — **Lab Sample ID: 440-207080-23**
Date Collected: 03/26/18 11:32 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:47	5

Client Sample ID: AOC1-B8-S15-D2.5 — **Lab Sample ID: 440-207080-24**
Date Collected: 03/26/18 11:34 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:49	5

Client Sample ID: AOC1-B81-NE15-D1.5 — **Lab Sample ID: 440-207080-29**
Date Collected: 03/26/18 12:32 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:52	5

Client Sample ID: AOC1-B81-NE15-D2.5 — **Lab Sample ID: 440-207080-30**
Date Collected: 03/26/18 12:34 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.8		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:54	5

Client Sample ID: AOC1-B81-NE20-D1.5 — **Lab Sample ID: 440-207080-32**
Date Collected: 03/26/18 12:38 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:56	5

Client Sample ID: AOC1-B81-NE20-D2.5 — **Lab Sample ID: 440-207080-33**
Date Collected: 03/26/18 12:40 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.7		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:58	5

Client Sample ID: AOC1-B81-SW15-D1.5 — **Lab Sample ID: 440-207080-35**
Date Collected: 03/26/18 12:44 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 23:01	5

Client Sample ID: AOC1-B81-SW15-D2.5 — **Lab Sample ID: 440-207080-36**
Date Collected: 03/26/18 12:46 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 23:12	5

Client Sample ID: AOC1-B81-SW20-D1.5 — **Lab Sample ID: 440-207080-38**
Date Collected: 03/26/18 12:50 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 23:14	5

Client Sample ID: AOC1-B81-SW20-D2.5 — **Lab Sample ID: 440-207080-39**
Date Collected: 03/26/18 12:52 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.5		3.0	1.5	mg/Kg		04/16/18 09:00	04/18/18 23:17	5

Client Sample ID: AOC1-B77-SE22-D2.5 — **Lab Sample ID: 440-207080-54**
Date Collected: 03/26/18 13:28 — Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.4		3.0	1.5	mg/Kg		04/16/18 09:00	04/18/18 23:19	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-3

Client Sample ID: AOC1-B112-N15-D1.5 — **Lab Sample ID: 440-207080-59**
Date Collected: 03/26/18 14:32 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		04/16/18 09:00	04/18/18 23:21	5

Client Sample ID: AOC1-B112-N15-D2.5 — **Lab Sample ID: 440-207080-60**
Date Collected: 03/26/18 14:34 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.2		3.0	1.5	mg/Kg		04/16/18 09:00	04/18/18 23:23	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-3

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC1-B91-N15-D1.5 — **Lab Sample ID: 440-207080-2**
Date Collected: 03/26/18 09:02 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470358	04/16/18 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5			471045	04/17/18 02:04	K1E	TAL IRV

Client Sample ID: AOC1-B91-N15-D2.5 — **Lab Sample ID: 440-207080-3**
Date Collected: 03/26/18 09:04 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	470358	04/16/18 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5			471045	04/17/18 02:06	K1E	TAL IRV

Client Sample ID: AOC1-B91-N20-D1.5 — **Lab Sample ID: 440-207080-5**
Date Collected: 03/26/18 09:08 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470358	04/16/18 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5			471045	04/17/18 02:09	K1E	TAL IRV

Client Sample ID: AOC1-B91-N20-D2.5 — **Lab Sample ID: 440-207080-6**
Date Collected: 03/26/18 09:10 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470358	04/16/18 08:56	DT	TAL IRV
Total/NA	Analysis	6010B		5			471045	04/17/18 02:11	K1E	TAL IRV

Client Sample ID: AOC1-B22-N15-D1.5 — **Lab Sample ID: 440-207080-14**
Date Collected: 03/26/18 09:58 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:29	VS	TAL IRV

Client Sample ID: AOC1-B22-N15-D2.5 — **Lab Sample ID: 440-207080-15**
Date Collected: 03/26/18 10:00 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:31	VS	TAL IRV

Client Sample ID: AOC1-B22-S15-D1.5 — **Lab Sample ID: 440-207080-17**
Date Collected: 03/26/18 10:04 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:33	VS	TAL IRV

Client Sample ID: AOC1-B22-S15-D2.5 — **Lab Sample ID: 440-207080-18**
Date Collected: 03/26/18 10:06 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:40	VS	TAL IRV

Client Sample ID: AOC1-B22-S20-D1.5 — **Lab Sample ID: 440-207080-20**
Date Collected: 03/26/18 10:10 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:43	VS	TAL IRV

Client Sample ID: AOC1-B22-S20-D2.5 — **Lab Sample ID: 440-207080-21**
Date Collected: 03/26/18 10:12 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:45	VS	TAL IRV

Client Sample ID: AOC1-B8-S15-D1.5 — **Lab Sample ID: 440-207080-23**
Date Collected: 03/26/18 11:32 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:47	VS	TAL IRV

Client Sample ID: AOC1-B8-S15-D2.5 — **Lab Sample ID: 440-207080-24**
Date Collected: 03/26/18 11:34 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:49	VS	TAL IRV

Client Sample ID: AOC1-B81-NE15-D1.5 — **Lab Sample ID: 440-207080-29**
Date Collected: 03/26/18 12:32 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:52	VS	TAL IRV

Client Sample ID: AOC1-B81-NE15-D2.5 — **Lab Sample ID: 440-207080-30**
Date Collected: 03/26/18 12:34 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:54	VS	TAL IRV

Client Sample ID: AOC1-B81-NE20-D1.5 — **Lab Sample ID: 440-207080-32**
Date Collected: 03/26/18 12:38 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:56	VS	TAL IRV

Client Sample ID: AOC1-B81-NE20-D2.5 — **Lab Sample ID: 440-207080-33**
Date Collected: 03/26/18 12:40 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 22:58	VS	TAL IRV

Client Sample ID: AOC1-B81-SW15-D1.5 — **Lab Sample ID: 440-207080-35**
Date Collected: 03/26/18 12:44 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:01	VS	TAL IRV

Client Sample ID: AOC1-B81-SW15-D2.5 — **Lab Sample ID: 440-207080-36**
Date Collected: 03/26/18 12:46 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:12	VS	TAL IRV

Client Sample ID: AOC1-B81-SW20-D1.5

Lab Sample ID: 440-207080-38

Date Collected: 03/26/18 12:50

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470363	04/16/18 08:57	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:14	VS	TAL IRV

Client Sample ID: AOC1-B81-SW20-D2.5

Lab Sample ID: 440-207080-39

Date Collected: 03/26/18 12:52

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:17	VS	TAL IRV

Client Sample ID: AOC1-B77-SE22-D2.5

Lab Sample ID: 440-207080-54

Date Collected: 03/26/18 13:28

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	470363	04/16/18 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:19	VS	TAL IRV

Client Sample ID: AOC1-B112-N15-D1.5

Lab Sample ID: 440-207080-59

Date Collected: 03/26/18 14:32

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	470363	04/16/18 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:21	VS	TAL IRV

Client Sample ID: AOC1-B112-N15-D2.5

Lab Sample ID: 440-207080-60

Date Collected: 03/26/18 14:34

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	470363	04/16/18 09:00	DT	TAL IRV
Total/NA	Analysis	6010B		5			471153	04/18/18 23:23	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-470358/1-A ^5
Matrix: Solid
Analysis Batch: 471045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470358

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		04/16/18 08:52	04/17/18 01:30	5

Lab Sample ID: LCS 440-470358/2-A ^5
Matrix: Solid
Analysis Batch: 471045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470358

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	49.2		mg/Kg		99	80 - 120

Lab Sample ID: 440-208705-B-18-D MS ^5
Matrix: Solid
Analysis Batch: 471045

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 470358

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	2.3	J	50.0	48.3		mg/Kg		92	75 - 125

Lab Sample ID: 440-208705-B-18-E MSD ^5
Matrix: Solid
Analysis Batch: 471045

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 470358

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	2.3	J	49.3	47.3		mg/Kg		91	75 - 125	2	20

Lab Sample ID: MB 440-470363/1-A ^5
Matrix: Solid
Analysis Batch: 471153

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470363

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		04/16/18 08:57	04/18/18 22:13	5

Lab Sample ID: LCS 440-470363/2-A ^5
Matrix: Solid
Analysis Batch: 471153

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470363

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	47.7		mg/Kg		96	80 - 120

Lab Sample ID: 440-207080-A-12-B MS ^5
Matrix: Solid
Analysis Batch: 471153

Client Sample ID: 440-207080-A-12-B MS ^5
Prep Type: Total/NA
Prep Batch: 470363

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.6		50.0	52.6		mg/Kg		94	75 - 125

Lab Sample ID: 440-207080-A-12-C MSD ^5
Matrix: Solid
Analysis Batch: 471153

Client Sample ID: 440-207080-A-12-C MSD ^5
Prep Type: Total/NA
Prep Batch: 470363

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.6		49.8	55.1		mg/Kg		100	75 - 125	5	20

Metals

Prep Batch: 470358

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-2	AOC1-B91-N15-D1.5	Total/NA	Solid	3050B	
440-207080-3	AOC1-B91-N15-D2.5	Total/NA	Solid	3050B	
440-207080-5	AOC1-B91-N20-D1.5	Total/NA	Solid	3050B	
440-207080-6	AOC1-B91-N20-D2.5	Total/NA	Solid	3050B	
MB 440-470358/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-470358/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-208705-B-18-D MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-208705-B-18-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 470363

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-14	AOC1-B22-N15-D1.5	Total/NA	Solid	3050B	
440-207080-15	AOC1-B22-N15-D2.5	Total/NA	Solid	3050B	
440-207080-17	AOC1-B22-S15-D1.5	Total/NA	Solid	3050B	
440-207080-18	AOC1-B22-S15-D2.5	Total/NA	Solid	3050B	
440-207080-20	AOC1-B22-S20-D1.5	Total/NA	Solid	3050B	
440-207080-21	AOC1-B22-S20-D2.5	Total/NA	Solid	3050B	
440-207080-23	AOC1-B8-S15-D1.5	Total/NA	Solid	3050B	
440-207080-24	AOC1-B8-S15-D2.5	Total/NA	Solid	3050B	
440-207080-29	AOC1-B81-NE15-D1.5	Total/NA	Solid	3050B	
440-207080-30	AOC1-B81-NE15-D2.5	Total/NA	Solid	3050B	
440-207080-32	AOC1-B81-NE20-D1.5	Total/NA	Solid	3050B	
440-207080-33	AOC1-B81-NE20-D2.5	Total/NA	Solid	3050B	
440-207080-35	AOC1-B81-SW15-D1.5	Total/NA	Solid	3050B	
440-207080-36	AOC1-B81-SW15-D2.5	Total/NA	Solid	3050B	
440-207080-38	AOC1-B81-SW20-D1.5	Total/NA	Solid	3050B	
440-207080-39	AOC1-B81-SW20-D2.5	Total/NA	Solid	3050B	
440-207080-54	AOC1-B77-SE22-D2.5	Total/NA	Solid	3050B	
440-207080-59	AOC1-B112-N15-D1.5	Total/NA	Solid	3050B	
440-207080-60	AOC1-B112-N15-D2.5	Total/NA	Solid	3050B	
MB 440-470363/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-470363/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-207080-A-12-B MS ^5	440-207080-A-12-B MS ^5	Total/NA	Solid	3050B	
440-207080-A-12-C MSD ^5	440-207080-A-12-C MSD ^5	Total/NA	Solid	3050B	

Analysis Batch: 471045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-2	AOC1-B91-N15-D1.5	Total/NA	Solid	6010B	470358
440-207080-3	AOC1-B91-N15-D2.5	Total/NA	Solid	6010B	470358
440-207080-5	AOC1-B91-N20-D1.5	Total/NA	Solid	6010B	470358
440-207080-6	AOC1-B91-N20-D2.5	Total/NA	Solid	6010B	470358
MB 440-470358/1-A ^5	Method Blank	Total/NA	Solid	6010B	470358
LCS 440-470358/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	470358
440-208705-B-18-D MS ^5	Matrix Spike	Total/NA	Solid	6010B	470358
440-208705-B-18-E MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	470358

Analysis Batch: 471153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-14	AOC1-B22-N15-D1.5	Total/NA	Solid	6010B	470363
440-207080-15	AOC1-B22-N15-D2.5	Total/NA	Solid	6010B	470363
440-207080-17	AOC1-B22-S15-D1.5	Total/NA	Solid	6010B	470363

Metals (Continued)

Analysis Batch: 471153 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-18	AOC1-B22-S15-D2.5	Total/NA	Solid	6010B	470363
440-207080-20	AOC1-B22-S20-D1.5	Total/NA	Solid	6010B	470363
440-207080-21	AOC1-B22-S20-D2.5	Total/NA	Solid	6010B	470363
440-207080-23	AOC1-B8-S15-D1.5	Total/NA	Solid	6010B	470363
440-207080-24	AOC1-B8-S15-D2.5	Total/NA	Solid	6010B	470363
440-207080-29	AOC1-B81-NE15-D1.5	Total/NA	Solid	6010B	470363
440-207080-30	AOC1-B81-NE15-D2.5	Total/NA	Solid	6010B	470363
440-207080-32	AOC1-B81-NE20-D1.5	Total/NA	Solid	6010B	470363
440-207080-33	AOC1-B81-NE20-D2.5	Total/NA	Solid	6010B	470363
440-207080-35	AOC1-B81-SW15-D1.5	Total/NA	Solid	6010B	470363
440-207080-36	AOC1-B81-SW15-D2.5	Total/NA	Solid	6010B	470363
440-207080-38	AOC1-B81-SW20-D1.5	Total/NA	Solid	6010B	470363
440-207080-39	AOC1-B81-SW20-D2.5	Total/NA	Solid	6010B	470363
440-207080-54	AOC1-B77-SE22-D2.5	Total/NA	Solid	6010B	470363
440-207080-59	AOC1-B112-N15-D1.5	Total/NA	Solid	6010B	470363
440-207080-60	AOC1-B112-N15-D2.5	Total/NA	Solid	6010B	470363
MB 440-470363/1-A ^5	Method Blank	Total/NA	Solid	6010B	470363
LCS 440-470363/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	470363
440-207080-A-12-B MS ^5	440-207080-A-12-B MS ^5	Total/NA	Solid	6010B	470363
440-207080-A-12-C MSD ^5	440-207080-A-12-C MSD ^5	Total/NA	Solid	6010B	470363

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-3

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Thursday, April 12, 2018 1:40 PM
To: Kim, Martin C.
Cc: Mata, Patty
Subject: RE: Step-down sampling

-External Email-

Martin
Thanks for catching I never collect an AOC1-B22-N20 sample. I want to have the following logged in and analyzed.

- AOC1-B22-S15-D1.5 and AOC1-B22-S15-D2.5
- AOC1-B22-S20-D1.5 and AOC1-B22-S20-D2.5

From: Kim, Martin C. <Martin.Kim@testamericainc.com>
Sent: Thursday, April 12, 2018 12:55 PM
To: King, Justin <Justin.King@parsons.com>
Cc: Mata, Patty <Patty.Mata@testamericainc.com>
Subject: FW: Step-down sampling

Hello,

I was going through the list and I noticed that two of the samples from the list weren't on that particular job.

- AOC1-B22-N20-D1.5 and AOC1-B22-N20-D2.5

The rest of the samples from the list have been logged in for total As tests. Please verify the sample ID's of these two samples. The only two samples left with AOC1-B22 are AOC1-B22-S20-D1.5/2.5 and AOC1-B22-S15-D1.5/2.5.

Martin Kim
Project Management Assistant

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

17461 Derian Avenue Suite #100
Irvine, CA 92614
Tel 949 261 1022 Fax 949 260 3299
Dir 949 260 3280
www.testamericainc.com[testamericainc.com]

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at : Project Feedback https://www.surveymonkey.com/s/TAProjectFeedback[surveymonkey.com]

CONFIDENTIALITY NOTICE: This e-mail communication, including any attachments, may contain privileged or confidential information for the use of the recipient(s) named above and is protected by law. If you are not the intended recipient(s), you are hereby notified that any dissemination, distribution or copying of this communication is strictly prohibited and you should delete this message and its attachments from your computer without retaining any copies. If you have received this communication in error, please reply to the sender immediately. We appreciate your cooperation

From: Mata, Patty
Sent: Thursday, April 12, 2018 11:59 AM
To: Kim, Martin C.
Subject: FW: Step-down sampling

Martin,
Do you have time to add total As tests to the samples for Parsons' Reseda High School project for me?
Client sent a list below but didn't note job numbers, he just noted IDs and 3/26/18 sampling date.
Can you add tests on std TAT to job 2 (or 3 or whatever is the next number) with today as start date?

Thank you!

PATTY MATA

From: King, Justin [mailto:Justin.King@parsons.com]
Sent: Thursday, April 12, 2018 10:11 AM
To: Mata, Patty
Subject: FW: Step-down sampling

-External Email-

Patty
I would like to run some of the held samples from the March 26th sampling event for Reseda High School.
Can you please run the following samples for Arsenic:

- AOC1-B8-S15-D1.5 and AOC1-B8-S15-D2.5
- AOC1-B22-N15-D1.5 and AOC1-B22-N15-D2.5
- AOC1-B22-N20-D1.5 and AOC1-B22-N20-D2.5
- AOC1-B77-SE22-D2.5
- AOC1-B81-NE15-D1.5 and AOC1-B81-NE15-D2.5
- AOC1-B81-NE20-D1.5 and AOC1-B81-NE20-D2.5
- AOC1-B81-SW15-D1.5 and AOC1-B81-SW15-D2.5
- AOC1-B81-SW20-D1.5 and AOC1-B81-SW20-D2.5
- AOC1-B91-N15-D1.5 and AOC1-B91-N15-D2.5
- AOC1-B91-N20-D1.5 and AOC1-B91-N20-D2.5
- AOC1-B91-E10-D1.5 and AOC1-B91-E10-D2.5
- AOC1-B112-N15-D1.5 and AOC1-B112-N15-D2.5

Thanks,
Justin

Justin King
Parsons
Field Project Manager
PH- 626-440-6133 CELL – 310-809-5793 FAX- 626-440-2993
100 West Walnut Street, Pasadena, CA 91124
justin.king@parsons.com

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
AOC1-B91-N15-D0.5	3/26/2018	0900	G	S	1			X	
AOC1-B91-N15-D1.5	3/26/18	0902	G	S	1			H	
AOC1-B91-N15-D2.5	3/26/18	0904	G	S	1			H	
AOC1-B91-N20-D0.5	3/26/18	0906	G	S	1			X	
AOC1-B91-N20-D1.5	3/26/18	0908	G	S	1			H	
AOC1-B91-N20-D2.5	3/26/18	0910	G	S	1			H	
AOC1-B91-E5-D0.5	3/26/18	0912	G	S	1			X	
AOC1-B91-E5-D1.5	3/26/18	0914	G	S	1			H	
AOC1-B91-E5-D2.5	3/26/18	0916	G	S	1			H	
AOC1-B91-E10-D0.5	3/26/18	0918	G	S	1			X	
AOC1-B91-E10-D1.5	3/26/18	0920	G	S	1			H	
AOC1-B91-E10-D2.5	3/26/18	0922	G	S	1			H	

440-207080 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

89.7/.4 89.4/.1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd._____ Corr'd._____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAL	Date/Time: 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client.
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes.
AOC1-B22-N15-0.5	3/26/2018	0956	G	S	1			X	
AOC1-B22-N15-1.5	3/26/18	0958	G	S	1			H	
AOC1-B22-N15-2.5	3/26/18	1000	G	S	1			H	
AOC1-B22-S15-0.5	3/26/18	1002	G	S	1			X	
AOC1-B22-S15-1.5	3/26/18	1004	G	S	1			H	
AOC1-B22-S15-2.5	3/26/18	1006	G	S	1			H	
AOC1-B22-S20-0.5	3/26/18	1008	G	S	1			X	
AOC1-B22-S20-1.5	3/26/18	1010	G	S	1			H	
AOC1-B22-S20-2.5	3/26/18	1012	G	S	1			H	
AOC1-B8-S15-0.5	3/26/18	1130	G	S	1			X	
AOC1-B8-S15-1.5	3/26/18	1132	G	S	1			H	
AOC1-B8-S15-2.5	3/26/18	1134	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No..____		
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAL	Date/Time: 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
AOC1-B8-S20-D0.5	3/26/2018	1136	G	S	1			X	
AOC1-B8-S20-D1.5	3/26/18	1139	G	S	1			H	
AOC1-B8-S20-D2.5	3/26/18	1140	G	S	1			H	
AOC1-B81-NE15-D0.5	3/26/18	1230	G	S	1			X	
AOC1-B81-NE15-D1.5	3/26/18	1232	G	S	1			H	
AOC1-B81-NE15-D2.5	3/26/18	1234	G	S	1			H	
AOC1-B81-NE20-D0.5	3/26/18	1236	G	S	1			X	
AOC1-B81-NE20-D1.5	3/26/18	1238	G	S	1			H	
AOC1-B81-NE20-D2.5	3/26/18	1240	G	S	1			H	
AOC1-B81-SW15-D0.5	3/26/18	1242	G	S	1			X	
AOC1-B81-SW15-D1.5	3/26/18	1244	G	S	1			H	
AOC1-B81-SW15-D2.5	3/26/18	1246	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C). Obs'd:____ Corr'd:____ Therm ID No.:____

Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: Tav	Date/Time: 3-26-18 15nc
Relinquished by:	Company: Tav	Date/Time: 3-26-18 18nc	Received by:	Company.	Date/Time:
Relinquished by:	Company.	Date/Time.	Received in Laboratory by:	Company: TAV - 112 V	Date/Time: 3/26/18 1846

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/19/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
AOC1-B81-SW20-D0.5	3/26/2018	1248	G	S	1			X	
AOC1-B81-SW20-D1.5	3/26/18	1250	G	S	1			H	
AOC1-B81-SW20-D2.5	3/26/18	1252	G	S	1			H	
AOC1-B77-NW5-D3.5	3/26/18	1300	G	S	1			X	
AOC1-B77-NW10-D3.5	3/26/18	1302	G	S	1			X	
~~AOC1-B77-NE10~~			G	S	1				
AOC1-B77-NSE5-D3.5	3/26/18	1304	G	S	1			X	
AOC1-B77-D3.5	3/26/18	1306	G	S	1			X	
AOC1-B77-NW20-D0.5	3/26/18	1308	G	S	1			X	
AOC1-B77-NW20-D1.5	3/26/18	1310	G	S	1			X	
AOC1-B77-NW20-D2.5	3/26/18	1312	G	S	1			X	
AOC1-B77-NW20-D3.5	3/26/18	1314	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd._____ Corr'd._____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company TAL	Date/Time. 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company TA-IRV	Date/Time: 3/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 28 of 32

4/19/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No: 5 of 7 COCs
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	Sampler: Nenette Paulson
100 West Walnut St	Analysis Turnaround Time			For Lab Use Only:
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
(626) 440-6133	TAT if different from Below ____ Std ____			Lab Sampling
	☐ 2 weeks			
Project Name: Resdea HS PEA	☐ 1 week			Job / SDG No..
Site: Reseda HS	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
AOC1-B77-NW38-B0.5	3/26/2018	1316	G	S	1			X	
AOC1-B77-NW38-B1.5	3/26/18	1318	G	S	1			X	
AOC1-B77-NW38-B2.5	3/26/18	1320	G	S	1			X	
AOC1-B77-NW38-B3.5	3/26/18	1327	G	S	1			H	
AOC1-B77-SE22-B0.5	3/26/18	1324	G	S	1			X	
AOC1-B77-SE22-B1.5	3/26/18	1326	G	S	1			X	
AOC1-B77-SE22-B2.5	3/26/18	1325	G	S	1			H	
AOC1 B78-NW22-B0.5	3/26/18	1330	G	S	1			X	
AOC1-B78-NW22-B1.5	3/26/18	1332	G	S	1			H	
AOC1-B78-NW22-B2.5	3/26/18	1334	G	S	1			H	
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TA	Date/Time: 3-26-18 15[illegible]
Relinquished by:	Company: TA	Date/Time: 3-26-18 1840	Received by	Company.	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/19/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
AOC1-B11C-N15-D0.5	3/26/2018	1430	G	S	1			X	
AOC1-B112-N15-D1.5	3/26/18	1432	G	S	1			H	
AOC1-B112-N15-D2.5	3/26/18	1434	G	S	1			H	
AOC1-B112-N20-D0.5	3/26/18	1436	G	S	1			X	
AOC1-B112-N20-D1.5	3/26/18	1438	G	S	1			H	
AOC1-B112-N20-D2.5	3/26/18	1442	G	S	1			H	
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: Parsons	Date/Time: 3-26-18 15 [illegible]
Relinquished by:	Company: TAL	Date/Time: 3.26.18 [illegible]	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/19/2018

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
T-032618A	3/26/2018	0730	G	~~W~~	1			X	Field Blank
AOC1B8-S 15-P0.5-D	3/26/18	1130	G	S	1		X	X	
AOC1-B22-S 20-P0.5-D	3/26/18	1109	G	S	1		X	X	
AOC1-B77-NW20-P0.5-D	3/26/18	1308	G	S	1		X	X	
AOC1-B77-NW38-P0.5-D	3/26/18	1316	G	S	1		X	X	
AOC1-B81-NE15-P0.5-D	3/26/18	1230	G	S	1		X	X	
AOC1-B81-SW20-P0.5-D	3/26/18	1245	G	S	1		X	X	
AOC1-B71-C10-P0.5-D	3/26/18	0918	G	S	1		X	X	
AOC1-B112-N15-P0.5-D	3/26/18	1430	G	S	1		X	X	
~~AOC1-B112-N15-P0.5-D~~			G	S	1				
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No: _____
Relinquished by	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAI	Date/Time: 3.26.18 1500
Relinquished by:	Company: TAI	Date/Time: 3-26-18 1846	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/19/2018

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-207080-3

Login Number: 207080

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-211214-2
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
6/5/2018 1:28:28 PM
Dennis Tran, Project Manager I
dennis.tran@testamericainc.com

Designee for

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 9
QC Association Summary 10
Definitions/Glossary 11
Certification Summary 12
Chain of Custody 13
Receipt Checklists 18

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-211214-6	AOC1-B81-NE35-D1.5	Solid	05/12/18 09:44	05/12/18 14:10
440-211214-7	AOC1-B81-NE35-D2.5	Solid	05/12/18 09:48	05/12/18 14:10

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Job ID: 440-211214-2

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-211214-2

Comments
No additional comments.

Receipt
The samples were received on 5/12/2018 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

Receipt Exceptions
Only the results of additional tests requested per client's 5/24/18 email are included in this report.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Client Sample ID: AOC1-B81-NE35-D1.5 — Lab Sample ID: 440-211214-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.6		2.9	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE35-D2.5 — Lab Sample ID: 440-211214-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Client Sample ID: AOC1-B81-NE35-D1.5

Lab Sample ID: 440-211214-6

Date Collected: 05/12/18 09:44
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.6		2.9	1.5	mg/Kg		05/29/18 08:26	06/04/18 12:22	5

Client Sample ID: AOC1-B81-NE35-D2.5

Lab Sample ID: 440-211214-7

Date Collected: 05/12/18 09:48
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		05/29/18 08:26	06/04/18 12:35	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Client Sample ID: AOC1-B81-NE35-D1.5

Lab Sample ID: 440-211214-6

Date Collected: 05/12/18 09:44

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.04 g	50 mL	478928	05/29/18 08:26	DT	TAL IRV
Total/NA	Analysis	6010B		5			480198	06/04/18 12:22	VS	TAL IRV

Client Sample ID: AOC1-B81-NE35-D2.5

Lab Sample ID: 440-211214-7

Date Collected: 05/12/18 09:48

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	478928	05/29/18 08:26	DT	TAL IRV
Total/NA	Analysis	6010B		5			480198	06/04/18 12:35	VS	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-478928/1-A ^5
Matrix: Solid
Analysis Batch: 480198

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 478928

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		05/29/18 08:26	06/04/18 12:17	5

Lab Sample ID: LCS 440-478928/2-A ^5
Matrix: Solid
Analysis Batch: 480198

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 478928

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			49.8	47.2		mg/Kg		95	80 - 120		

Lab Sample ID: 440-211214-6 MS
Matrix: Solid
Analysis Batch: 480198

Client Sample ID: AOC1-B81-NE35-D1.5
Prep Type: Total/NA
Prep Batch: 478928

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	6.6		49.8	51.8		mg/Kg		91	75 - 125		

Lab Sample ID: 440-211214-6 MSD
Matrix: Solid
Analysis Batch: 480198

Client Sample ID: AOC1-B81-NE35-D1.5
Prep Type: Total/NA
Prep Batch: 478928

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.6		49.8	50.5		mg/Kg		88	75 - 125	3	20

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Metals

Prep Batch: 478928

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-6	AOC1-B81-NE35-D1.5	Total/NA	Solid	3050B	
440-211214-7	AOC1-B81-NE35-D2.5	Total/NA	Solid	3050B	
MB 440-478928/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-478928/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-211214-6 MS	AOC1-B81-NE35-D1.5	Total/NA	Solid	3050B	
440-211214-6 MSD	AOC1-B81-NE35-D1.5	Total/NA	Solid	3050B	

Analysis Batch: 480198

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-6	AOC1-B81-NE35-D1.5	Total/NA	Solid	6010B	478928
440-211214-7	AOC1-B81-NE35-D2.5	Total/NA	Solid	6010B	478928
MB 440-478928/1-A ^5	Method Blank	Total/NA	Solid	6010B	478928
LCS 440-478928/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	478928
440-211214-6 MS	AOC1-B81-NE35-D1.5	Total/NA	Solid	6010B	478928
440-211214-6 MSD	AOC1-B81-NE35-D1.5	Total/NA	Solid	6010B	478928

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-2

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18 *

Analysis Method	Prep Method	Matrix	Analyte

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 5/12/18	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std X			Walk-In Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O # 450810	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B77-SW5-D3.5	5/12/18	1030	G	S	1			X				
AOC1-B77-SW5-D5.0	5/12/18	1036	G	S	1			H				
AOC1-B81-D3.5	5/12/18	0930	G	S	1			X				
AOC1-B81-D5.0-WE	5/12/18	0936	G	S	1			H				
AOC1-B81-~~AW~~35-D05	5/12/18	0940	G	S	1			X				
AOC1-B81-~~WE AW~~35-D1.5	5/12/18	0944	G	S	1			H				
AOC1-B81-~~WE~~W35-D2.5	5/12/18	0948	G	S	1			H				
AOC1-B81-~~AWE~~W35-D05D	5/12/18	0941	G	S	1	Y		X				Duplicate
AOC1-B91-N5-D3.5	5/12/18	0830	G	S	1			X				
AOC1-B91-N5-D5.0	5/12/18	0836	G	S	1			H				
AOC1-B91-N30-D05	5/12/18	0840	G	S	1			X				
AOC1-B91-N30-D1.5	5/12/18	0844	G	S	1			H				

440-211214 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

H = Hold

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C). Obs'd: ___ Corr'd: ___ Therm ID No.: ___		
Relinquished by: N Paulson	Company: Parsons	Date/Time: 5/12/18 1603	Received by:	Company: TA-IRV	Date/Time: 5/12/18 1103
Relinquished by:	Company: TA-IRV	Date/Time: 5/12/18 1410	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TAIRV	Date/Time: 5/12/18 1410

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

10/1.0 1L-SC4

5/11/18 CA

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Wednesday, May 23, 2018 5:25 PM
To: Mata, Patty
Subject: RE: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA

-External Email-

Patty
Can you run samples AOC1-B81-NW35-D1.5 and AOC1-B81-NW35-D2.5 for arsenic?
Thanks
Justin

From: Mata, Patty <patty.mata@testamericainc.com>
Sent: Wednesday, May 23, 2018 10:41 AM
To: King, Justin <Justin.King@parsons.com>
Subject: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA

Hello,

Attached please find the report files for job 440-211214-1; LAUSD Reseda H.S., CA

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

PATTY MATA
Project Manager

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [449221]
Attachments: 1

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Friday, May 25, 2018 1:40 PM
To: Mata, Patty
Subject: RE: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA
Attachments: SKMBT_36318052513340.pdf

-External Email-

Patty
I just realized that there was an error with a sample ID. I have corrected it on the attached COC but it is a little hard to see. Can you please change the following:
AOC1-B81-NW35-D0.5 should be AOC1-B81-NE35-D0.5
AOC1-B81-NW35-D0.5D should be AOC1-B81-NE35-D0.5D
AOC1-B81-NW35-D1.5 should be AOC1-B81-NE35-D1.5
AOC1-B81-NW35-D2.5 should be AOC1-B81-NE35-D2.5
This will affect the two samples that I released for analysis.
Thanks
Justin

From: Mata, Patty <patty.mata@testamericainc.com>
Sent: Wednesday, May 23, 2018 10:41 AM
To: King, Justin <Justin.King@parsons.com>
Subject: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA

Hello,

Attached please find the report files for job 440-211214-1; LAUSD Reseda H.S., CA

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

PATTY MATA
Project Manager

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [449221]
Attachments: 1

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 5/12/18	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std X			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O # 450810	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B77-SW5-D3.5	5/12/18	1030	G	S	1			X				
AOC1-B77-SW5-D5.0	5/12/18	1036	G	S	1			H				
AOC1-B81-D3.5	5/12/18	0930	G	S	1			X				
AOC1-B81-D5.0	5/12/18	0936	G	S	1			H				
AOC1-B81-NW35-D0.5	5/12/18	0940	G	S	1			X				
AOC1-B81-NW35-D1.5	5/12/18	0944	G	S	1			H				
AOC1-B81-NW35-D2.5	5/12/18	0948	G	S	1			H				
AOC1-B81-NW35-D0.5D	5/12/18	0941	G	S	1		Y	X				Duplicate
AOC1-B91-N5-D3.5	5/12/18	0830	G	S	1			X				
AOC1-B91-N5-D5.0	5/12/18	0836	G	S	1			H				
AOC1-B91-N30-D0.5	5/12/18	0840	G	S	1			X				
AOC1-B91-N30-D1.5	5/12/18	0844	G	S	1			H				

440-211214 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

H = Hold

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd: ___ Corr'd: ___		Therm ID No.:
Relinquished by: N. Paulson	Company: Parsons	Date/Time: 5/12/18 1103	Received by:	Company: TA-IRV	Date/Time: 5/12/18 1103
Relinquished by:	Company: TA-IRV	Date/Time: 5/12/18 1410	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TAIRV	Date/Time: 5/12/18 1410

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

10/1.0 11.5C4

6/5/2018

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

195326

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kirby	Site Contact: N. Parkson	Date: 5/12/18	COC No:
Company Name: PARSONS	Tel/Fax: 626 440 6133	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
Address 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 6264416133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic																Sample Specific Notes:
AOC1-B91-N30-D2.5	5/12/18	0848	G	S	1			H																
AOC1-B91-N40-D0.5	5/12/18	0852	G	S	1			H																
AOC1-B91-N40-D1.5	5/12/18	0856	G	S	1			H																
AOC1-B91-N40-D2.5	5/12/18	0900	G	S	1			H																
EB051218B	5/12/18		G	W	1			X																Equipment Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:
H = Hold

Custody Seals Intact. ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ | Therm ID No.: _____

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
N. Parkson	Parsons	5/12/18 1104		TA-IRV	5/12/18 1103
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	TA-IRV	5/12/18 1410			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-IRV	5/12/18 1410

LB 5/12/18

Page 17 of 18

6/5/2018

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-211214-2

Login Number: 211214
List Number: 1
Creator: Bonta, Lucia F

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-203718-1
Client Project/Site: Reseda HS PEA
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
3/5/2018 11:10:26 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 5
Detection Summary 6
Client Sample Results 15
Method Summary 28
Lab Chronicle 29
QC Sample Results 44
QC Association Summary 49
Definitions/Glossary 55
Certification Summary 56
Chain of Custody 57
Receipt Checklists 72

Sample Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-203718-1	F 021918	Water	02/19/18 07:30	02/19/18 17:20
440-203718-2	AOC1-B22-N5-D0.5	Solid	02/19/18 08:20	02/19/18 17:20
440-203718-5	AOC1-B22-N10-D0.5	Solid	02/19/18 08:35	02/19/18 17:20
440-203718-8	AOC1-B22-E5-D0.5	Solid	02/19/18 08:50	02/19/18 17:20
440-203718-11	AOC1-B22-N10-D0.5-D	Solid	02/19/18 08:35	02/19/18 17:20
440-203718-12	AOC1-B100-E5-D0.5-D	Solid	02/19/18 10:50	02/19/18 17:20
440-203718-13	AOC1-B22-S5-D0.5	Solid	02/19/18 09:05	02/19/18 17:20
440-203718-16	AOC1-B22-S10-D0.5	Solid	02/19/18 09:20	02/19/18 17:20
440-203718-19	AOC1-B100-N5-D0.5	Solid	02/19/18 09:35	02/19/18 17:20
440-203718-22	AOC1-B100-W5-D0.5	Solid	02/19/18 09:50	02/19/18 17:20
440-203718-25	AOC1-B100-W10-D0.5	Solid	02/19/18 10:05	02/19/18 17:20
440-203718-28	AOC1-B100-S5-D0.5	Solid	02/19/18 10:20	02/19/18 17:20
440-203718-31	AOC1-B100-S10-D0.5	Solid	02/19/18 10:35	02/19/18 17:20
440-203718-34	AOC1-B100-E5-D0.5	Solid	02/19/18 10:50	02/19/18 17:20
440-203718-37	AOC1-B100-E10-D0.5	Solid	02/19/18 11:05	02/19/18 17:20
440-203718-40	AOC1-B77-NW5-D0.5	Solid	02/19/18 11:20	02/19/18 17:20
440-203718-41	AOC1-B77-NW5-D1.5	Solid	02/19/18 11:22	02/19/18 17:20
440-203718-42	AOC1-B77-NW5-D2.5	Solid	02/19/18 11:24	02/19/18 17:20
440-203718-43	AOC1-B77-NW10-D0.5	Solid	02/19/18 11:26	02/19/18 17:20
440-203718-44	AOC1-B77-NW10-D1.5	Solid	02/19/18 11:28	02/19/18 17:20
440-203718-45	AOC1-B77-NW10-D2.5	Solid	02/19/18 11:30	02/19/18 17:20
440-203718-46	AOC1-B77-SW5-D0.5	Solid	02/19/18 11:32	02/19/18 17:20
440-203718-47	AOC1-B77-SW5-D1.5	Solid	02/19/18 11:34	02/19/18 17:20
440-203718-48	AOC1-B77-SW5-D2.5	Solid	02/19/18 11:36	02/19/18 17:20
440-203718-49	AOC1-B77-SW10-D0.5	Solid	02/19/18 11:38	02/19/18 17:20
440-203718-50	AOC1-B77-SW10-D1.5	Solid	02/19/18 11:40	02/19/18 17:20
440-203718-51	AOC1-B77-SW10-D2.5	Solid	02/19/18 11:42	02/19/18 17:20
440-203718-52	AOC1-B77-SE5-D0.5	Solid	02/19/18 11:44	02/19/18 17:20
440-203718-53	AOC1-B77-SE5-D1.5	Solid	02/19/18 11:46	02/19/18 17:20
440-203718-54	AOC1-B77-SE5-D2.5	Solid	02/19/18 11:48	02/19/18 17:20
440-203718-55	AOC1-B77-SE10-D0.5	Solid	02/19/18 11:50	02/19/18 17:20
440-203718-56	AOC1-B77-SE10-D1.5	Solid	02/19/18 11:52	02/19/18 17:20
440-203718-57	AOC1-B77-SE10-D2.5	Solid	02/19/18 11:54	02/19/18 17:20
440-203718-58	AOC1-B78-NW5-D0.5	Solid	02/19/18 11:56	02/19/18 17:20
440-203718-59	AOC1-B78-NW5-D1.5	Solid	02/19/18 11:58	02/19/18 17:20
440-203718-61	AOC1-B77-NW5-D2.5-D	Solid	02/19/18 11:24	02/19/18 17:20
440-203718-62	AOC1-B78-NW10-D0.5-D	Solid	02/19/18 12:02	02/19/18 17:20
440-203718-63	AOC1-B78-SW10-D0.5-D	Solid	02/19/18 12:14	02/19/18 17:20
440-203718-64	AOC1-B78-SE5-D1.5-D	Solid	02/19/18 12:22	02/19/18 17:20
440-203718-65	AOC1-B78-NW10-D0.5	Solid	02/19/18 12:02	02/19/18 17:20
440-203718-66	AOC1-B78-NW10-D1.5	Solid	02/19/18 12:04	02/19/18 17:20
440-203718-68	AOC1-B78-SW5-D0.5	Solid	02/19/18 12:08	02/19/18 17:20
440-203718-69	AOC1-B78-SW5-D1.5	Solid	02/19/18 12:10	02/19/18 17:20
440-203718-71	AOC1-B81-SW5-D1.5	Solid	02/19/18 12:46	02/19/18 17:20
440-203718-72	AOC1-B81-NW5-D1.5-D	Solid	02/19/18 12:26	02/19/18 17:20
440-203718-73	AOC1-B78-SW10-D0.5	Solid	02/19/18 12:14	02/19/18 17:20
440-203718-74	AOC1-B78-SW10-D1.5	Solid	02/19/18 12:16	02/19/18 17:20
440-203718-76	AOC1-B78-SE5-D0.5	Solid	02/19/18 12:20	02/19/18 17:20
440-203718-77	AOC1-B78-SE5-D1.5	Solid	02/19/18 12:22	02/19/18 17:20
440-203718-79	AOC1-B81-NW5-D0.5	Solid	02/19/18 12:26	02/19/18 17:20
440-203718-80	AOC1-B81-NW5-D1.5	Solid	02/19/18 12:28	02/19/18 17:20
440-203718-81	AOC1-B81-NW5-D2.5	Solid	02/19/18 12:30	02/19/18 17:20
440-203718-82	AOC1-B81-NE5-D0.5	Solid	02/19/18 12:32	02/19/18 17:20

Sample Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-203718-83	AOC1-B81-NE5-D1.5	Solid	02/19/18 12:34	02/19/18 17:20
440-203718-84	AOC1-B81-NE5-D2.5	Solid	02/19/18 12:36	02/19/18 17:20
440-203718-85	AOC1-B81-NE10-D0.5	Solid	02/19/18 12:38	02/19/18 17:20
440-203718-86	AOC1-B81-NE10-D1.5	Solid	02/19/18 12:40	02/19/18 17:20
440-203718-87	AOC1-B81-NE10-D2.5	Solid	02/19/18 12:42	02/19/18 17:20
440-203718-88	AOC1-B81-SW5-D0.5	Solid	02/19/18 12:44	02/19/18 17:20
440-203718-89	AOC1-B81-SW5-D1.5	Solid	02/19/18 12:46	02/19/18 17:20
440-203718-90	AOC1-B81-SW5-D2.5	Solid	02/19/18 12:48	02/19/18 17:20
440-203718-91	AOC1-B81-SW10-D0.5	Solid	02/19/18 12:50	02/19/18 17:20
440-203718-92	AOC1-B81-SW10-D1.5	Solid	02/19/18 12:52	02/19/18 17:20
440-203718-93	AOC1-B81-SW10-D2.5	Solid	02/19/18 12:54	02/19/18 17:20
440-203718-94	AOC1-B81-SE5-D0.5	Solid	02/19/18 12:56	02/19/18 17:20
440-203718-95	AOC1-B81-SE5-D1.5	Solid	02/19/18 12:58	02/19/18 17:20
440-203718-96	AOC1-B81-SE5-D2.5	Solid	02/19/18 13:00	02/19/18 17:20
440-203718-97	AOC1-B81-SE10-D0.5	Solid	02/19/18 13:02	02/19/18 17:20
440-203718-98	AOC1-B81-SE10-D1.5	Solid	02/19/18 13:04	02/19/18 17:20
440-203718-99	AOC1-B81-SE10-D2.5	Solid	02/19/18 13:06	02/19/18 17:20
440-203718-100	AOC1-B112-N5-D0.5	Solid	02/19/18 13:08	02/19/18 17:20
440-203718-103	AOC1-B112-N10-D0.5	Solid	02/19/18 13:14	02/19/18 17:20
440-203718-106	AOC1-B112-W5-D0.5	Solid	02/19/18 13:20	02/19/18 17:20
440-203718-109	AOC1-B108-S10-D0.5	Solid	02/19/18 13:44	02/19/18 17:20
440-203718-112	AOC1-B6-N5-D0.5	Solid	02/19/18 13:36	02/19/18 17:20
440-203718-115	AOC1-B6-N10-D0.5	Solid	02/19/18 13:30	02/19/18 17:20
440-203718-118	AOC1-B6-W5-D0.5	Solid	02/19/18 13:40	02/19/18 17:20
440-203718-121	AOC1-B6-W10-D0.5	Solid	02/19/18 13:46	02/19/18 17:20
440-203718-124	AOC1-B6-S5-D0.5	Solid	02/19/18 13:52	02/19/18 17:20
440-203718-127	AOC1-B6-S10-D0.5	Solid	02/19/18 13:57	02/19/18 17:20
440-203718-130	AOC1-B8-S10-D0.5	Solid	02/19/18 14:14	02/19/18 17:20
440-203718-133	AOC1-B112-W10-D0.5	Solid	02/19/18 13:26	02/19/18 17:20
440-203718-136	AOC1-B112-W5-D0.5-D	Solid	02/19/18 13:20	02/19/18 17:20
440-203718-137	AOC1-B108-E5-D0.5	Solid	02/19/18 13:44	02/19/18 17:20
440-203718-140	AOC1-B108-S5-D0.5	Solid	02/19/18 13:32	02/19/18 17:20
440-203718-143	AOC1-B108-S10-D0.5-D	Solid	02/19/18 13:38	02/19/18 17:20
440-203718-144	AOC1-B8-S10-D0.5-D	Solid	02/19/18 14:15	02/19/18 17:20

Case Narrative

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Job ID: 440-203718-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-203718-1

Comments
This report was revised on 3/5/18 to change the sample ID for the following sample per client's 3/2/18 email request: AOC1-B81-NW5-D1.5-D (440-203718-72).

Receipt
The samples were received on 2/19/2018 5:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 1.3º C, 1.5º C, 3.1º C and 3.3º C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): AOC1-B100-E5-D0.5 (440-203718-34), AOC1-B78-SE5-D1.5-D (440-203718-64), AOC1-B81-NW5-D1.5 (440-203718-72), AOC1-B81-SW5-D1.5 (440-203718-89), AOC1-B108-S10-D0.5 (440-203718-109), AOC1-B108-S10-D1.5 (440-203718-110) and AOC1-B108-S10-D2.5 (440-203718-111).

Sample #34 The container labels list A0C1-B100-E5-00.5 09:50 , while the COC lists A0C1-B100-E5-00.5 @10:50.
Sample #64 The container labels list A0C1-B78-SW10-D1.5. @12:22 , while the COC lists A0C1-B78-SE5-D1.5-D @12:22.
Sample #72 The container labels list A0C1-B81-NW5-01.5-D @12:26, while the COC lists A0C1-B81-NW5-01.5 @12:26.
Sample #89 The container labels list A0C1-B81-SW5-D1.5-D @12:46, while the COC lists A0C1-B81-SW5-D1.5 @12:46.
Sample #109 The container labels list A0C1-B108-S10-00.5 @13:38, while the COC lists A0C1-B108-S10-00.5 @13:44.
Sample #110 The container labels list A0C1-B108-S10-01.5 @13:40, while the COC lists A0C1-B108-S10-01.5 @13:46.
Sample #111 The container labels list A0C1-B108-S10-D2.5 @13:42, while the COC lists A0C1-B108-S10-D2.5 @13:48.

Samples were logged in per COC.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: F 021918 — Lab Sample ID: 440-203718-1

No Detections.

Client Sample ID: AOC1-B22-N5-D0.5 — Lab Sample ID: 440-203718-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N10-D0.5 — Lab Sample ID: 440-203718-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	23		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-E5-D0.5 — Lab Sample ID: 440-203718-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N10-D0.5-D — Lab Sample ID: 440-203718-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-E5-D0.5-D — Lab Sample ID: 440-203718-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	13		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S5-D0.5 — Lab Sample ID: 440-203718-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S10-D0.5 — Lab Sample ID: 440-203718-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	18		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-N5-D0.5 — Lab Sample ID: 440-203718-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.8		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-W5-D0.5 — Lab Sample ID: 440-203718-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	36		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-W10-D0.5 — Lab Sample ID: 440-203718-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	17		2.0	0.99	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B100-S5-D0.5 — Lab Sample ID: 440-203718-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	11		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-S10-D0.5 — Lab Sample ID: 440-203718-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	26		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-E5-D0.5 — Lab Sample ID: 440-203718-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	21		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B100-E10-D0.5 — Lab Sample ID: 440-203718-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	29		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW5-D0.5 — Lab Sample ID: 440-203718-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW5-D1.5 — Lab Sample ID: 440-203718-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW5-D2.5 — Lab Sample ID: 440-203718-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW10-D0.5 — Lab Sample ID: 440-203718-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW10-D1.5 — Lab Sample ID: 440-203718-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW10-D2.5 — Lab Sample ID: 440-203718-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW5-D0.5 — Lab Sample ID: 440-203718-46

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-SW5-D0.5 (Continued) — Lab Sample ID: 440-203718-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW5-D1.5 — Lab Sample ID: 440-203718-47

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW5-D2.5 — Lab Sample ID: 440-203718-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW10-D0.5 — Lab Sample ID: 440-203718-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW10-D1.5 — Lab Sample ID: 440-203718-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SW10-D2.5 — Lab Sample ID: 440-203718-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE5-D0.5 — Lab Sample ID: 440-203718-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE5-D1.5 — Lab Sample ID: 440-203718-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE5-D2.5 — Lab Sample ID: 440-203718-54

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE10-D0.5 — Lab Sample ID: 440-203718-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	32		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE10-D1.5 — Lab Sample ID: 440-203718-56

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-SE10-D1.5 (Continued) — Lab Sample ID: 440-203718-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE10-D2.5 — Lab Sample ID: 440-203718-57

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW5-D0.5 — Lab Sample ID: 440-203718-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW5-D1.5 — Lab Sample ID: 440-203718-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW5-D2.5-D — Lab Sample ID: 440-203718-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW10-D0.5-D — Lab Sample ID: 440-203718-62

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	22		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SW10-D0.5-D — Lab Sample ID: 440-203718-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SE5-D1.5-D — Lab Sample ID: 440-203718-64

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW10-D0.5 — Lab Sample ID: 440-203718-65

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW10-D1.5 — Lab Sample ID: 440-203718-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SW5-D0.5 — Lab Sample ID: 440-203718-68

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B78-SW5-D0.5 (Continued) — Lab Sample ID: 440-203718-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SW5-D1.5 — Lab Sample ID: 440-203718-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW5-D1.5 — Lab Sample ID: 440-203718-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NW5-D1.5-D — Lab Sample ID: 440-203718-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SW10-D0.5 — Lab Sample ID: 440-203718-73

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SW10-D1.5 — Lab Sample ID: 440-203718-74

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SE5-D0.5 — Lab Sample ID: 440-203718-76

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	31		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-SE5-D1.5 — Lab Sample ID: 440-203718-77

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NW5-D0.5 — Lab Sample ID: 440-203718-79

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NW5-D1.5 — Lab Sample ID: 440-203718-80

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NW5-D2.5 — Lab Sample ID: 440-203718-81

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B81-NW5-D2.5 (Continued) — Lab Sample ID: 440-203718-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE5-D0.5 — Lab Sample ID: 440-203718-82

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE5-D1.5 — Lab Sample ID: 440-203718-83

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE5-D2.5 — Lab Sample ID: 440-203718-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE10-D0.5 — Lab Sample ID: 440-203718-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE10-D1.5 — Lab Sample ID: 440-203718-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE10-D2.5 — Lab Sample ID: 440-203718-87

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW5-D0.5 — Lab Sample ID: 440-203718-88

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW5-D1.5 — Lab Sample ID: 440-203718-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW5-D2.5 — Lab Sample ID: 440-203718-90

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW10-D0.5 — Lab Sample ID: 440-203718-91

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B81-SW10-D0.5 (Continued) — Lab Sample ID: 440-203718-91

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	33		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW10-D1.5 — Lab Sample ID: 440-203718-92

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW10-D2.5 — Lab Sample ID: 440-203718-93

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE5-D0.5 — Lab Sample ID: 440-203718-94

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE5-D1.5 — Lab Sample ID: 440-203718-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE5-D2.5 — Lab Sample ID: 440-203718-96

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.1		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE10-D0.5 — Lab Sample ID: 440-203718-97

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE10-D1.5 — Lab Sample ID: 440-203718-98

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SE10-D2.5 — Lab Sample ID: 440-203718-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N5-D0.5 — Lab Sample ID: 440-203718-100

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N10-D0.5 — Lab Sample ID: 440-203718-103

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B112-N10-D0.5 (Continued) — Lab Sample ID: 440-203718-103

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-W5-D0.5 — Lab Sample ID: 440-203718-106

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-S10-D0.5 — Lab Sample ID: 440-203718-109

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.6		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	7.4		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-N5-D0.5 — Lab Sample ID: 440-203718-112

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	16		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-N10-D0.5 — Lab Sample ID: 440-203718-115

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.3		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-W5-D0.5 — Lab Sample ID: 440-203718-118

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	7.5		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-W10-D0.5 — Lab Sample ID: 440-203718-121

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	5.3		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-S5-D0.5 — Lab Sample ID: 440-203718-124

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.0		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B6-S10-D0.5 — Lab Sample ID: 440-203718-127

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	9.6		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S10-D0.5 — Lab Sample ID: 440-203718-130

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	18		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-W10-D0.5 — Lab Sample ID: 440-203718-133

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B112-W10-D0.5 (Continued) — Lab Sample ID: 440-203718-133

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-W5-D0.5-D — Lab Sample ID: 440-203718-136

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-E5-D0.5 — Lab Sample ID: 440-203718-137

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.1		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.6		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-S5-D0.5 — Lab Sample ID: 440-203718-140

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	6.0		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B108-S10-D0.5-D — Lab Sample ID: 440-203718-143

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA
Lead	5.3		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S10-D0.5-D — Lab Sample ID: 440-203718-144

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	17		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: F 021918
Lab Sample ID: 440-203718-1
Date Collected: 02/19/18 07:30
Matrix: Water
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		02/22/18 13:51	02/23/18 12:02	1
Lead	ND		0.0050	0.0038	mg/L		02/22/18 13:51	02/23/18 12:02	1

Client Sample ID: AOC1-B22-N5-D0.5
Lab Sample ID: 440-203718-2
Date Collected: 02/19/18 08:20
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:43	5

Client Sample ID: AOC1-B22-N10-D0.5
Lab Sample ID: 440-203718-5
Date Collected: 02/19/18 08:35
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:46	5

Client Sample ID: AOC1-B22-E5-D0.5
Lab Sample ID: 440-203718-8
Date Collected: 02/19/18 08:50
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.1		3.0	1.5	mg/Kg		02/26/18 09:11	02/26/18 17:33	5

Client Sample ID: AOC1-B22-N10-D0.5-D
Lab Sample ID: 440-203718-11
Date Collected: 02/19/18 08:35
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:32	5

Client Sample ID: AOC1-B100-E5-D0.5-D
Lab Sample ID: 440-203718-12
Date Collected: 02/19/18 10:50
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	13		2.0	1.0	mg/Kg		02/23/18 08:51	02/23/18 16:38	5

Client Sample ID: AOC1-B22-S5-D0.5
Lab Sample ID: 440-203718-13
Date Collected: 02/19/18 09:05
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:48	5

Client Sample ID: AOC1-B22-S10-D0.5
Lab Sample ID: 440-203718-16
Date Collected: 02/19/18 09:20
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:56	5

Client Sample ID: AOC1-B100-N5-D0.5
Lab Sample ID: 440-203718-19
Date Collected: 02/19/18 09:35
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.8		2.0	0.99	mg/Kg		02/23/18 08:51	02/23/18 15:59	5

Client Sample ID: AOC1-B100-W5-D0.5
Lab Sample ID: 440-203718-22
Date Collected: 02/19/18 09:50
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	36		2.0	1.0	mg/Kg		02/23/18 08:51	02/23/18 16:01	5

Client Sample ID: AOC1-B100-W10-D0.5
Lab Sample ID: 440-203718-25
Date Collected: 02/19/18 10:05
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	17		2.0	0.99	mg/Kg		02/23/18 08:51	02/23/18 16:04	5

Client Sample ID: AOC1-B100-S5-D0.5
Lab Sample ID: 440-203718-28
Date Collected: 02/19/18 10:20
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	11		2.0	1.0	mg/Kg		02/23/18 08:51	02/23/18 16:06	5

Client Sample ID: AOC1-B100-S10-D0.5
Lab Sample ID: 440-203718-31
Date Collected: 02/19/18 10:35
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	26		2.0	0.99	mg/Kg		02/23/18 08:51	02/23/18 16:08	5

Client Sample ID: AOC1-B100-E5-D0.5
Lab Sample ID: 440-203718-34
Date Collected: 02/19/18 10:50
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	21		2.0	1.0	mg/Kg		02/23/18 08:51	02/23/18 16:11	5

Client Sample ID: AOC1-B100-E10-D0.5
Lab Sample ID: 440-203718-37
Date Collected: 02/19/18 11:05
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	29		2.0	0.99	mg/Kg		02/23/18 08:51	02/23/18 16:13	5

Client Sample ID: AOC1-B77-NW5-D0.5
Lab Sample ID: 440-203718-40
Date Collected: 02/19/18 11:20
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:15	5

Client Sample ID: AOC1-B77-NW5-D1.5
Lab Sample ID: 440-203718-41
Date Collected: 02/19/18 11:22
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:18	5

Client Sample ID: AOC1-B77-NW5-D2.5
Lab Sample ID: 440-203718-42
Date Collected: 02/19/18 11:24
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:26	5

Client Sample ID: AOC1-B77-NW10-D0.5
Lab Sample ID: 440-203718-43
Date Collected: 02/19/18 11:26
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:28	5

Client Sample ID: AOC1-B77-NW10-D1.5
Lab Sample ID: 440-203718-44
Date Collected: 02/19/18 11:28
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:31	5

Client Sample ID: AOC1-B77-NW10-D2.5
Lab Sample ID: 440-203718-45
Date Collected: 02/19/18 11:30
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:33	5

Client Sample ID: AOC1-B77-SW5-D0.5 — **Lab Sample ID: 440-203718-46**
Date Collected: 02/19/18 11:32 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 16:35	5

Client Sample ID: AOC1-B77-SW5-D1.5 — **Lab Sample ID: 440-203718-47**
Date Collected: 02/19/18 11:34 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:17	5

Client Sample ID: AOC1-B77-SW5-D2.5 — **Lab Sample ID: 440-203718-48**
Date Collected: 02/19/18 11:36 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:20	5

Client Sample ID: AOC1-B77-SW10-D0.5 — **Lab Sample ID: 440-203718-49**
Date Collected: 02/19/18 11:38 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:22	5

Client Sample ID: AOC1-B77-SW10-D1.5 — **Lab Sample ID: 440-203718-50**
Date Collected: 02/19/18 11:40 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:24	5

Client Sample ID: AOC1-B77-SW10-D2.5 — **Lab Sample ID: 440-203718-51**
Date Collected: 02/19/18 11:42 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.2		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:27	5

Client Sample ID: AOC1-B77-SE5-D0.5 — **Lab Sample ID: 440-203718-52**
Date Collected: 02/19/18 11:44 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:29	5

Client Sample ID: AOC1-B77-SE5-D1.5 — **Lab Sample ID: 440-203718-53**
Date Collected: 02/19/18 11:46 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:31	5

Client Sample ID: AOC1-B77-SE5-D2.5 — **Lab Sample ID: 440-203718-54**
Date Collected: 02/19/18 11:48 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:38	5

Client Sample ID: AOC1-B77-SE10-D0.5 — **Lab Sample ID: 440-203718-55**
Date Collected: 02/19/18 11:50 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	32		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:41	5

Client Sample ID: AOC1-B77-SE10-D1.5 — **Lab Sample ID: 440-203718-56**
Date Collected: 02/19/18 11:52 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:43	5

Client Sample ID: AOC1-B77-SE10-D2.5 — **Lab Sample ID: 440-203718-57**
Date Collected: 02/19/18 11:54 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:45	5

Client Sample ID: AOC1-B78-NW5-D0.5 — **Lab Sample ID: 440-203718-58**
Date Collected: 02/19/18 11:56 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:48	5

Client Sample ID: AOC1-B78-NW5-D1.5 — **Lab Sample ID: 440-203718-59**
Date Collected: 02/19/18 11:58 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:50	5

Client Sample ID: AOC1-B77-NW5-D2.5-D — **Lab Sample ID: 440-203718-61**
Date Collected: 02/19/18 11:24 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:01	5

Client Sample ID: AOC1-B78-NW10-D0.5-D — **Lab Sample ID: 440-203718-62**
Date Collected: 02/19/18 12:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	22		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 22:09	5

Client Sample ID: AOC1-B78-SW10-D0.5-D — **Lab Sample ID: 440-203718-63**
Date Collected: 02/19/18 12:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:09	5

Client Sample ID: AOC1-B78-SE5-D1.5-D — **Lab Sample ID: 440-203718-64**
Date Collected: 02/19/18 12:22 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:30	5

Client Sample ID: AOC1-B78-NW10-D0.5 — **Lab Sample ID: 440-203718-65**
Date Collected: 02/19/18 12:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:53	5

Client Sample ID: AOC1-B78-NW10-D1.5 — **Lab Sample ID: 440-203718-66**
Date Collected: 02/19/18 12:04 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:55	5

Client Sample ID: AOC1-B78-SW5-D0.5 — **Lab Sample ID: 440-203718-68**
Date Collected: 02/19/18 12:08 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 21:57	5

Client Sample ID: AOC1-B78-SW5-D1.5 — **Lab Sample ID: 440-203718-69**
Date Collected: 02/19/18 12:10 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.6		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 22:00	5

Client Sample ID: AOC1-B81-SW5-D1.5 — **Lab Sample ID: 440-203718-71**
Date Collected: 02/19/18 12:46 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 22:07	5

Client Sample ID: AOC1-B81-NW5-D1.5-D — **Lab Sample ID: 440-203718-72**
Date Collected: 02/19/18 12:26 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:21	5

Client Sample ID: AOC1-B78-SW10-D0.5 — **Lab Sample ID: 440-203718-73**
Date Collected: 02/19/18 12:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:23	5

Client Sample ID: AOC1-B78-SW10-D1.5 — **Lab Sample ID: 440-203718-74**
Date Collected: 02/19/18 12:16 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:54	5

Client Sample ID: AOC1-B78-SE5-D0.5 — **Lab Sample ID: 440-203718-76**
Date Collected: 02/19/18 12:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	31		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:26	5

Client Sample ID: AOC1-B78-SE5-D1.5 — **Lab Sample ID: 440-203718-77**
Date Collected: 02/19/18 12:22 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:48	5

Client Sample ID: AOC1-B81-NW5-D0.5 — **Lab Sample ID: 440-203718-79**
Date Collected: 02/19/18 12:26 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:50	5

Client Sample ID: AOC1-B81-NW5-D1.5 — **Lab Sample ID: 440-203718-80**
Date Collected: 02/19/18 12:28 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.4		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:53	5

Client Sample ID: AOC1-B81-NW5-D2.5 — **Lab Sample ID: 440-203718-81**
Date Collected: 02/19/18 12:30 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:55	5

Client Sample ID: AOC1-B81-NE5-D0.5 — **Lab Sample ID: 440-203718-82**
Date Collected: 02/19/18 12:32 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:57	5

Client Sample ID: AOC1-B81-NE5-D1.5 — **Lab Sample ID: 440-203718-83**
Date Collected: 02/19/18 12:34 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:00	5

Client Sample ID: AOC1-B81-NE5-D2.5 — **Lab Sample ID: 440-203718-84**
Date Collected: 02/19/18 12:36 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:02	5

Client Sample ID: AOC1-B81-NE10-D0.5 — **Lab Sample ID: 440-203718-85**
Date Collected: 02/19/18 12:38 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:04	5

Client Sample ID: AOC1-B81-NE10-D1.5 — **Lab Sample ID: 440-203718-86**
Date Collected: 02/19/18 12:40 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:07	5

Client Sample ID: AOC1-B81-NE10-D2.5 — **Lab Sample ID: 440-203718-87**
Date Collected: 02/19/18 12:42 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.9		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:09	5

Client Sample ID: AOC1-B81-SW5-D0.5 — **Lab Sample ID: 440-203718-88**
Date Collected: 02/19/18 12:44 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:18	5

Client Sample ID: AOC1-B81-SW5-D1.5 — **Lab Sample ID: 440-203718-89**
Date Collected: 02/19/18 12:46 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:20	5

Client Sample ID: AOC1-B81-SW5-D2.5 — **Lab Sample ID: 440-203718-90**
Date Collected: 02/19/18 12:48 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:22	5

Client Sample ID: AOC1-B81-SW10-D0.5 — **Lab Sample ID: 440-203718-91**
Date Collected: 02/19/18 12:50 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	33		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:25	5

Client Sample ID: AOC1-B81-SW10-D1.5 — **Lab Sample ID: 440-203718-92**
Date Collected: 02/19/18 12:52 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 12:27	5

Client Sample ID: AOC1-B81-SW10-D2.5 — **Lab Sample ID: 440-203718-93**
Date Collected: 02/19/18 12:54 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:05	5

Client Sample ID: AOC1-B81-SE5-D0.5 — **Lab Sample ID: 440-203718-94**
Date Collected: 02/19/18 12:56 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:07	5

Client Sample ID: AOC1-B81-SE5-D1.5 — **Lab Sample ID: 440-203718-95**
Date Collected: 02/19/18 12:58 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:10	5

Client Sample ID: AOC1-B81-SE5-D2.5 — **Lab Sample ID: 440-203718-96**
Date Collected: 02/19/18 13:00 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.1		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:17	5

Client Sample ID: AOC1-B81-SE10-D0.5 — **Lab Sample ID: 440-203718-97**
Date Collected: 02/19/18 13:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.8		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:19	5

Client Sample ID: AOC1-B81-SE10-D1.5 — **Lab Sample ID: 440-203718-98**
Date Collected: 02/19/18 13:04 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.4		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:22	5

Client Sample ID: AOC1-B81-SE10-D2.5 — **Lab Sample ID: 440-203718-99**
Date Collected: 02/19/18 13:06 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:24	5

Client Sample ID: AOC1-B112-N5-D0.5
Lab Sample ID: 440-203718-100
Date Collected: 02/19/18 13:08
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:26	5

Client Sample ID: AOC1-B112-N10-D0.5
Lab Sample ID: 440-203718-103
Date Collected: 02/19/18 13:14
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:29	5

Client Sample ID: AOC1-B112-W5-D0.5
Lab Sample ID: 440-203718-106
Date Collected: 02/19/18 13:20
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.2		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:31	5

Client Sample ID: AOC1-B108-S10-D0.5
Lab Sample ID: 440-203718-109
Date Collected: 02/19/18 13:44
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.6		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:33	5
Lead	7.4		2.0	1.0	mg/Kg		02/23/18 11:08	02/26/18 13:33	5

Client Sample ID: AOC1-B6-N5-D0.5
Lab Sample ID: 440-203718-112
Date Collected: 02/19/18 13:36
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	16		2.0	0.99	mg/Kg		02/23/18 11:08	02/26/18 13:36	5

Client Sample ID: AOC1-B6-N10-D0.5
Lab Sample ID: 440-203718-115
Date Collected: 02/19/18 13:30
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.3		2.0	0.99	mg/Kg		02/23/18 12:46	02/26/18 17:21	5

Client Sample ID: AOC1-B6-W5-D0.5
Lab Sample ID: 440-203718-118
Date Collected: 02/19/18 13:40
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	7.5		2.0	0.99	mg/Kg		02/23/18 12:46	02/26/18 17:23	5

Client Sample ID: AOC1-B6-W10-D0.5 — **Lab Sample ID: 440-203718-121**
Date Collected: 02/19/18 13:46 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	5.3		2.0	1.0	mg/Kg		02/23/18 12:46	02/26/18 17:26	5

Client Sample ID: AOC1-B6-S5-D0.5 — **Lab Sample ID: 440-203718-124**
Date Collected: 02/19/18 13:52 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.0		2.0	0.99	mg/Kg		02/23/18 11:08	02/26/18 13:38	5

Client Sample ID: AOC1-B6-S10-D0.5 — **Lab Sample ID: 440-203718-127**
Date Collected: 02/19/18 13:57 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	9.6		2.0	1.0	mg/Kg		02/23/18 11:08	02/26/18 13:45	5

Client Sample ID: AOC1-B8-S10-D0.5 — **Lab Sample ID: 440-203718-130**
Date Collected: 02/19/18 14:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:47	5

Client Sample ID: AOC1-B112-W10-D0.5 — **Lab Sample ID: 440-203718-133**
Date Collected: 02/19/18 13:26 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.8		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:50	5

Client Sample ID: AOC1-B112-W5-D0.5-D — **Lab Sample ID: 440-203718-136**
Date Collected: 02/19/18 13:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 12:53	5

Client Sample ID: AOC1-B108-E5-D0.5 — **Lab Sample ID: 440-203718-137**
Date Collected: 02/19/18 13:44 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.1		3.0	1.5	mg/Kg		02/23/18 12:46	02/26/18 17:28	5
Lead	6.6		2.0	0.99	mg/Kg		02/23/18 12:46	02/26/18 17:28	5

Client Sample Results

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B108-S5-D0.5

Lab Sample ID: 440-203718-140

Date Collected: 02/19/18 13:32
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:52	5
Lead	6.0		2.0	0.99	mg/Kg		02/23/18 11:08	02/26/18 13:52	5

Client Sample ID: AOC1-B108-S10-D0.5-D

Lab Sample ID: 440-203718-143

Date Collected: 02/19/18 13:38
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		02/23/18 12:46	02/26/18 17:04	5
Lead	5.3		2.0	0.99	mg/Kg		02/23/18 12:46	02/26/18 17:04	5

Client Sample ID: AOC1-B8-S10-D0.5-D

Lab Sample ID: 440-203718-144

Date Collected: 02/19/18 14:15
Matrix: Solid
Date Received: 02/19/18 17:20

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	17		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 13:57	5

Method Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: F 021918
Date Collected: 02/19/18 07:30
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	459265	02/22/18 13:51	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			459536	02/23/18 12:02	B1H	TAL IRV

Client Sample ID: AOC1-B22-N5-D0.5
Date Collected: 02/19/18 08:20
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:43	K1E	TAL IRV

Client Sample ID: AOC1-B22-N10-D0.5
Date Collected: 02/19/18 08:35
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:46	K1E	TAL IRV

Client Sample ID: AOC1-B22-E5-D0.5
Date Collected: 02/19/18 08:50
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459538	02/26/18 09:11	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:33	B1H	TAL IRV

Client Sample ID: AOC1-B22-N10-D0.5-D
Date Collected: 02/19/18 08:35
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:32	K1E	TAL IRV

Client Sample ID: AOC1-B100-E5-D0.5-D
Date Collected: 02/19/18 10:50
Date Received: 02/19/18 17:20

Lab Sample ID: 440-203718-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:38	K1E	TAL IRV

Client Sample ID: AOC1-B22-S5-D0.5 — Lab Sample ID: 440-203718-13

Date Collected: 02/19/18 09:05 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:48	K1E	TAL IRV

Client Sample ID: AOC1-B22-S10-D0.5 — Lab Sample ID: 440-203718-16

Date Collected: 02/19/18 09:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:56	K1E	TAL IRV

Client Sample ID: AOC1-B100-N5-D0.5 — Lab Sample ID: 440-203718-19

Date Collected: 02/19/18 09:35 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 15:59	K1E	TAL IRV

Client Sample ID: AOC1-B100-W5-D0.5 — Lab Sample ID: 440-203718-22

Date Collected: 02/19/18 09:50 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:01	K1E	TAL IRV

Client Sample ID: AOC1-B100-W10-D0.5 — Lab Sample ID: 440-203718-25

Date Collected: 02/19/18 10:05 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:04	K1E	TAL IRV

Client Sample ID: AOC1-B100-S5-D0.5 — Lab Sample ID: 440-203718-28

Date Collected: 02/19/18 10:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:06	K1E	TAL IRV

Client Sample ID: AOC1-B100-S10-D0.5 — Lab Sample ID: 440-203718-31

Date Collected: 02/19/18 10:35 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:08	K1E	TAL IRV

Client Sample ID: AOC1-B100-E5-D0.5 — Lab Sample ID: 440-203718-34

Date Collected: 02/19/18 10:50 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:11	K1E	TAL IRV

Client Sample ID: AOC1-B100-E10-D0.5 — Lab Sample ID: 440-203718-37

Date Collected: 02/19/18 11:05 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:13	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW5-D0.5 — Lab Sample ID: 440-203718-40

Date Collected: 02/19/18 11:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:15	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW5-D1.5 — Lab Sample ID: 440-203718-41

Date Collected: 02/19/18 11:22 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:18	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW5-D2.5 — Lab Sample ID: 440-203718-42

Date Collected: 02/19/18 11:24 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:26	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B77-NW10-D0.5
Lab Sample ID: 440-203718-43
Date Collected: 02/19/18 11:26
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:28	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW10-D1.5
Lab Sample ID: 440-203718-44
Date Collected: 02/19/18 11:28
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:31	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW10-D2.5
Lab Sample ID: 440-203718-45
Date Collected: 02/19/18 11:30
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:33	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW5-D0.5
Lab Sample ID: 440-203718-46
Date Collected: 02/19/18 11:32
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459452	02/23/18 08:51	DT	TAL IRV
Total/NA	Analysis	6010B		5			459695	02/23/18 16:35	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW5-D1.5
Lab Sample ID: 440-203718-47
Date Collected: 02/19/18 11:34
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:17	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW5-D2.5
Lab Sample ID: 440-203718-48
Date Collected: 02/19/18 11:36
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:20	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW10-D0.5

Lab Sample ID: 440-203718-49

Date Collected: 02/19/18 11:38

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:22	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW10-D1.5

Lab Sample ID: 440-203718-50

Date Collected: 02/19/18 11:40

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:24	K1E	TAL IRV

Client Sample ID: AOC1-B77-SW10-D2.5

Lab Sample ID: 440-203718-51

Date Collected: 02/19/18 11:42

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:27	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE5-D0.5

Lab Sample ID: 440-203718-52

Date Collected: 02/19/18 11:44

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:29	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE5-D1.5

Lab Sample ID: 440-203718-53

Date Collected: 02/19/18 11:46

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:31	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE5-D2.5

Lab Sample ID: 440-203718-54

Date Collected: 02/19/18 11:48

Matrix: Solid

Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:38	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE10-D0.5
Lab Sample ID: 440-203718-55
Date Collected: 02/19/18 11:50
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:41	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE10-D1.5
Lab Sample ID: 440-203718-56
Date Collected: 02/19/18 11:52
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:43	K1E	TAL IRV

Client Sample ID: AOC1-B77-SE10-D2.5
Lab Sample ID: 440-203718-57
Date Collected: 02/19/18 11:54
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:45	K1E	TAL IRV

Client Sample ID: AOC1-B78-NW5-D0.5
Lab Sample ID: 440-203718-58
Date Collected: 02/19/18 11:56
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:48	K1E	TAL IRV

Client Sample ID: AOC1-B78-NW5-D1.5
Lab Sample ID: 440-203718-59
Date Collected: 02/19/18 11:58
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:50	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW5-D2.5-D
Lab Sample ID: 440-203718-61
Date Collected: 02/19/18 11:24
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:01	K1E	TAL IRV

Client Sample ID: AOC1-B78-NW10-D0.5-D — Lab Sample ID: 440-203718-62

Date Collected: 02/19/18 12:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 22:09	K1E	TAL IRV

Client Sample ID: AOC1-B78-SW10-D0.5-D — Lab Sample ID: 440-203718-63

Date Collected: 02/19/18 12:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:09	B1H	TAL IRV

Client Sample ID: AOC1-B78-SE5-D1.5-D — Lab Sample ID: 440-203718-64

Date Collected: 02/19/18 12:22 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:30	B1H	TAL IRV

Client Sample ID: AOC1-B78-NW10-D0.5 — Lab Sample ID: 440-203718-65

Date Collected: 02/19/18 12:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:53	K1E	TAL IRV

Client Sample ID: AOC1-B78-NW10-D1.5 — Lab Sample ID: 440-203718-66

Date Collected: 02/19/18 12:04 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:55	K1E	TAL IRV

Client Sample ID: AOC1-B78-SW5-D0.5 — Lab Sample ID: 440-203718-68

Date Collected: 02/19/18 12:08 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 21:57	K1E	TAL IRV

Client Sample ID: AOC1-B78-SW5-D1.5 — Lab Sample ID: 440-203718-69

Date Collected: 02/19/18 12:10 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 22:00	K1E	TAL IRV

Client Sample ID: AOC1-B81-SW5-D1.5 — Lab Sample ID: 440-203718-71

Date Collected: 02/19/18 12:46 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459453	02/23/18 08:53	DT	TAL IRV
Total/NA	Analysis	6010B		5			459698	02/23/18 22:07	K1E	TAL IRV

Client Sample ID: AOC1-B81-NW5-D1.5-D — Lab Sample ID: 440-203718-72

Date Collected: 02/19/18 12:26 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:21	B1H	TAL IRV

Client Sample ID: AOC1-B78-SW10-D0.5 — Lab Sample ID: 440-203718-73

Date Collected: 02/19/18 12:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:23	B1H	TAL IRV

Client Sample ID: AOC1-B78-SW10-D1.5 — Lab Sample ID: 440-203718-74

Date Collected: 02/19/18 12:16 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:54	B1H	TAL IRV

Client Sample ID: AOC1-B78-SE5-D0.5 — Lab Sample ID: 440-203718-76

Date Collected: 02/19/18 12:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:26	B1H	TAL IRV

Client Sample ID: AOC1-B78-SE5-D1.5

Lab Sample ID: 440-203718-77
Date Collected: 02/19/18 12:22
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:48	B1H	TAL IRV

Client Sample ID: AOC1-B81-NW5-D0.5

Lab Sample ID: 440-203718-79
Date Collected: 02/19/18 12:26
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:50	B1H	TAL IRV

Client Sample ID: AOC1-B81-NW5-D1.5

Lab Sample ID: 440-203718-80
Date Collected: 02/19/18 12:28
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:53	B1H	TAL IRV

Client Sample ID: AOC1-B81-NW5-D2.5

Lab Sample ID: 440-203718-81
Date Collected: 02/19/18 12:30
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:55	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE5-D0.5

Lab Sample ID: 440-203718-82
Date Collected: 02/19/18 12:32
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 11:57	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE5-D1.5

Lab Sample ID: 440-203718-83
Date Collected: 02/19/18 12:34
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:00	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE5-D2.5
Lab Sample ID: 440-203718-84
Date Collected: 02/19/18 12:36
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:02	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE10-D0.5
Lab Sample ID: 440-203718-85
Date Collected: 02/19/18 12:38
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:04	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE10-D1.5
Lab Sample ID: 440-203718-86
Date Collected: 02/19/18 12:40
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:07	B1H	TAL IRV

Client Sample ID: AOC1-B81-NE10-D2.5
Lab Sample ID: 440-203718-87
Date Collected: 02/19/18 12:42
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:09	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW5-D0.5
Lab Sample ID: 440-203718-88
Date Collected: 02/19/18 12:44
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:18	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW5-D1.5
Lab Sample ID: 440-203718-89
Date Collected: 02/19/18 12:46
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:20	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW5-D2.5 — Lab Sample ID: 440-203718-90

Date Collected: 02/19/18 12:48 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:22	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW10-D0.5 — Lab Sample ID: 440-203718-91

Date Collected: 02/19/18 12:50 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:25	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW10-D1.5 — Lab Sample ID: 440-203718-92

Date Collected: 02/19/18 12:52 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459485	02/23/18 11:04	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459945	02/26/18 12:27	B1H	TAL IRV

Client Sample ID: AOC1-B81-SW10-D2.5 — Lab Sample ID: 440-203718-93

Date Collected: 02/19/18 12:54 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:05	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE5-D0.5 — Lab Sample ID: 440-203718-94

Date Collected: 02/19/18 12:56 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:07	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE5-D1.5 — Lab Sample ID: 440-203718-95

Date Collected: 02/19/18 12:58 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:10	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE5-D2.5 — Lab Sample ID: 440-203718-96

Date Collected: 02/19/18 13:00 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:17	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE10-D0.5 — Lab Sample ID: 440-203718-97

Date Collected: 02/19/18 13:02 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:19	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE10-D1.5 — Lab Sample ID: 440-203718-98

Date Collected: 02/19/18 13:04 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:22	B1H	TAL IRV

Client Sample ID: AOC1-B81-SE10-D2.5 — Lab Sample ID: 440-203718-99

Date Collected: 02/19/18 13:06 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:24	B1H	TAL IRV

Client Sample ID: AOC1-B112-N5-D0.5 — Lab Sample ID: 440-203718-100

Date Collected: 02/19/18 13:08 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:26	B1H	TAL IRV

Client Sample ID: AOC1-B112-N10-D0.5 — Lab Sample ID: 440-203718-103

Date Collected: 02/19/18 13:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:29	B1H	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B112-W5-D0.5
Lab Sample ID: 440-203718-106
Date Collected: 02/19/18 13:20
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:31	B1H	TAL IRV

Client Sample ID: AOC1-B108-S10-D0.5
Lab Sample ID: 440-203718-109
Date Collected: 02/19/18 13:44
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:33	B1H	TAL IRV

Client Sample ID: AOC1-B6-N5-D0.5
Lab Sample ID: 440-203718-112
Date Collected: 02/19/18 13:36
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:36	B1H	TAL IRV

Client Sample ID: AOC1-B6-N10-D0.5
Lab Sample ID: 440-203718-115
Date Collected: 02/19/18 13:30
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459538	02/23/18 12:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:21	B1H	TAL IRV

Client Sample ID: AOC1-B6-W5-D0.5
Lab Sample ID: 440-203718-118
Date Collected: 02/19/18 13:40
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459538	02/23/18 12:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:23	B1H	TAL IRV

Client Sample ID: AOC1-B6-W10-D0.5
Lab Sample ID: 440-203718-121
Date Collected: 02/19/18 13:46
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459538	02/23/18 12:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:26	B1H	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B6-S5-D0.5 — Lab Sample ID: 440-203718-124

Date Collected: 02/19/18 13:52 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:38	B1H	TAL IRV

Client Sample ID: AOC1-B6-S10-D0.5 — Lab Sample ID: 440-203718-127

Date Collected: 02/19/18 13:57 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:45	B1H	TAL IRV

Client Sample ID: AOC1-B8-S10-D0.5 — Lab Sample ID: 440-203718-130

Date Collected: 02/19/18 14:14 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:47	B1H	TAL IRV

Client Sample ID: AOC1-B112-W10-D0.5 — Lab Sample ID: 440-203718-133

Date Collected: 02/19/18 13:26 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:50	B1H	TAL IRV

Client Sample ID: AOC1-B112-W5-D0.5-D — Lab Sample ID: 440-203718-136

Date Collected: 02/19/18 13:20 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 12:53	B1H	TAL IRV

Client Sample ID: AOC1-B108-E5-D0.5 — Lab Sample ID: 440-203718-137

Date Collected: 02/19/18 13:44 — **Matrix: Solid**
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459538	02/23/18 12:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:28	B1H	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Client Sample ID: AOC1-B108-S5-D0.5

Lab Sample ID: 440-203718-140

Date Collected: 02/19/18 13:32
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:52	B1H	TAL IRV

Client Sample ID: AOC1-B108-S10-D0.5-D

Lab Sample ID: 440-203718-143

Date Collected: 02/19/18 13:38
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	459538	02/23/18 12:46	DT	TAL IRV
Total/NA	Analysis	6010B		5			460039	02/26/18 17:04	B1H	TAL IRV

Client Sample ID: AOC1-B8-S10-D0.5-D

Lab Sample ID: 440-203718-144

Date Collected: 02/19/18 14:15
Matrix: Solid
Date Received: 02/19/18 17:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	459487	02/23/18 11:08	CDH	TAL IRV
Total/NA	Analysis	6010B		5			459958	02/26/18 13:57	B1H	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-459452/1-A ^5
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459452

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/23/18 08:51	02/23/18 15:27	5
Lead	ND		2.0	0.99	mg/Kg		02/23/18 08:51	02/23/18 15:27	5

Lab Sample ID: LCS 440-459452/2-A ^5
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 459452

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	52.8		mg/Kg		106	80 - 120
Lead	49.8	52.9		mg/Kg		106	80 - 120

Lab Sample ID: 440-203718-11 MS
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: AOC1-B22-N10-D0.5-D
Prep Type: Total/NA
Prep Batch: 459452

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	6.9		49.5	57.3		mg/Kg		102	75 - 125

Lab Sample ID: 440-203718-11 MSD
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: AOC1-B22-N10-D0.5-D
Prep Type: Total/NA
Prep Batch: 459452

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	6.9		50.0	59.2		mg/Kg		105	75 - 125	3	20

Lab Sample ID: 440-203718-12 MS
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: AOC1-B100-E5-D0.5-D
Prep Type: Total/NA
Prep Batch: 459452

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	13		49.5	62.5		mg/Kg		100	75 - 125

Lab Sample ID: 440-203718-12 MSD
Matrix: Solid
Analysis Batch: 459695

Client Sample ID: AOC1-B100-E5-D0.5-D
Prep Type: Total/NA
Prep Batch: 459452

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	13		49.3	62.9		mg/Kg		101	75 - 125	1	20

Lab Sample ID: MB 440-459453/1-A ^5
Matrix: Solid
Analysis Batch: 459698

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 459453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/23/18 08:53	02/23/18 20:56	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: LCS 440-459453/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459698 — **Prep Batch: 459453**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			49.8	48.6		mg/Kg		98	80 - 120		

Lab Sample ID: 440-203718-61 MS — **Client Sample ID: AOC1-B77-NW5-D2.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459698 — **Prep Batch: 459453**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	9.4		49.3	53.8		mg/Kg		90	75 - 125		

Lab Sample ID: 440-203718-61 MSD — **Client Sample ID: AOC1-B77-NW5-D2.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459698 — **Prep Batch: 459453**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	9.4		49.8	53.7		mg/Kg		89	75 - 125	0	20

Lab Sample ID: 440-203718-62 MS — **Client Sample ID: AOC1-B78-NW10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459698 — **Prep Batch: 459453**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	22		49.5	68.3		mg/Kg		94	75 - 125		

Lab Sample ID: 440-203718-62 MSD — **Client Sample ID: AOC1-B78-NW10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459698 — **Prep Batch: 459453**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	22		49.5	63.5		mg/Kg		84	75 - 125	7	20

Lab Sample ID: MB 440-459485/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/23/18 11:04	02/26/18 11:05	5

Lab Sample ID: LCS 440-459485/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic			49.3	47.5		mg/Kg		96	80 - 120		

Lab Sample ID: 440-203718-63 MS — **Client Sample ID: AOC1-B78-SW10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits		
Arsenic	7.3		50.0	54.3		mg/Kg		94	75 - 125		

Lab Sample ID: 440-203718-63 MSD — **Client Sample ID: AOC1-B78-SW10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.3		49.8	54.3		mg/Kg		94	75 - 125	0	20

Lab Sample ID: 440-203718-64 MS — **Client Sample ID: AOC1-B78-SE5-D1.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.6		49.5	48.9		mg/Kg		82	75 - 125

Lab Sample ID: 440-203718-64 MSD — **Client Sample ID: AOC1-B78-SE5-D1.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459945 — **Prep Batch: 459485**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.6		49.8	50.7		mg/Kg		85	75 - 125	4	20

Lab Sample ID: MB 440-459487/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/23/18 11:08	02/26/18 12:49	5
Lead	ND		2.0	0.99	mg/Kg		02/23/18 11:08	02/26/18 12:49	5

Lab Sample ID: LCS 440-459487/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	48.3		mg/Kg		97	80 - 120
Lead	49.8	48.8		mg/Kg		98	80 - 120

Lab Sample ID: 440-203718-136 MS — **Client Sample ID: AOC1-B112-W5-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.4		49.3	54.9		mg/Kg		94	75 - 125

Lab Sample ID: 440-203718-136 MSD — **Client Sample ID: AOC1-B112-W5-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.4		49.8	57.0		mg/Kg		98	75 - 125	4	20

Lab Sample ID: 440-203718-144 MS — **Client Sample ID: AOC1-B8-S10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	17		49.8	66.4		mg/Kg		99	75 - 125

QC Sample Results

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Lab Sample ID: 440-203718-144 MSD — **Client Sample ID: AOC1-B8-S10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 459958 — **Prep Batch: 459487**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	17		49.5	62.6		mg/Kg		92	75 - 125	6	20

Lab Sample ID: MB 440-459538/1-A ^5 — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 460039 — **Prep Batch: 459538**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/23/18 12:46	02/26/18 16:59	5
Lead	ND		2.0	0.99	mg/Kg		02/23/18 12:46	02/26/18 16:59	5

Lab Sample ID: LCS 440-459538/2-A ^5 — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 460039 — **Prep Batch: 459538**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	45.1		mg/Kg		91	80 - 120
Lead	49.8	45.0		mg/Kg		90	80 - 120

Lab Sample ID: 440-203718-143 MS — **Client Sample ID: AOC1-B108-S10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 460039 — **Prep Batch: 459538**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.8		49.5	53.4		mg/Kg		96	75 - 125
Lead	5.3		49.5	50.1		mg/Kg		91	75 - 125

Lab Sample ID: 440-203718-143 MSD — **Client Sample ID: AOC1-B108-S10-D0.5-D**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 460039 — **Prep Batch: 459538**

Analyte	Sample Result	Sample Qualifier	Spike Added	FD Result	FD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.8		49.8	50.1		mg/Kg		89	75 - 125	6	20
Lead	5.3		49.8	47.7		mg/Kg		85	75 - 125	5	20

Lab Sample ID: MB 440-459265/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459536 — **Prep Batch: 459265**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		02/22/18 13:51	02/23/18 11:57	1
Lead	ND		0.0050	0.0038	mg/L		02/22/18 13:51	02/23/18 11:57	1

Lab Sample ID: LCS 440-459265/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 459536 — **Prep Batch: 459265**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.03		mg/L		103	80 - 120
Lead	1.00	1.03		mg/L		103	80 - 120

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-203718-1 MS
Matrix: Water
Analysis Batch: 459536

Client Sample ID: F 021918
Prep Type: Total Recoverable
Prep Batch: 459265

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.01		mg/L		101	75 - 125
Lead	ND		1.00	1.00		mg/L		100	75 - 125

Lab Sample ID: 440-203718-1 MSD
Matrix: Water
Analysis Batch: 459536

Client Sample ID: F 021918
Prep Type: Total Recoverable
Prep Batch: 459265

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.05		mg/L		105	75 - 125	4	20
Lead	ND		1.00	1.04		mg/L		104	75 - 125	4	20

Metals

Prep Batch: 459265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-1	F 021918	Total Recoverable	Water	3005A	
MB 440-459265/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-459265/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-203718-1 MS	F 021918	Total Recoverable	Water	3005A	
440-203718-1 MSD	F 021918	Total Recoverable	Water	3005A	

Prep Batch: 459452

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-2	AOC1-B22-N5-D0.5	Total/NA	Solid	3050B	
440-203718-5	AOC1-B22-N10-D0.5	Total/NA	Solid	3050B	
440-203718-11	AOC1-B22-N10-D0.5-D	Total/NA	Solid	3050B	
440-203718-12	AOC1-B100-E5-D0.5-D	Total/NA	Solid	3050B	
440-203718-13	AOC1-B22-S5-D0.5	Total/NA	Solid	3050B	
440-203718-16	AOC1-B22-S10-D0.5	Total/NA	Solid	3050B	
440-203718-19	AOC1-B100-N5-D0.5	Total/NA	Solid	3050B	
440-203718-22	AOC1-B100-W5-D0.5	Total/NA	Solid	3050B	
440-203718-25	AOC1-B100-W10-D0.5	Total/NA	Solid	3050B	
440-203718-28	AOC1-B100-S5-D0.5	Total/NA	Solid	3050B	
440-203718-31	AOC1-B100-S10-D0.5	Total/NA	Solid	3050B	
440-203718-34	AOC1-B100-E5-D0.5	Total/NA	Solid	3050B	
440-203718-37	AOC1-B100-E10-D0.5	Total/NA	Solid	3050B	
440-203718-40	AOC1-B77-NW5-D0.5	Total/NA	Solid	3050B	
440-203718-41	AOC1-B77-NW5-D1.5	Total/NA	Solid	3050B	
440-203718-42	AOC1-B77-NW5-D2.5	Total/NA	Solid	3050B	
440-203718-43	AOC1-B77-NW10-D0.5	Total/NA	Solid	3050B	
440-203718-44	AOC1-B77-NW10-D1.5	Total/NA	Solid	3050B	
440-203718-45	AOC1-B77-NW10-D2.5	Total/NA	Solid	3050B	
440-203718-46	AOC1-B77-SW5-D0.5	Total/NA	Solid	3050B	
MB 440-459452/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-459452/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-11 MS	AOC1-B22-N10-D0.5-D	Total/NA	Solid	3050B	
440-203718-11 MSD	AOC1-B22-N10-D0.5-D	Total/NA	Solid	3050B	
440-203718-12 MS	AOC1-B100-E5-D0.5-D	Total/NA	Solid	3050B	
440-203718-12 MSD	AOC1-B100-E5-D0.5-D	Total/NA	Solid	3050B	

Prep Batch: 459453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-47	AOC1-B77-SW5-D1.5	Total/NA	Solid	3050B	
440-203718-48	AOC1-B77-SW5-D2.5	Total/NA	Solid	3050B	
440-203718-49	AOC1-B77-SW10-D0.5	Total/NA	Solid	3050B	
440-203718-50	AOC1-B77-SW10-D1.5	Total/NA	Solid	3050B	
440-203718-51	AOC1-B77-SW10-D2.5	Total/NA	Solid	3050B	
440-203718-52	AOC1-B77-SE5-D0.5	Total/NA	Solid	3050B	
440-203718-53	AOC1-B77-SE5-D1.5	Total/NA	Solid	3050B	
440-203718-54	AOC1-B77-SE5-D2.5	Total/NA	Solid	3050B	
440-203718-55	AOC1-B77-SE10-D0.5	Total/NA	Solid	3050B	
440-203718-56	AOC1-B77-SE10-D1.5	Total/NA	Solid	3050B	
440-203718-57	AOC1-B77-SE10-D2.5	Total/NA	Solid	3050B	
440-203718-58	AOC1-B78-NW5-D0.5	Total/NA	Solid	3050B	
440-203718-59	AOC1-B78-NW5-D1.5	Total/NA	Solid	3050B	
440-203718-61	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 459453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-62	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	3050B	
440-203718-65	AOC1-B78-NW10-D0.5	Total/NA	Solid	3050B	
440-203718-66	AOC1-B78-NW10-D1.5	Total/NA	Solid	3050B	
440-203718-68	AOC1-B78-SW5-D0.5	Total/NA	Solid	3050B	
440-203718-69	AOC1-B78-SW5-D1.5	Total/NA	Solid	3050B	
440-203718-71	AOC1-B81-SW5-D1.5	Total/NA	Solid	3050B	
MB 440-459453/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-459453/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-61 MS	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	3050B	
440-203718-61 MSD	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	3050B	
440-203718-62 MS	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	3050B	
440-203718-62 MSD	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	3050B	

Prep Batch: 459485

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-63	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	3050B	
440-203718-64	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	3050B	
440-203718-72	AOC1-B81-NW5-D1.5-D	Total/NA	Solid	3050B	
440-203718-73	AOC1-B78-SW10-D0.5	Total/NA	Solid	3050B	
440-203718-76	AOC1-B78-SE5-D0.5	Total/NA	Solid	3050B	
440-203718-77	AOC1-B78-SE5-D1.5	Total/NA	Solid	3050B	
440-203718-79	AOC1-B81-NW5-D0.5	Total/NA	Solid	3050B	
440-203718-80	AOC1-B81-NW5-D1.5	Total/NA	Solid	3050B	
440-203718-81	AOC1-B81-NW5-D2.5	Total/NA	Solid	3050B	
440-203718-82	AOC1-B81-NE5-D0.5	Total/NA	Solid	3050B	
440-203718-83	AOC1-B81-NE5-D1.5	Total/NA	Solid	3050B	
440-203718-84	AOC1-B81-NE5-D2.5	Total/NA	Solid	3050B	
440-203718-85	AOC1-B81-NE10-D0.5	Total/NA	Solid	3050B	
440-203718-86	AOC1-B81-NE10-D1.5	Total/NA	Solid	3050B	
440-203718-87	AOC1-B81-NE10-D2.5	Total/NA	Solid	3050B	
440-203718-88	AOC1-B81-SW5-D0.5	Total/NA	Solid	3050B	
440-203718-89	AOC1-B81-SW5-D1.5	Total/NA	Solid	3050B	
440-203718-90	AOC1-B81-SW5-D2.5	Total/NA	Solid	3050B	
440-203718-91	AOC1-B81-SW10-D0.5	Total/NA	Solid	3050B	
440-203718-92	AOC1-B81-SW10-D1.5	Total/NA	Solid	3050B	
MB 440-459485/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-459485/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-63 MS	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	3050B	
440-203718-63 MSD	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	3050B	
440-203718-64 MS	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	3050B	
440-203718-64 MSD	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	3050B	

Prep Batch: 459487

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-74	AOC1-B78-SW10-D1.5	Total/NA	Solid	3050B	
440-203718-93	AOC1-B81-SW10-D2.5	Total/NA	Solid	3050B	
440-203718-94	AOC1-B81-SE5-D0.5	Total/NA	Solid	3050B	
440-203718-95	AOC1-B81-SE5-D1.5	Total/NA	Solid	3050B	
440-203718-96	AOC1-B81-SE5-D2.5	Total/NA	Solid	3050B	
440-203718-97	AOC1-B81-SE10-D0.5	Total/NA	Solid	3050B	
440-203718-98	AOC1-B81-SE10-D1.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 459487 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-99	AOC1-B81-SE10-D2.5	Total/NA	Solid	3050B	
440-203718-100	AOC1-B112-N5-D0.5	Total/NA	Solid	3050B	
440-203718-103	AOC1-B112-N10-D0.5	Total/NA	Solid	3050B	
440-203718-106	AOC1-B112-W5-D0.5	Total/NA	Solid	3050B	
440-203718-109	AOC1-B108-S10-D0.5	Total/NA	Solid	3050B	
440-203718-112	AOC1-B6-N5-D0.5	Total/NA	Solid	3050B	
440-203718-124	AOC1-B6-S5-D0.5	Total/NA	Solid	3050B	
440-203718-127	AOC1-B6-S10-D0.5	Total/NA	Solid	3050B	
440-203718-130	AOC1-B8-S10-D0.5	Total/NA	Solid	3050B	
440-203718-133	AOC1-B112-W10-D0.5	Total/NA	Solid	3050B	
440-203718-136	AOC1-B112-W5-D0.5-D	Total/NA	Solid	3050B	
440-203718-140	AOC1-B108-S5-D0.5	Total/NA	Solid	3050B	
440-203718-144	AOC1-B8-S10-D0.5-D	Total/NA	Solid	3050B	
MB 440-459487/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-459487/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-136 MS	AOC1-B112-W5-D0.5-D	Total/NA	Solid	3050B	
440-203718-136 MSD	AOC1-B112-W5-D0.5-D	Total/NA	Solid	3050B	
440-203718-144 MS	AOC1-B8-S10-D0.5-D	Total/NA	Solid	3050B	
440-203718-144 MSD	AOC1-B8-S10-D0.5-D	Total/NA	Solid	3050B	

Analysis Batch: 459536

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-1	F 021918	Total Recoverable	Water	6010B	459265
MB 440-459265/1-A	Method Blank	Total Recoverable	Water	6010B	459265
LCS 440-459265/2-A	Lab Control Sample	Total Recoverable	Water	6010B	459265
440-203718-1 MS	F 021918	Total Recoverable	Water	6010B	459265
440-203718-1 MSD	F 021918	Total Recoverable	Water	6010B	459265

Prep Batch: 459538

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-8	AOC1-B22-E5-D0.5	Total/NA	Solid	3050B	
440-203718-115	AOC1-B6-N10-D0.5	Total/NA	Solid	3050B	
440-203718-118	AOC1-B6-W5-D0.5	Total/NA	Solid	3050B	
440-203718-121	AOC1-B6-W10-D0.5	Total/NA	Solid	3050B	
440-203718-137	AOC1-B108-E5-D0.5	Total/NA	Solid	3050B	
440-203718-143	AOC1-B108-S10-D0.5-D	Total/NA	Solid	3050B	
MB 440-459538/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-459538/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203718-143 MS	AOC1-B108-S10-D0.5-D	Total/NA	Solid	3050B	
440-203718-143 MSD	AOC1-B108-S10-D0.5-D	Total/NA	Solid	3050B	

Analysis Batch: 459695

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-2	AOC1-B22-N5-D0.5	Total/NA	Solid	6010B	459452
440-203718-5	AOC1-B22-N10-D0.5	Total/NA	Solid	6010B	459452
440-203718-11	AOC1-B22-N10-D0.5-D	Total/NA	Solid	6010B	459452
440-203718-12	AOC1-B100-E5-D0.5-D	Total/NA	Solid	6010B	459452
440-203718-13	AOC1-B22-S5-D0.5	Total/NA	Solid	6010B	459452
440-203718-16	AOC1-B22-S10-D0.5	Total/NA	Solid	6010B	459452
440-203718-19	AOC1-B100-N5-D0.5	Total/NA	Solid	6010B	459452
440-203718-22	AOC1-B100-W5-D0.5	Total/NA	Solid	6010B	459452

Metals (Continued)

Analysis Batch: 459695 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-25	AOC1-B100-W10-D0.5	Total/NA	Solid	6010B	459452
440-203718-28	AOC1-B100-S5-D0.5	Total/NA	Solid	6010B	459452
440-203718-31	AOC1-B100-S10-D0.5	Total/NA	Solid	6010B	459452
440-203718-34	AOC1-B100-E5-D0.5	Total/NA	Solid	6010B	459452
440-203718-37	AOC1-B100-E10-D0.5	Total/NA	Solid	6010B	459452
440-203718-40	AOC1-B77-NW5-D0.5	Total/NA	Solid	6010B	459452
440-203718-41	AOC1-B77-NW5-D1.5	Total/NA	Solid	6010B	459452
440-203718-42	AOC1-B77-NW5-D2.5	Total/NA	Solid	6010B	459452
440-203718-43	AOC1-B77-NW10-D0.5	Total/NA	Solid	6010B	459452
440-203718-44	AOC1-B77-NW10-D1.5	Total/NA	Solid	6010B	459452
440-203718-45	AOC1-B77-NW10-D2.5	Total/NA	Solid	6010B	459452
440-203718-46	AOC1-B77-SW5-D0.5	Total/NA	Solid	6010B	459452
MB 440-459452/1-A ^5	Method Blank	Total/NA	Solid	6010B	459452
LCS 440-459452/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	459452
440-203718-11 MS	AOC1-B22-N10-D0.5-D	Total/NA	Solid	6010B	459452
440-203718-11 MSD	AOC1-B22-N10-D0.5-D	Total/NA	Solid	6010B	459452
440-203718-12 MS	AOC1-B100-E5-D0.5-D	Total/NA	Solid	6010B	459452
440-203718-12 MSD	AOC1-B100-E5-D0.5-D	Total/NA	Solid	6010B	459452

Analysis Batch: 459698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-47	AOC1-B77-SW5-D1.5	Total/NA	Solid	6010B	459453
440-203718-48	AOC1-B77-SW5-D2.5	Total/NA	Solid	6010B	459453
440-203718-49	AOC1-B77-SW10-D0.5	Total/NA	Solid	6010B	459453
440-203718-50	AOC1-B77-SW10-D1.5	Total/NA	Solid	6010B	459453
440-203718-51	AOC1-B77-SW10-D2.5	Total/NA	Solid	6010B	459453
440-203718-52	AOC1-B77-SE5-D0.5	Total/NA	Solid	6010B	459453
440-203718-53	AOC1-B77-SE5-D1.5	Total/NA	Solid	6010B	459453
440-203718-54	AOC1-B77-SE5-D2.5	Total/NA	Solid	6010B	459453
440-203718-55	AOC1-B77-SE10-D0.5	Total/NA	Solid	6010B	459453
440-203718-56	AOC1-B77-SE10-D1.5	Total/NA	Solid	6010B	459453
440-203718-57	AOC1-B77-SE10-D2.5	Total/NA	Solid	6010B	459453
440-203718-58	AOC1-B78-NW5-D0.5	Total/NA	Solid	6010B	459453
440-203718-59	AOC1-B78-NW5-D1.5	Total/NA	Solid	6010B	459453
440-203718-61	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	6010B	459453
440-203718-62	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	6010B	459453
440-203718-65	AOC1-B78-NW10-D0.5	Total/NA	Solid	6010B	459453
440-203718-66	AOC1-B78-NW10-D1.5	Total/NA	Solid	6010B	459453
440-203718-68	AOC1-B78-SW5-D0.5	Total/NA	Solid	6010B	459453
440-203718-69	AOC1-B78-SW5-D1.5	Total/NA	Solid	6010B	459453
440-203718-71	AOC1-B81-SW5-D1.5	Total/NA	Solid	6010B	459453
MB 440-459453/1-A ^5	Method Blank	Total/NA	Solid	6010B	459453
LCS 440-459453/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	459453
440-203718-61 MS	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	6010B	459453
440-203718-61 MSD	AOC1-B77-NW5-D2.5-D	Total/NA	Solid	6010B	459453
440-203718-62 MS	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	6010B	459453
440-203718-62 MSD	AOC1-B78-NW10-D0.5-D	Total/NA	Solid	6010B	459453

Analysis Batch: 459945

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-63	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	6010B	459485

Metals (Continued)

Analysis Batch: 459945 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-64	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	6010B	459485
440-203718-72	AOC1-B81-NW5-D1.5-D	Total/NA	Solid	6010B	459485
440-203718-73	AOC1-B78-SW10-D0.5	Total/NA	Solid	6010B	459485
440-203718-76	AOC1-B78-SE5-D0.5	Total/NA	Solid	6010B	459485
440-203718-77	AOC1-B78-SE5-D1.5	Total/NA	Solid	6010B	459485
440-203718-79	AOC1-B81-NW5-D0.5	Total/NA	Solid	6010B	459485
440-203718-80	AOC1-B81-NW5-D1.5	Total/NA	Solid	6010B	459485
440-203718-81	AOC1-B81-NW5-D2.5	Total/NA	Solid	6010B	459485
440-203718-82	AOC1-B81-NE5-D0.5	Total/NA	Solid	6010B	459485
440-203718-83	AOC1-B81-NE5-D1.5	Total/NA	Solid	6010B	459485
440-203718-84	AOC1-B81-NE5-D2.5	Total/NA	Solid	6010B	459485
440-203718-85	AOC1-B81-NE10-D0.5	Total/NA	Solid	6010B	459485
440-203718-86	AOC1-B81-NE10-D1.5	Total/NA	Solid	6010B	459485
440-203718-87	AOC1-B81-NE10-D2.5	Total/NA	Solid	6010B	459485
440-203718-88	AOC1-B81-SW5-D0.5	Total/NA	Solid	6010B	459485
440-203718-89	AOC1-B81-SW5-D1.5	Total/NA	Solid	6010B	459485
440-203718-90	AOC1-B81-SW5-D2.5	Total/NA	Solid	6010B	459485
440-203718-91	AOC1-B81-SW10-D0.5	Total/NA	Solid	6010B	459485
440-203718-92	AOC1-B81-SW10-D1.5	Total/NA	Solid	6010B	459485
MB 440-459485/1-A ^5	Method Blank	Total/NA	Solid	6010B	459485
LCS 440-459485/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	459485
440-203718-63 MS	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	6010B	459485
440-203718-63 MSD	AOC1-B78-SW10-D0.5-D	Total/NA	Solid	6010B	459485
440-203718-64 MS	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	6010B	459485
440-203718-64 MSD	AOC1-B78-SE5-D1.5-D	Total/NA	Solid	6010B	459485

Analysis Batch: 459958

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-74	AOC1-B78-SW10-D1.5	Total/NA	Solid	6010B	459487
440-203718-93	AOC1-B81-SW10-D2.5	Total/NA	Solid	6010B	459487
440-203718-94	AOC1-B81-SE5-D0.5	Total/NA	Solid	6010B	459487
440-203718-95	AOC1-B81-SE5-D1.5	Total/NA	Solid	6010B	459487
440-203718-96	AOC1-B81-SE5-D2.5	Total/NA	Solid	6010B	459487
440-203718-97	AOC1-B81-SE10-D0.5	Total/NA	Solid	6010B	459487
440-203718-98	AOC1-B81-SE10-D1.5	Total/NA	Solid	6010B	459487
440-203718-99	AOC1-B81-SE10-D2.5	Total/NA	Solid	6010B	459487
440-203718-100	AOC1-B112-N5-D0.5	Total/NA	Solid	6010B	459487
440-203718-103	AOC1-B112-N10-D0.5	Total/NA	Solid	6010B	459487
440-203718-106	AOC1-B112-W5-D0.5	Total/NA	Solid	6010B	459487
440-203718-109	AOC1-B108-S10-D0.5	Total/NA	Solid	6010B	459487
440-203718-112	AOC1-B6-N5-D0.5	Total/NA	Solid	6010B	459487
440-203718-124	AOC1-B6-S5-D0.5	Total/NA	Solid	6010B	459487
440-203718-127	AOC1-B6-S10-D0.5	Total/NA	Solid	6010B	459487
440-203718-130	AOC1-B8-S10-D0.5	Total/NA	Solid	6010B	459487
440-203718-133	AOC1-B112-W10-D0.5	Total/NA	Solid	6010B	459487
440-203718-136	AOC1-B112-W5-D0.5-D	Total/NA	Solid	6010B	459487
440-203718-140	AOC1-B108-S5-D0.5	Total/NA	Solid	6010B	459487
440-203718-144	AOC1-B8-S10-D0.5-D	Total/NA	Solid	6010B	459487
MB 440-459487/1-A ^5	Method Blank	Total/NA	Solid	6010B	459487
LCS 440-459487/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	459487
440-203718-136 MS	AOC1-B112-W5-D0.5-D	Total/NA	Solid	6010B	459487

Metals (Continued)

Analysis Batch: 459958 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-136 MSD	AOC1-B112-W5-D0.5-D	Total/NA	Solid	6010B	459487
440-203718-144 MS	AOC1-B8-S10-D0.5-D	Total/NA	Solid	6010B	459487
440-203718-144 MSD	AOC1-B8-S10-D0.5-D	Total/NA	Solid	6010B	459487

Analysis Batch: 460039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-203718-8	AOC1-B22-E5-D0.5	Total/NA	Solid	6010B	459538
440-203718-115	AOC1-B6-N10-D0.5	Total/NA	Solid	6010B	459538
440-203718-118	AOC1-B6-W5-D0.5	Total/NA	Solid	6010B	459538
440-203718-121	AOC1-B6-W10-D0.5	Total/NA	Solid	6010B	459538
440-203718-137	AOC1-B108-E5-D0.5	Total/NA	Solid	6010B	459538
440-203718-143	AOC1-B108-S10-D0.5-D	Total/NA	Solid	6010B	459538
MB 440-459538/1-A ^5	Method Blank	Total/NA	Solid	6010B	459538
LCS 440-459538/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	459538
440-203718-143 MS	AOC1-B108-S10-D0.5-D	Total/NA	Solid	6010B	459538
440-203718-143 MSD	AOC1-B108-S10-D0.5-D	Total/NA	Solid	6010B	459538

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: Reseda HS PEA

TestAmerica Job ID: 440-203718-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmei Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. h of Custody Record

Test-merica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☑ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-NW5-D2.5-D	2/19/18	1124	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5-D	2/19/18	1202	G	S	1	N	Y	X		
AOC1-B78-SW10-D0.5-D	2/19/18	1214	G	S	1	N	Y	X		
AOC1-B78-SE5-D1.5-D	2/19/18	1222	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5	2/19/18	1202	G	S	1	N		X		
AOC1-B78-NW10-D1.5	2/19/18	1204	G	S	1	N		X		
AOC1-B78-NW10-D2.5	2/19/18	1206	G	S	1	N		H		
AOC1-B78-SW5-D0.5	2/19/18	1208	G	S	1	N		X		
AOC1-B78-SW5-D1.5	2/19/18	1210	G	S	1	N		X		
AOC1-B78-SW5-D2.5	2/19/18	1212	G	S	1	N		H		
AOC1-B81-SW5-D1.5	2/19/18	1246	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1226	G	S	1	N		X		

Preservation Used: 1=Ice; 2=HCl; 3=H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

AOC1-B81-NW5-D1.5-D
NP

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd ___ Corr'd: ___	Therm ID No.: ___
Relinquished by	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wesley Rivera	Company TA-IRV / Date/Time: 2/19/18 1500
Relinquished by: Wesley Rivera	Company. TA-IRV	Date/Time 2/19/18 1720	Received by:	Company. / Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Cineles	Company TA IRV / Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949 260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling.
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes.
~ 02/19/18	2/19/18	0730	G	W	1	N		X	X	
AOC1-B22-N5-D0.5	2/19/18	0820	G	S	1	N		X		
AOC1-B22-N5-D1.5	2/19/18	0825	G	S	1	N		H		
AOC1-B22-N5-D2.5	2/19/18	0830	G	S	1	N		H		
AOC1-B22-N10-D0.5	2/19/18	0835	G	S	1	N		X		
AOC1-B22-N10-D1.5	2/19/18	0840	G	S	1	N		H		
AOC1-B22-N10-D2.5	2/19/18	0845	G	S	1	N		H		
AOC1-B22-E5-D0.5	2/19/18	0850	G	S	1	N		X		
AOC1-B22-E5-D1.5	2/19/18	0855	G	S	1	N		H		
AOC1-B22-E5-D2.5	2/19/18	0900	G	S	1	N		H		
AOC1-B22-N10-E5-D0.5	2/19/18	0835	G	S	1	N	Y	X		
AOC1-B100-E5-D0.5-D	2/19/18	1050	G	S	1	N	Y	X		

OC 2/19/18

440-203718 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by	Company.	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by: Olga Olivelas	Company: TA IRV	Date/Time: 2/19/18 17:20

2.0/1.5; 3.6/3.1, 1.8/1.3; 3.8/3.3 #506

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch[illegible] of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B22-SS-0.5	2/19/18	0905	G	S	1	N		Y		
AOC1-B22-SS-1.5	2/19/18	0910	G	S	1	N		H		
AOC1-B22-SS-2.5	2/19/18	0915	G	S	1	N		H		
AOC1-B22-S10-0.5	2/19/18	0920	G	S	1	N		X		
AOC1-B22-S10-1.5	2/19/18	0925	G	S	1	N		H		
AOC1-B22-S10-2.5	2/19/18	0930	G	S	1	N		H		
AOC1-B100-N5-0.5	2/19/18	0935	G	S	1	N			X	
AOC1-B100-N5-1.5	2/19/18	0940	G	S	1	N			H	
AOC1-B100-N5-2.5	2/19/18	0945	G	S	1	N			H	
AOC1-B100-W5-0.5	2/19/18	0950	G	S	1	N			X	
AOC1-B100-W5-1.5	2/19/18	0955	G	S	1	N			H	
AOC1-B100-W5-2.5	2/19/18	1000	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ___1___

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd: ___ Corr'd: ___		Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilh. Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by Wilh. Rivera	Company TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by: Olga Cinelas	Company TA IRV	Date/Time: 2/19/18 17:20

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri. .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 15 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B100-W10-00.5	2/19/18	1005	G	S	1	N			X	
AOC1-B100-W10-01.5	2/19/18	1010	G	S	1	N			H	
AOC1-B100-W10-02.5	2/19/18	1015	G	S	1	N			H	
AOC1-B100-S5-0.5	2/19/18	1020	G	S	1	N			X	
AOC1-B100-S5-1.5	2/19/18	1025	G	S	1	N			H	
AOC1-B100-S5-2.5	2/19/18	1030	G	S	1	N			H	
AOC1-B100-S10-00.5	2/19/18	1035	G	S	1	N			X	
AOC1-B100-S10-01.5	2/19/18	1040	G	S	1	N			H	
AOC1-B100-S10-02.5	2/19/18	1045	G	S	1	N			H	
AOC1-B100-E5-00.5	2/19/18	1050	G	S	1	N			X	
AOC1-B100-E5-01.5	2/19/18	1055	G	S	1	N			H	
AOC1-B100-E5-02.5	2/19/18	1100	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.:
Relinquished by	Company. Parsons	Date/Time: 2/19/2018 1500	Received by: Wilch. Rivera	Company. TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilch. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by.	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company. TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch of Custody Record

Testamerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes
AOC1-B100-E10-D0.5	2/19/18	1105	G	S	1	N		X	X	
AOC1-B100-E10-D1.5	2/19/18	1110	G	S	1	N		X	X	
AOC1-B100-E10-D2.5	2/19/18	1115	G	S	1	N		X	X	
AOC1-B77-NW5-D0.5	2/19/18	1120	G	S	1	N		X	X	
AOC1-B77-NW5-D1.5	2/19/18	1122	G	S	1	N		X		
AOC1-B77-NW5-D2.5	2/19/18	1124	G	S	1	N		X		
AOC1-B77-NW10-D0.5	2/19/18	1126	G	S	1	N		X		
AOC1-B77-NW10-D1.5	2/19/18	1128	G	S	1	N		X		
AOC1-B77-NW10-D2.5	2/19/18	1130	G	S	1	N		X		
AOC1-B77-SW5-D0.5	2/19/18	1132	G	S	1	N		X		
AOC1-B77-SW5-D1.5	2/19/18	1134	G	S	1	N		X		
AOC1-B77-SW5-D2.5	2/19/18	1136	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No: ____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilfredo Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilfredo Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 2/19/18 1720

TestAmeri. .rvine
17461 Denan Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Ch. . of Custody Record

Testamerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-SW10-D0.5	2/19/18	1138	G	S	1	N		X		
AOC1-B77-SW10-D1.5	2/19/18	1140	G	S	1	N		X		
AOC1_B77-SW10-D2.5	2/19/18	1142	G	S	1	N		X		
AOC1-B77-SE5-D1.5	2/19/18	1144	G	S	1	N		X		
AOC1-B77-SE5-D1.5	2/19/18	1146	G	S	1	N		X		
AOC1-B77-SE5-D2.5	2/19/18	1148	G	S	1	N		X		
AOC1-B77-SE10-D0.5	2/19/18	1150	G	S	1	N		X		
AOC1-B77-SE10-D1.5	2/19/18	1152	G	S	1	N		X		
AOC1-B77-SE10-D2.5	2/19/18	1154	G	S	1	N		X		
AOC1-B78-NW5-D0.5	2/19/18	1156	G	S	1	N		X		
AOC1-B78-NW5-D1.5	2/19/18	1158	G	S	1	N		X		
AOC1-B78-NW5-D2.5	2/19/18	1200	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company. Parsons	Date/Time: 2/19/2018 1500	Received by: Michael Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Michael Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmei Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. h of Custody Record

Test America
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B77-NW5-D2.5-D	2/19/18	1124	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5-D	2/19/18	1202	G	S	1	N	Y	X		
AOC1_B78-SW10-D2.5-D	2/19/18	1219	G	S	1	N	Y	X		
AOC1-B78-SE5-D15-D	2/19/18	1222	G	S	1	N	Y	X		
AOC1-B78-NW10-D0.5	2/19/18	1202	G	S	1	N		X		
AOC1-B78-NW10-D1.5	2/19/18	1204	G	S	1	N		X		
AOC1-B78-NW10-D2.5	2/19/18	1206	G	S	1	N		H		
AOC1-B78-SW5-D0.5	2/19/18	1208	G	S	1	N		X		
AOC1-B78-SW5-D1.5	2/19/18	1210	G	S	1	N		X		
AOC1-B78-SW5-D2.5	2/19/18	1212	G	S	1	N		H		
AOC1-B81-SW5-D1.5	2/19/18	1246	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1226	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd _____ Corr'd:_____ Therm ID No.:_____		
Relinquished by	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilda Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilda Rivera	Company. TA-IRV	Date/Time 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Meles	Company TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/5/2018 (Rev. 1)

TestAmeri .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes.
AOC1-B78-SW10-D0.5	2/19/18	1214	G	S	1	N		X		
AOC1-B78-SW10-D1.5	2/19/18	1216	G	S	1	N		X		
AOC1-B78-SW10-D2.5	2/19/18	1218	G	S	1	N		H		
AOC1-B78-SE5-D0.5	2/19/18	1220	G	S	1	N		X		
AOC1-B78-SE5-D1.5	2/19/18	1222	G	S	1	N		X		
AOC1-B78-SE5-D2.5	2/19/18	1224	G	S	1	N		H		
AOC1-B81-NW5-D0.5	2/19/18	1226	G	S	1	N		X		
AOC1-B81-NW5-D1.5	2/19/18	1228	G	S	1	N		X		
AOC1-B81-NW5-D2.5	2/19/18	1230	G	S	1	N		X		
AOC1-B81-NE5-D0.5	2/19/18	1232	G	S	1	N		X		
AOC1-B81-NE5-D1.5	2/19/18	1234	G	S	1	N		X		
AOC1-B81-NE5-D2.5	2/19/18	1236	G	S	1	N		V		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd._____ Corr'd._____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Will Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Will Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time.	Received in Laboratory by: Olga Cintes	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/5/2018 (Rev. 1)

TestAmeri rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B81-NE10-D0.5	2/19/18	1238	G	S	1	N		X		
AOC1-B81-NE10-D1.5	2/19/18	1240	G	S	1	N		X		
AOC1-B81-NE10-D2.5	2/19/18	1242	G	S	1	N		X		
AOC1-B81-SW5-D0.5	2/19/18	1244	G	S	1	N		X		
AOC1-B81-SW5-D1.5	2/19/18	1246	G	S	1	N		X		
AOC1-B81-SW5-D2.5	2/19/18	1248	G	S	1	N		X		
AOC1-B81-SW10-D0.5	2/19/18	1250	G	S	1	N		X		
AOC1-B81-SW10-D1.5	2/19/18	1252	G	S	1	N		X		
AOC1-B81-SW10-D2.5	2/19/18	1254	G	S	1	N		X		
AOC1-B81-SE5-D0.5	2/19/18	1256	G	S	1	N		X		
AOC1-B81-SE5-D1.5	2/19/18	1258	G	S	1	N		X		
AOC1-B81-SE5-D2.5	2/19/18	1300	G	S	1	N		X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd _____ Corr'd._____		Therm ID No.:_____
Relinquished by.	Company: Parsons	Date/Time. 2/19/2018 1500	Received by: Will. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Will. Rivera	Company TA-IRV	Date/Time: 2/19/18 1720	Received by.	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Morales	Company: TA IRV	Date/Time. 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Cl. n of Custody Record

Test America
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B81-SE10-D0.5	2/19/18	1302	G	S	1	N		X		
AOC1-B81-SE10-D1.5	2/19/18	1304	G	S	1	N		X		
AOC1-B81-SE10-D2.5	2/19/18	1306	G	S	1	N		X		
AOC1-B112-N5-D0.5	2/19/18	1308	G	S	1	N		X		
AOC1-B112-N5-D1.5	2/19/18	1310	G	S	1	N		H		
AOC1-B112-N5-D2.5	2/19/18	1312	G	S	1	N		H		
AOC1-B112-N10-D0.5	2/19/18	1314	G	S	1	N		X		
AOC1-B112-N10-D1.5	2/19/18	1316	G	S	1	N		H		
AOC1-B112-N10-D2.5	2/19/18	1318	G	S	1	N		H		
AOC1-B112-W5-D0.5	2/19/18	1320	G	S	1	N		X		
AOC1-B112-W5-D1.5	2/19/18	1322	G	S	1	N		H		
AOC1-B112-W5-D2.5	2/19/18	1324	G	S	1	N		H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:_____	Corr'd:_____	Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Willie Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Willie Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Tinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeri rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes.
AOC1-B 108-S10-0.5	2/19/18	1344	G	S	1	N		X	X	
AOC1-B108-S10-1.5	2/19/18	1346	G	S	1	N		H	H	
AOC1-B108 S10-2.5	2/19/18	1348	G	S	1	N		H	H	
AOC1-B6-N5.0.5	2/19/18	1336	G	S	1	N		X	X	
AOC1-B6-N5-1.5	2/19/18	1337	G	S	1	N		H	H	
AOC1-B6-N5-2.5	2/19/18	1334	G	S	1	N		H	H	
AOC1-B6-N10-0.5	2/19/18	1330	G	S	1	N		X	X	
AOC1-B6-N10-1.5	2/19/18	1332	G	S	1	N		H	H	
AOC1-B6-N10 1.2.5	2/19/18	1335	G	S	1	N		H	H	
AOC1-B6-W5-0.5	2/19/18	1340	G	S	1	N		X	X	
AOC1-B6-W5-1.5	2/19/18	1341	G	S	1	N		H	H	
AOC1-B6-W5-2.5	2/19/18	344	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company Parsons	Date/Time: 2/19/2018 1500	Received by: Wiela. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wiela. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	11 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B6-W10-D0.5	2/19/18	1346	G	S	1	N				
AOC1-B6-W10-D1.5	2/19/18	1349	G	S	1	N				
AOC1-B6-W10-D2.5	2/19/18	1350	G	S	1	N				
AOC1-B6-S5-D0.5	2/19/18	1356	G	S	1	N				
AOC1-B6-S5-D1.5	2/19/18	1354	G	S	1	N				
AOC1-B6-S5-D2.5	2/19/18	1357	G	S	1	N				
AOC1-B6-S10-D0.5	2/19/18	1359	G	S	1	N				
AOC1-B6-S10-D1.5	2/19/18	1400	G	S	1	N				
AOC1-B6-S10-D2.5	2/19/18	1402	G	S	1	N				
AOC1-B8-S10-D0.5	2/19/18	1414	G	S	1	N				
AOC1-B8-S10-D1.5	2/19/18	1417	G	S	1	N				
AOC1-B8-S10-D2.5	2/19/18	1418	G	S	1	N				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by.	Company: Parsons	Date/Time: 2/19/2018 1500	Received by. Wella-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by. Wella-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company	Date/Time:	Received in Laboratory by: Edgar Cinelas	Company: TA-IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmeric.. .rvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260.3299

Cha.. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	12 of 13 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
~~AOC1-B12-W10-D0.5-D~~	2/19/18	~~1326~~	G	S	1	N		X		
AOC1-B12-W10-D0.5	2/19/18	1326	G	S	1	N		X		
AOC1-B12-W10-D1.5	2/19/18	1328	G	S	1	N		H		
AOC1-B12-W10-D2.5	2/19/18	1330	G	S	1	N		H		
AOC1-B12-W5-D0.5-D	2/19/18	1326	G	S	1	N	Y	X		
AOC1-B108-E5-D0.5	2/19/18	1344	G	S	1	N		X	X	
AOC1-B108-E5-D1.5	2/19/18	1346	G	S	1	N		H	H	
AOC1-B108-E5-D2.5	2/19/18	1348	G	S	1	N		H	H	
AOC1-B108-S5-D0.5	2/19/18	1332	G	S	1	N		X	X	
AOC1-B108-S5-D1.5	2/19/18	1334	G	S	1	N		H	H	
AOC1-B108-S5-D2.5	2/19/18	1336	G	S	1	N		H	H	
AOC1-B108-S10-D0.5-D	2/19/18	1338	G	S	1	N	Y	X	X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐Yes ☐No	Custody Seal No.:		Cooler Temp. (°C) Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by	Company Parsons	Date/Time: 2/19/2018 1500	Received by: Wells-Rivera	Company TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wells-Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Pinelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/5/2018 (Rev. 1)

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	13 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes.
AOC1-69-S10-005-C	2/19/18	1415	G	S	1	N	Y	X		
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				
	2/19/18		G	S	1	N				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd._____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/19/2018 1500	Received by: Wilh. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by: Wilh. Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by: Olga Cimelas	Company: TA IRV	Date/Time: 2/19/18 1720

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Cl. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 2/19/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	11 of 13 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std ___			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site' Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B6-W10-D0.5	2/19/18	1346	G	S	1	N			X	
AOC1-B6-W10-D1.5	2/19/18	1349	G	S	1	N			H	
AOC1-B6-W10-D2.5	2/19/18	1350	G	S	1	N			H	
AOC1-B6-S5-D0.5	2/19/18	1352	G	S	1	N			X	
AOC1-B6-S5-D1.5	2/19/18	1354	G	S	1	N			H	
AOC1-B6-S5-D2.5	2/19/18	1357	G	S	1	N			H	
AOC1-B6-S10-D0.5	2/19/18	1357	G	S	1	N			X	
AOC1-B6-S10-D1.5	2/19/18	1400	G	S	1	N			H	
AOC1-B6-S10-D2.5	2/19/18	1402	G	S	1	N			H	
AOC1-B8-S10-D0.5	2/19/18	1414	G	S	1	N		X		
AOC1-B8-S10-D1.5	2/19/18	1417	G	S	1	N			H	
AOC1-B8-S10-D2.5	2/19/18	1418	G	S	1	N			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other 1

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:	Corr'd:	Therm ID No.:
Relinquished by.	Company: Parsons	Date/Time: 2/19/2018 1500	Received by. Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1500
Relinquished by. Wilda Rivera	Company: TA-IRV	Date/Time: 2/19/18 1720	Received by:	Company.	Date/Time:
Relinquished by.	Company	Date/Time:	Received in Laboratory by: Edgar Cineros	Company: TA-IRV	Date/Time: 2/19/18 1720

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-203718-1

Login Number: 203718
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-204170-1
Client Project/Site: LAUSD Reseda H.S., CA
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
3/8/2018 10:55:28 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 10
Method Summary 17
Lab Chronicle 18
QC Sample Results 26
QC Association Summary 31
Definitions/Glossary 35
Certification Summary 36
Chain of Custody 37
Receipt Checklists 47

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-204170-1	F022418	Water	02/24/18 07:30	02/26/18 18:10
440-204170-2	AOC1-B91-N5-D0.5	Solid	02/24/18 07:34	02/26/18 18:10
440-204170-5	AOC1-B91-N10-D0.5	Solid	02/24/18 07:40	02/26/18 18:10
440-204170-8	AOC1-B91-S5-D0.5	Solid	02/24/18 07:46	02/26/18 18:10
440-204170-11	AOC1-B91-N10-D0.5-D	Solid	02/24/18 07:40	02/26/18 18:10
440-204170-12	AOC1-B91-S10-D0.5-D	Solid	02/24/18 07:52	02/26/18 18:10
440-204170-13	AOC1-B91-S10-D0.5	Solid	02/24/18 07:52	02/26/18 18:10
440-204170-16	AOC1-B58-N5-D0.5	Solid	02/24/18 08:00	02/26/18 18:10
440-204170-19	AOC1-B58-N10-D0.5	Solid	02/24/18 08:06	02/26/18 18:10
440-204170-22	AOC1-B58-N5-D0.5-D	Solid	02/24/18 08:00	02/26/18 18:10
440-204170-23	AOC1-B58-E5-D0.5-D	Solid	02/24/18 08:12	02/26/18 18:10
440-204170-24	AOC1-B64-N5-D0.5-D	Solid	02/24/18 08:36	02/26/18 18:10
440-204170-25	AOC1-B58-E5-D0.5	Solid	02/24/18 08:12	02/26/18 18:10
440-204170-28	AOC1-B58-S5-D0.5	Solid	02/24/18 08:18	02/26/18 18:10
440-204170-31	AOC1-B58-S10-D0.5	Solid	02/24/18 08:24	02/26/18 18:10
440-204170-34	AOC1-B58/64-9-D0.5	Solid	02/24/18 08:30	02/26/18 18:10
440-204170-37	AOC1-B64-N5-D0.5	Solid	02/24/18 08:36	02/26/18 18:10
440-204170-40	AOC1-B64-N10-D0.5	Solid	02/24/18 08:42	02/26/18 18:10
440-204170-43	AOC1-B64-W5-D0.5	Solid	02/24/18 08:48	02/26/18 18:10
440-204170-46	AOC1-B64-S5-D0.5	Solid	02/24/18 08:54	02/26/18 18:10
440-204170-49	AOC1-B64-S10-D0.5	Solid	02/24/18 09:00	02/26/18 18:10
440-204170-52	AOC1-B64-W5-D0.5-D	Solid	02/24/18 08:50	02/26/18 18:10
440-204170-53	AOC1-B34-N5-D0.5	Solid	02/24/18 09:20	02/26/18 18:10
440-204170-56	AOC1-B34-N10-D0.5	Solid	02/24/18 09:26	02/26/18 18:10
440-204170-59	AOC1-B34-S5-D0.5-D	Solid	02/24/18 09:44	02/26/18 18:10
440-204170-60	AOC1-B34-E5-D0.5	Solid	02/24/18 09:32	02/26/18 18:10
440-204170-63	AOC1-B34-E10-D0.5	Solid	02/24/18 09:38	02/26/18 18:10
440-204170-66	AOC1-B34-S5-D0.5	Solid	02/24/18 09:44	02/26/18 18:10
440-204170-69	AOC1-B34-S10-D0.5	Solid	02/24/18 09:50	02/26/18 18:10
440-204170-72	AOC1-B1-N5-D0.5	Solid	02/24/18 07:37	02/26/18 18:10
440-204170-75	AOC1-B1-N10-D0.5	Solid	02/24/18 07:30	02/26/18 18:10
440-204170-78	AOC1-B1-W5-D0.5	Solid	02/24/18 08:20	02/26/18 18:10
440-204170-81	AOC1-B1-W10-D0.5	Solid	02/24/18 08:07	02/26/18 18:10
440-204170-84	AOC1-B1-N5-D0.5-DUP	Solid	02/24/18 07:40	02/26/18 18:10
440-204170-85	AOC1-B1-W10-D0.5-DUP	Solid	02/24/18 08:08	02/26/18 18:10
440-204170-86	AOC1-B1-E5-D0.5	Solid	02/24/18 08:00	02/26/18 18:10
440-204170-89	AOC1-B1-E10-D0.5	Solid	02/24/18 07:47	02/26/18 18:10
440-204170-92	AOC1-B10-N5-D0.5	Solid	02/24/18 08:46	02/26/18 18:10
440-204170-95	AOC1-B10-N5-D0.5-DUP	Solid	02/24/18 08:48	02/26/18 18:10
440-204170-96	AOC1-B10-N10-D0.5	Solid	02/24/18 08:38	02/26/18 18:10
440-204170-99	AOC1-B10-W5-D0.5	Solid	02/24/18 09:22	02/26/18 18:10
440-204170-102	AOC1-B10-W10-D0.5	Solid	02/24/18 09:10	02/26/18 18:10
440-204170-105	AOC1-B10-S5-D0.5	Solid	02/24/18 08:58	02/26/18 18:10
440-204170-108	AOC1-B10-S10-D0.5	Solid	02/24/18 08:52	02/26/18 18:10

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Job ID: 440-204170-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-204170-1

Comments
This report was revised on 3/8/18 to change the following sample IDs per client's 3/8/18 email request: AOC1-B91-S10-D0.5-D (440-204170-12) and AOC1-B1-E5-D0.5 (440-204170-86).

Receipt
The samples were received on 2/26/2018 6:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 4 coolers at receipt time were 0.1° C, 0.8° C, 0.8° C and 2.0° C.

Receipt Exceptions
The container label for the following samples did not match the information listed on the Chain-of-Custody (COC): AOC1-B34-S10-D0.5 (440-204170-69), AOC1-B34-S10-D2.5 (440-204170-71), AOC1-B1-N10-D2.5 (440-204170-77) and AOC1-B1-E5-D0.5-DUP (440-204170-86).

Sample #69 container labels list AOC1-B34-S10-D0.5 @ 09:54, while the COC lists AOC1-B34-S10-D0.5 @ 09:50.

Sample #71 container labels list AOC1-B34-S10-D0.5 @ 09:50, while the COC lists AOC1-B34-S10-D0.5 @ 09:54.

Sample #77 container labels list AOC1-B2-N10-D2.5 @ 07:35, while the COC lists AOC1-B1-N10-D2.5 @ 07:35.

Sample #86 container labels list AOC1-B1-E5-D0.5 @ 08:00, while the COC lists AOC1-B1-E5-D0.5-Dup @ 08:00.

Samples were logged in and labeled per COC. The client was contacted and they confirmed that COC times and IDs were the correct ones.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: F022418 — Lab Sample ID: 440-204170-1

No Detections.

Client Sample ID: AOC1-B91-N5-D0.5 — Lab Sample ID: 440-204170-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	25		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N10-D0.5 — Lab Sample ID: 440-204170-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-S5-D0.5 — Lab Sample ID: 440-204170-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	21		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N10-D0.5-D — Lab Sample ID: 440-204170-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-S10-D0.5-D — Lab Sample ID: 440-204170-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-S10-D0.5 — Lab Sample ID: 440-204170-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-N5-D0.5 — Lab Sample ID: 440-204170-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-N10-D0.5 — Lab Sample ID: 440-204170-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-N5-D0.5-D — Lab Sample ID: 440-204170-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-E5-D0.5-D — Lab Sample ID: 440-204170-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B64-N5-D0.5-D — Lab Sample ID: 440-204170-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-E5-D0.5 — Lab Sample ID: 440-204170-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-S5-D0.5 — Lab Sample ID: 440-204170-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58-S10-D0.5 — Lab Sample ID: 440-204170-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B58/64-9-D0.5 — Lab Sample ID: 440-204170-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-N5-D0.5 — Lab Sample ID: 440-204170-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-N10-D0.5 — Lab Sample ID: 440-204170-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-W5-D0.5 — Lab Sample ID: 440-204170-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-S5-D0.5 — Lab Sample ID: 440-204170-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-S10-D0.5 — Lab Sample ID: 440-204170-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B64-W5-D0.5-D — Lab Sample ID: 440-204170-52

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B64-W5-D0.5-D (Continued) — Lab Sample ID: 440-204170-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-N5-D0.5 — Lab Sample ID: 440-204170-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	120		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-N10-D0.5 — Lab Sample ID: 440-204170-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	19		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-S5-D0.5-D — Lab Sample ID: 440-204170-59

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	18		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-E5-D0.5 — Lab Sample ID: 440-204170-60

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	20		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-E10-D0.5 — Lab Sample ID: 440-204170-63

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	8.8		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-S5-D0.5 — Lab Sample ID: 440-204170-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	43		2.0	0.99	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B34-S10-D0.5 — Lab Sample ID: 440-204170-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	34		2.0	1.0	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-N5-D0.5 — Lab Sample ID: 440-204170-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-N10-D0.5 — Lab Sample ID: 440-204170-75

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	5.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-W5-D0.5 — Lab Sample ID: 440-204170-78

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B1-W5-D0.5 (Continued) — Lab Sample ID: 440-204170-78

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-W10-D0.5 — Lab Sample ID: 440-204170-81

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-N5-D0.5-DUP — Lab Sample ID: 440-204170-84

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-W10-D0.5-DUP — Lab Sample ID: 440-204170-85

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-E5-D0.5 — Lab Sample ID: 440-204170-86

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B1-E10-D0.5 — Lab Sample ID: 440-204170-89

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.8		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-N5-D0.5 — Lab Sample ID: 440-204170-92

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-N5-D0.5-DUP — Lab Sample ID: 440-204170-95

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-N10-D0.5 — Lab Sample ID: 440-204170-96

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-W5-D0.5 — Lab Sample ID: 440-204170-99

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-W10-D0.5 — Lab Sample ID: 440-204170-102

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B10-W10-D0.5 (Continued) — Lab Sample ID: 440-204170-102

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-S5-D0.5 — Lab Sample ID: 440-204170-105

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.6		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B10-S10-D0.5 — Lab Sample ID: 440-204170-108

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: F022418
Lab Sample ID: 440-204170-1
Date Collected: 02/24/18 07:30
Matrix: Water
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		03/02/18 10:19	03/05/18 19:13	1
Lead	ND		0.0050	0.0038	mg/L		03/02/18 10:19	03/05/18 19:13	1

Client Sample ID: AOC1-B91-N5-D0.5
Lab Sample ID: 440-204170-2
Date Collected: 02/24/18 07:34
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	25		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:28	5

Client Sample ID: AOC1-B91-N10-D0.5
Lab Sample ID: 440-204170-5
Date Collected: 02/24/18 07:40
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.2		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:30	5

Client Sample ID: AOC1-B91-S5-D0.5
Lab Sample ID: 440-204170-8
Date Collected: 02/24/18 07:46
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:48	5

Client Sample ID: AOC1-B91-N10-D0.5-D
Lab Sample ID: 440-204170-11
Date Collected: 02/24/18 07:40
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/27/18 08:44	02/27/18 23:55	5

Client Sample ID: AOC1-B91-S10-D0.5-D
Lab Sample ID: 440-204170-12
Date Collected: 02/24/18 07:52
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		02/27/18 08:44	02/27/18 23:43	5

Client Sample ID: AOC1-B91-S10-D0.5
Lab Sample ID: 440-204170-13
Date Collected: 02/24/18 07:52
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:50	5

Client Sample ID: AOC1-B58-N5-D0.5
Lab Sample ID: 440-204170-16
Date Collected: 02/24/18 08:00
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:02	5

Client Sample ID: AOC1-B58-N10-D0.5
Lab Sample ID: 440-204170-19
Date Collected: 02/24/18 08:06
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:52	5

Client Sample ID: AOC1-B58-N5-D0.5-D
Lab Sample ID: 440-204170-22
Date Collected: 02/24/18 08:00
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		02/27/18 08:44	02/28/18 00:14	5

Client Sample ID: AOC1-B58-E5-D0.5-D
Lab Sample ID: 440-204170-23
Date Collected: 02/24/18 08:12
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.4		3.0	1.5	mg/Kg		02/27/18 08:47	02/28/18 00:19	5

Client Sample ID: AOC1-B64-N5-D0.5-D
Lab Sample ID: 440-204170-24
Date Collected: 02/24/18 08:36
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.0	1.5	mg/Kg		02/27/18 08:44	02/28/18 00:07	5

Client Sample ID: AOC1-B58-E5-D0.5
Lab Sample ID: 440-204170-25
Date Collected: 02/24/18 08:12
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.8		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:55	5

Client Sample ID: AOC1-B58-S5-D0.5
Lab Sample ID: 440-204170-28
Date Collected: 02/24/18 08:18
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.3		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:57	5

Client Sample ID: AOC1-B58-S10-D0.5

Lab Sample ID: 440-204170-31
Date Collected: 02/24/18 08:24
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.9		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 17:59	5

Client Sample ID: AOC1-B58/64-9-D0.5

Lab Sample ID: 440-204170-34
Date Collected: 02/24/18 08:30
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 15:56	5

Client Sample ID: AOC1-B64-N5-D0.5

Lab Sample ID: 440-204170-37
Date Collected: 02/24/18 08:36
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 15:59	5

Client Sample ID: AOC1-B64-N10-D0.5

Lab Sample ID: 440-204170-40
Date Collected: 02/24/18 08:42
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:01	5

Client Sample ID: AOC1-B64-W5-D0.5

Lab Sample ID: 440-204170-43
Date Collected: 02/24/18 08:48
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:10	5

Client Sample ID: AOC1-B64-S5-D0.5

Lab Sample ID: 440-204170-46
Date Collected: 02/24/18 08:54
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.6		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:12	5

Client Sample ID: AOC1-B64-S10-D0.5

Lab Sample ID: 440-204170-49
Date Collected: 02/24/18 09:00
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:14	5

Client Sample ID: AOC1-B64-W5-D0.5-D
Lab Sample ID: 440-204170-52
Date Collected: 02/24/18 08:50
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/27/18 08:47	02/28/18 00:31	5

Client Sample ID: AOC1-B34-N5-D0.5
Lab Sample ID: 440-204170-53
Date Collected: 02/24/18 09:20
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	120		2.0	1.0	mg/Kg		02/28/18 10:22	03/01/18 16:17	5

Client Sample ID: AOC1-B34-N10-D0.5
Lab Sample ID: 440-204170-56
Date Collected: 02/24/18 09:26
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	19		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 16:19	5

Client Sample ID: AOC1-B34-S5-D0.5-D
Lab Sample ID: 440-204170-59
Date Collected: 02/24/18 09:44
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	18		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 15:45	5

Client Sample ID: AOC1-B34-E5-D0.5
Lab Sample ID: 440-204170-60
Date Collected: 02/24/18 09:32
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	20		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 16:21	5

Client Sample ID: AOC1-B34-E10-D0.5
Lab Sample ID: 440-204170-63
Date Collected: 02/24/18 09:38
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	8.8		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 16:24	5

Client Sample ID: AOC1-B34-S5-D0.5
Lab Sample ID: 440-204170-66
Date Collected: 02/24/18 09:44
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	43		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 16:26	5

Client Sample ID: AOC1-B34-S10-D0.5

Lab Sample ID: 440-204170-69
Date Collected: 02/24/18 09:50
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	34		2.0	1.0	mg/Kg		02/28/18 10:22	03/01/18 16:28	5

Client Sample ID: AOC1-B1-N5-D0.5

Lab Sample ID: 440-204170-72
Date Collected: 02/24/18 07:37
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.0		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:31	5

Client Sample ID: AOC1-B1-N10-D0.5

Lab Sample ID: 440-204170-75
Date Collected: 02/24/18 07:30
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	5.7		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:38	5

Client Sample ID: AOC1-B1-W5-D0.5

Lab Sample ID: 440-204170-78
Date Collected: 02/24/18 08:20
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:40	5

Client Sample ID: AOC1-B1-W10-D0.5

Lab Sample ID: 440-204170-81
Date Collected: 02/24/18 08:07
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:42	5

Client Sample ID: AOC1-B1-N5-D0.5-DUP

Lab Sample ID: 440-204170-84
Date Collected: 02/24/18 07:40
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.0		3.0	1.5	mg/Kg		02/27/18 08:47	02/28/18 00:38	5

Client Sample ID: AOC1-B1-W10-D0.5-DUP

Lab Sample ID: 440-204170-85
Date Collected: 02/24/18 08:08
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		02/27/18 08:47	02/28/18 00:45	5

Client Sample ID: AOC1-B1-E5-D0.5
Lab Sample ID: 440-204170-86
Date Collected: 02/24/18 08:00
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:45	5

Client Sample ID: AOC1-B1-E10-D0.5
Lab Sample ID: 440-204170-89
Date Collected: 02/24/18 07:47
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.8		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:47	5

Client Sample ID: AOC1-B10-N5-D0.5
Lab Sample ID: 440-204170-92
Date Collected: 02/24/18 08:46
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 16:50	5

Client Sample ID: AOC1-B10-N5-D0.5-DUP
Lab Sample ID: 440-204170-95
Date Collected: 02/24/18 08:48
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		02/27/18 08:47	02/28/18 00:52	5

Client Sample ID: AOC1-B10-N10-D0.5
Lab Sample ID: 440-204170-96
Date Collected: 02/24/18 08:38
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.5		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:04	5

Client Sample ID: AOC1-B10-W5-D0.5
Lab Sample ID: 440-204170-99
Date Collected: 02/24/18 09:22
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:06	5

Client Sample ID: AOC1-B10-W10-D0.5
Lab Sample ID: 440-204170-102
Date Collected: 02/24/18 09:10
Matrix: Solid
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:09	5

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B10-S5-D0.5 — **Lab Sample ID: 440-204170-105**
Date Collected: 02/24/18 08:58 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.6		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:17	5

Client Sample ID: AOC1-B10-S10-D0.5 — **Lab Sample ID: 440-204170-108**
Date Collected: 02/24/18 08:52 — **Matrix: Solid**
Date Received: 02/26/18 18:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.9		3.0	1.5	mg/Kg		02/28/18 09:22	03/01/18 18:20	5

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: F022418
Date Collected: 02/24/18 07:30
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-1
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	461030	03/02/18 10:19	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			461579	03/05/18 19:13	B1H	TAL IRV

Client Sample ID: AOC1-B91-N5-D0.5
Date Collected: 02/24/18 07:34
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-2
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:28	K1E	TAL IRV

Client Sample ID: AOC1-B91-N10-D0.5
Date Collected: 02/24/18 07:40
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-5
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:30	K1E	TAL IRV

Client Sample ID: AOC1-B91-S5-D0.5
Date Collected: 02/24/18 07:46
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-8
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:48	K1E	TAL IRV

Client Sample ID: AOC1-B91-N10-D0.5-D
Date Collected: 02/24/18 07:40
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-11
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460113	02/27/18 08:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/27/18 23:55	VS	TAL IRV

Client Sample ID: AOC1-B91-S10-D0.5-D
Date Collected: 02/24/18 07:52
Date Received: 02/26/18 18:10

Lab Sample ID: 440-204170-12
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460113	02/27/18 08:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/27/18 23:43	VS	TAL IRV

Client Sample ID: AOC1-B91-S10-D0.5

Lab Sample ID: 440-204170-13

Date Collected: 02/24/18 07:52

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:50	K1E	TAL IRV

Client Sample ID: AOC1-B58-N5-D0.5

Lab Sample ID: 440-204170-16

Date Collected: 02/24/18 08:00

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:02	K1E	TAL IRV

Client Sample ID: AOC1-B58-N10-D0.5

Lab Sample ID: 440-204170-19

Date Collected: 02/24/18 08:06

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:52	K1E	TAL IRV

Client Sample ID: AOC1-B58-N5-D0.5-D

Lab Sample ID: 440-204170-22

Date Collected: 02/24/18 08:00

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460113	02/27/18 08:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:14	VS	TAL IRV

Client Sample ID: AOC1-B58-E5-D0.5-D

Lab Sample ID: 440-204170-23

Date Collected: 02/24/18 08:12

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460113	02/27/18 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:19	VS	TAL IRV

Client Sample ID: AOC1-B64-N5-D0.5-D

Lab Sample ID: 440-204170-24

Date Collected: 02/24/18 08:36

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460113	02/27/18 08:44	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:07	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B58-E5-D0.5
Lab Sample ID: 440-204170-25
Date Collected: 02/24/18 08:12
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:55	K1E	TAL IRV

Client Sample ID: AOC1-B58-S5-D0.5
Lab Sample ID: 440-204170-28
Date Collected: 02/24/18 08:18
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:57	K1E	TAL IRV

Client Sample ID: AOC1-B58-S10-D0.5
Lab Sample ID: 440-204170-31
Date Collected: 02/24/18 08:24
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 17:59	K1E	TAL IRV

Client Sample ID: AOC1-B58/64-9-D0.5
Lab Sample ID: 440-204170-34
Date Collected: 02/24/18 08:30
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 15:56	K1E	TAL IRV

Client Sample ID: AOC1-B64-N5-D0.5
Lab Sample ID: 440-204170-37
Date Collected: 02/24/18 08:36
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 15:59	K1E	TAL IRV

Client Sample ID: AOC1-B64-N10-D0.5
Lab Sample ID: 440-204170-40
Date Collected: 02/24/18 08:42
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:01	K1E	TAL IRV

Client Sample ID: AOC1-B64-W5-D0.5

Lab Sample ID: 440-204170-43
Date Collected: 02/24/18 08:48
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:10	K1E	TAL IRV

Client Sample ID: AOC1-B64-S5-D0.5

Lab Sample ID: 440-204170-46
Date Collected: 02/24/18 08:54
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:12	K1E	TAL IRV

Client Sample ID: AOC1-B64-S10-D0.5

Lab Sample ID: 440-204170-49
Date Collected: 02/24/18 09:00
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:14	K1E	TAL IRV

Client Sample ID: AOC1-B64-W5-D0.5-D

Lab Sample ID: 440-204170-52
Date Collected: 02/24/18 08:50
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460113	02/27/18 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:31	VS	TAL IRV

Client Sample ID: AOC1-B34-N5-D0.5

Lab Sample ID: 440-204170-53
Date Collected: 02/24/18 09:20
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:17	K1E	TAL IRV

Client Sample ID: AOC1-B34-N10-D0.5

Lab Sample ID: 440-204170-56
Date Collected: 02/24/18 09:26
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:19	K1E	TAL IRV

Client Sample ID: AOC1-B34-S5-D0.5-D

Lab Sample ID: 440-204170-59

Date Collected: 02/24/18 09:44

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 15:45	K1E	TAL IRV

Client Sample ID: AOC1-B34-E5-D0.5

Lab Sample ID: 440-204170-60

Date Collected: 02/24/18 09:32

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:21	K1E	TAL IRV

Client Sample ID: AOC1-B34-E10-D0.5

Lab Sample ID: 440-204170-63

Date Collected: 02/24/18 09:38

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:24	K1E	TAL IRV

Client Sample ID: AOC1-B34-S5-D0.5

Lab Sample ID: 440-204170-66

Date Collected: 02/24/18 09:44

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:26	K1E	TAL IRV

Client Sample ID: AOC1-B34-S10-D0.5

Lab Sample ID: 440-204170-69

Date Collected: 02/24/18 09:50

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:28	K1E	TAL IRV

Client Sample ID: AOC1-B1-N5-D0.5

Lab Sample ID: 440-204170-72

Date Collected: 02/24/18 07:37

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:31	K1E	TAL IRV

Client Sample ID: AOC1-B1-N10-D0.5

Lab Sample ID: 440-204170-75

Date Collected: 02/24/18 07:30

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:38	K1E	TAL IRV

Client Sample ID: AOC1-B1-W5-D0.5

Lab Sample ID: 440-204170-78

Date Collected: 02/24/18 08:20

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:40	K1E	TAL IRV

Client Sample ID: AOC1-B1-W10-D0.5

Lab Sample ID: 440-204170-81

Date Collected: 02/24/18 08:07

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:42	K1E	TAL IRV

Client Sample ID: AOC1-B1-N5-D0.5-DUP

Lab Sample ID: 440-204170-84

Date Collected: 02/24/18 07:40

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460113	02/27/18 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:38	VS	TAL IRV

Client Sample ID: AOC1-B1-W10-D0.5-DUP

Lab Sample ID: 440-204170-85

Date Collected: 02/24/18 08:08

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460113	02/27/18 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:45	VS	TAL IRV

Client Sample ID: AOC1-B1-E5-D0.5

Lab Sample ID: 440-204170-86

Date Collected: 02/24/18 08:00

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:45	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B1-E10-D0.5
Lab Sample ID: 440-204170-89
Date Collected: 02/24/18 07:47
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:47	K1E	TAL IRV

Client Sample ID: AOC1-B10-N5-D0.5
Lab Sample ID: 440-204170-92
Date Collected: 02/24/18 08:46
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460453	02/28/18 10:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460890	03/01/18 16:50	K1E	TAL IRV

Client Sample ID: AOC1-B10-N5-D0.5-DUP
Lab Sample ID: 440-204170-95
Date Collected: 02/24/18 08:48
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	460113	02/27/18 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			460397	02/28/18 00:52	VS	TAL IRV

Client Sample ID: AOC1-B10-N10-D0.5
Lab Sample ID: 440-204170-96
Date Collected: 02/24/18 08:38
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:04	K1E	TAL IRV

Client Sample ID: AOC1-B10-W5-D0.5
Lab Sample ID: 440-204170-99
Date Collected: 02/24/18 09:22
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:06	K1E	TAL IRV

Client Sample ID: AOC1-B10-W10-D0.5
Lab Sample ID: 440-204170-102
Date Collected: 02/24/18 09:10
Matrix: Solid
Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:09	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Client Sample ID: AOC1-B10-S5-D0.5

Lab Sample ID: 440-204170-105

Date Collected: 02/24/18 08:58

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:17	K1E	TAL IRV

Client Sample ID: AOC1-B10-S10-D0.5

Lab Sample ID: 440-204170-108

Date Collected: 02/24/18 08:52

Matrix: Solid

Date Received: 02/26/18 18:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	460414	02/28/18 09:22	DT	TAL IRV
Total/NA	Analysis	6010B		5			460919	03/01/18 18:20	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-460113/1-A ^5
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460113

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/27/18 08:44	02/27/18 23:39	5

Lab Sample ID: LCS 440-460113/2-A ^5
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	42.8		mg/Kg		86	80 - 120

Lab Sample ID: 440-204170-11 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B91-N10-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	16		49.5	64.2		mg/Kg		98	75 - 125

Lab Sample ID: 440-204170-11 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B91-N10-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	16		49.3	62.9		mg/Kg		96	75 - 125	2	20

Lab Sample ID: 440-204170-12 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B91-S10-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	7.3		49.3	52.3		mg/Kg		91	75 - 125

Lab Sample ID: 440-204170-12 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B91-S10-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	7.3		50.0	52.2		mg/Kg		90	75 - 125	0	20

Lab Sample ID: 440-204170-22 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B58-N5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.8		49.8	52.0		mg/Kg		93	75 - 125

Lab Sample ID: 440-204170-22 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B58-N5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.8		49.5	61.9		mg/Kg		113	75 - 125	17	20

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Lab Sample ID: 440-204170-23 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B58-E5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.4		49.3	53.4		mg/Kg		91	75 - 125

Lab Sample ID: 440-204170-23 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B58-E5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.4		49.5	55.8		mg/Kg		96	75 - 125	4	20

Lab Sample ID: 440-204170-24 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B64-N5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	10		49.8	51.2		mg/Kg		82	75 - 125

Lab Sample ID: 440-204170-24 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B64-N5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	10		49.3	59.0		mg/Kg		99	75 - 125	14	20

Lab Sample ID: 440-204170-52 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B64-W5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	12		49.3	60.2		mg/Kg		98	75 - 125

Lab Sample ID: 440-204170-52 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B64-W5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	12		49.8	61.2		mg/Kg		99	75 - 125	2	20

Lab Sample ID: 440-204170-84 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B1-N5-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	8.0		49.5	63.0		mg/Kg		111	75 - 125

Lab Sample ID: 440-204170-84 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B1-N5-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	8.0		49.5	58.0		mg/Kg		101	75 - 125	8	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-204170-85 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B1-W10-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		50.0	57.1		mg/Kg		92	75 - 125

Lab Sample ID: 440-204170-85 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B1-W10-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.8	69.2		mg/Kg		117	75 - 125	19	20

Lab Sample ID: 440-204170-95 MS
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B10-N5-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		49.5	61.9		mg/Kg		102	75 - 125

Lab Sample ID: 440-204170-95 MSD
Matrix: Solid
Analysis Batch: 460397

Client Sample ID: AOC1-B10-N5-D0.5-DUP
Prep Type: Total/NA
Prep Batch: 460113

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.8	58.5		mg/Kg		95	75 - 125	6	20

Lab Sample ID: MB 440-460414/1-A ^5
Matrix: Solid
Analysis Batch: 460919

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460414

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/28/18 08:33	03/01/18 16:52	5

Lab Sample ID: LCS 440-460414/2-A ^5
Matrix: Solid
Analysis Batch: 460919

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460414

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	44.1		mg/Kg		89	80 - 120

Lab Sample ID: 440-203962-D-1-G MS ^10
Matrix: Solid
Analysis Batch: 460919

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 460414

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	5.0	J	49.5	45.5		mg/Kg		82	75 - 125

Lab Sample ID: 440-203962-D-1-H MSD ^10
Matrix: Solid
Analysis Batch: 460919

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 460414

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	5.0	J	49.8	47.8		mg/Kg		86	75 - 125	5	20

QC Sample Results

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Lab Sample ID: MB 440-460453/1-A ^5
Matrix: Solid
Analysis Batch: 460890

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 460453

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		02/28/18 10:22	03/01/18 15:40	5
Lead	ND		2.0	0.99	mg/Kg		02/28/18 10:22	03/01/18 15:40	5

Lab Sample ID: LCS 440-460453/2-A ^5
Matrix: Solid
Analysis Batch: 460890

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 460453

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.5	44.0		mg/Kg		89	80 - 120
Lead	49.5	44.3		mg/Kg		90	80 - 120

Lab Sample ID: 440-204170-59 MS
Matrix: Solid
Analysis Batch: 460890

Client Sample ID: AOC1-B34-S5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460453

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Lead	18		49.8	64.5		mg/Kg		93	75 - 125

Lab Sample ID: 440-204170-59 MSD
Matrix: Solid
Analysis Batch: 460890

Client Sample ID: AOC1-B34-S5-D0.5-D
Prep Type: Total/NA
Prep Batch: 460453

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Lead	18		49.3	63.0		mg/Kg		91	75 - 125	2	20

Lab Sample ID: MB 440-461030/1-A
Matrix: Water
Analysis Batch: 461579

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 461030

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		03/02/18 10:19	03/05/18 18:08	1
Lead	ND		0.0050	0.0038	mg/L		03/02/18 10:19	03/05/18 18:08	1

Lab Sample ID: LCS 440-461030/2-A
Matrix: Water
Analysis Batch: 461579

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 461030

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	1.13		mg/L		113	80 - 120
Lead	1.00	1.09		mg/L		109	80 - 120

Lab Sample ID: 440-203937-F-3-B MS
Matrix: Water
Analysis Batch: 461579

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 461030

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	ND		1.00	1.10		mg/L		110	75 - 125
Lead	ND		1.00	1.07		mg/L		107	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-203937-F-3-C MSD
Matrix: Water
Analysis Batch: 461579

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 461030

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	ND		1.00	1.10		mg/L		110	75 - 125	1	20
Lead	ND		1.00	1.07		mg/L		107	75 - 125	1	20

Metals

Prep Batch: 460113

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-11	AOC1-B91-N10-D0.5-D	Total/NA	Solid	3050B	
440-204170-12	AOC1-B91-S10-D0.5-D	Total/NA	Solid	3050B	
440-204170-22	AOC1-B58-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-23	AOC1-B58-E5-D0.5-D	Total/NA	Solid	3050B	
440-204170-24	AOC1-B64-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-52	AOC1-B64-W5-D0.5-D	Total/NA	Solid	3050B	
440-204170-84	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-85	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-95	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	3050B	
MB 440-460113/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-460113/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-204170-11 MS	AOC1-B91-N10-D0.5-D	Total/NA	Solid	3050B	
440-204170-11 MSD	AOC1-B91-N10-D0.5-D	Total/NA	Solid	3050B	
440-204170-12 MS	AOC1-B91-S10-D0.5-D	Total/NA	Solid	3050B	
440-204170-12 MSD	AOC1-B91-S10-D0.5-D	Total/NA	Solid	3050B	
440-204170-22 MS	AOC1-B58-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-22 MSD	AOC1-B58-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-23 MS	AOC1-B58-E5-D0.5-D	Total/NA	Solid	3050B	
440-204170-23 MSD	AOC1-B58-E5-D0.5-D	Total/NA	Solid	3050B	
440-204170-24 MS	AOC1-B64-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-24 MSD	AOC1-B64-N5-D0.5-D	Total/NA	Solid	3050B	
440-204170-52 MS	AOC1-B64-W5-D0.5-D	Total/NA	Solid	3050B	
440-204170-52 MSD	AOC1-B64-W5-D0.5-D	Total/NA	Solid	3050B	
440-204170-84 MS	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-84 MSD	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-85 MS	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-85 MSD	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-95 MS	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	3050B	
440-204170-95 MSD	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	3050B	

Analysis Batch: 460397

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-11	AOC1-B91-N10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-12	AOC1-B91-S10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-22	AOC1-B58-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-23	AOC1-B58-E5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-24	AOC1-B64-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-52	AOC1-B64-W5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-84	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-85	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-95	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	6010B	460113
MB 440-460113/1-A ^5	Method Blank	Total/NA	Solid	6010B	460113
LCS 440-460113/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	460113
440-204170-11 MS	AOC1-B91-N10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-11 MSD	AOC1-B91-N10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-12 MS	AOC1-B91-S10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-12 MSD	AOC1-B91-S10-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-22 MS	AOC1-B58-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-22 MSD	AOC1-B58-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-23 MS	AOC1-B58-E5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-23 MSD	AOC1-B58-E5-D0.5-D	Total/NA	Solid	6010B	460113

Metals (Continued)

Analysis Batch: 460397 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-24 MS	AOC1-B64-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-24 MSD	AOC1-B64-N5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-52 MS	AOC1-B64-W5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-52 MSD	AOC1-B64-W5-D0.5-D	Total/NA	Solid	6010B	460113
440-204170-84 MS	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-84 MSD	AOC1-B1-N5-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-85 MS	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-85 MSD	AOC1-B1-W10-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-95 MS	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	6010B	460113
440-204170-95 MSD	AOC1-B10-N5-D0.5-DUP	Total/NA	Solid	6010B	460113

Prep Batch: 460414

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-2	AOC1-B91-N5-D0.5	Total/NA	Solid	3050B	
440-204170-5	AOC1-B91-N10-D0.5	Total/NA	Solid	3050B	
440-204170-8	AOC1-B91-S5-D0.5	Total/NA	Solid	3050B	
440-204170-13	AOC1-B91-S10-D0.5	Total/NA	Solid	3050B	
440-204170-16	AOC1-B58-N5-D0.5	Total/NA	Solid	3050B	
440-204170-19	AOC1-B58-N10-D0.5	Total/NA	Solid	3050B	
440-204170-25	AOC1-B58-E5-D0.5	Total/NA	Solid	3050B	
440-204170-28	AOC1-B58-S5-D0.5	Total/NA	Solid	3050B	
440-204170-31	AOC1-B58-S10-D0.5	Total/NA	Solid	3050B	
440-204170-96	AOC1-B10-N10-D0.5	Total/NA	Solid	3050B	
440-204170-99	AOC1-B10-W5-D0.5	Total/NA	Solid	3050B	
440-204170-102	AOC1-B10-W10-D0.5	Total/NA	Solid	3050B	
440-204170-105	AOC1-B10-S5-D0.5	Total/NA	Solid	3050B	
440-204170-108	AOC1-B10-S10-D0.5	Total/NA	Solid	3050B	
MB 440-460414/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-460414/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-203962-D-1-G MS ^10	Matrix Spike	Total/NA	Solid	3050B	
440-203962-D-1-H MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 460453

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-34	AOC1-B58/64-9-D0.5	Total/NA	Solid	3050B	
440-204170-37	AOC1-B64-N5-D0.5	Total/NA	Solid	3050B	
440-204170-40	AOC1-B64-N10-D0.5	Total/NA	Solid	3050B	
440-204170-43	AOC1-B64-W5-D0.5	Total/NA	Solid	3050B	
440-204170-46	AOC1-B64-S5-D0.5	Total/NA	Solid	3050B	
440-204170-49	AOC1-B64-S10-D0.5	Total/NA	Solid	3050B	
440-204170-53	AOC1-B34-N5-D0.5	Total/NA	Solid	3050B	
440-204170-56	AOC1-B34-N10-D0.5	Total/NA	Solid	3050B	
440-204170-59	AOC1-B34-S5-D0.5-D	Total/NA	Solid	3050B	
440-204170-60	AOC1-B34-E5-D0.5	Total/NA	Solid	3050B	
440-204170-63	AOC1-B34-E10-D0.5	Total/NA	Solid	3050B	
440-204170-66	AOC1-B34-S5-D0.5	Total/NA	Solid	3050B	
440-204170-69	AOC1-B34-S10-D0.5	Total/NA	Solid	3050B	
440-204170-72	AOC1-B1-N5-D0.5	Total/NA	Solid	3050B	
440-204170-75	AOC1-B1-N10-D0.5	Total/NA	Solid	3050B	
440-204170-78	AOC1-B1-W5-D0.5	Total/NA	Solid	3050B	
440-204170-81	AOC1-B1-W10-D0.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 460453 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-86	AOC1-B1-E5-D0.5	Total/NA	Solid	3050B	
440-204170-89	AOC1-B1-E10-D0.5	Total/NA	Solid	3050B	
440-204170-92	AOC1-B10-N5-D0.5	Total/NA	Solid	3050B	
MB 440-460453/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-460453/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-204170-59 MS	AOC1-B34-S5-D0.5-D	Total/NA	Solid	3050B	
440-204170-59 MSD	AOC1-B34-S5-D0.5-D	Total/NA	Solid	3050B	

Analysis Batch: 460890

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-34	AOC1-B58/64-9-D0.5	Total/NA	Solid	6010B	460453
440-204170-37	AOC1-B64-N5-D0.5	Total/NA	Solid	6010B	460453
440-204170-40	AOC1-B64-N10-D0.5	Total/NA	Solid	6010B	460453
440-204170-43	AOC1-B64-W5-D0.5	Total/NA	Solid	6010B	460453
440-204170-46	AOC1-B64-S5-D0.5	Total/NA	Solid	6010B	460453
440-204170-49	AOC1-B64-S10-D0.5	Total/NA	Solid	6010B	460453
440-204170-53	AOC1-B34-N5-D0.5	Total/NA	Solid	6010B	460453
440-204170-56	AOC1-B34-N10-D0.5	Total/NA	Solid	6010B	460453
440-204170-59	AOC1-B34-S5-D0.5-D	Total/NA	Solid	6010B	460453
440-204170-60	AOC1-B34-E5-D0.5	Total/NA	Solid	6010B	460453
440-204170-63	AOC1-B34-E10-D0.5	Total/NA	Solid	6010B	460453
440-204170-66	AOC1-B34-S5-D0.5	Total/NA	Solid	6010B	460453
440-204170-69	AOC1-B34-S10-D0.5	Total/NA	Solid	6010B	460453
440-204170-72	AOC1-B1-N5-D0.5	Total/NA	Solid	6010B	460453
440-204170-75	AOC1-B1-N10-D0.5	Total/NA	Solid	6010B	460453
440-204170-78	AOC1-B1-W5-D0.5	Total/NA	Solid	6010B	460453
440-204170-81	AOC1-B1-W10-D0.5	Total/NA	Solid	6010B	460453
440-204170-86	AOC1-B1-E5-D0.5	Total/NA	Solid	6010B	460453
440-204170-89	AOC1-B1-E10-D0.5	Total/NA	Solid	6010B	460453
440-204170-92	AOC1-B10-N5-D0.5	Total/NA	Solid	6010B	460453
MB 440-460453/1-A ^5	Method Blank	Total/NA	Solid	6010B	460453
LCS 440-460453/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	460453
440-204170-59 MS	AOC1-B34-S5-D0.5-D	Total/NA	Solid	6010B	460453
440-204170-59 MSD	AOC1-B34-S5-D0.5-D	Total/NA	Solid	6010B	460453

Analysis Batch: 460919

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-2	AOC1-B91-N5-D0.5	Total/NA	Solid	6010B	460414
440-204170-5	AOC1-B91-N10-D0.5	Total/NA	Solid	6010B	460414
440-204170-8	AOC1-B91-S5-D0.5	Total/NA	Solid	6010B	460414
440-204170-13	AOC1-B91-S10-D0.5	Total/NA	Solid	6010B	460414
440-204170-16	AOC1-B58-N5-D0.5	Total/NA	Solid	6010B	460414
440-204170-19	AOC1-B58-N10-D0.5	Total/NA	Solid	6010B	460414
440-204170-25	AOC1-B58-E5-D0.5	Total/NA	Solid	6010B	460414
440-204170-28	AOC1-B58-S5-D0.5	Total/NA	Solid	6010B	460414
440-204170-31	AOC1-B58-S10-D0.5	Total/NA	Solid	6010B	460414
440-204170-96	AOC1-B10-N10-D0.5	Total/NA	Solid	6010B	460414
440-204170-99	AOC1-B10-W5-D0.5	Total/NA	Solid	6010B	460414
440-204170-102	AOC1-B10-W10-D0.5	Total/NA	Solid	6010B	460414
440-204170-105	AOC1-B10-S5-D0.5	Total/NA	Solid	6010B	460414
440-204170-108	AOC1-B10-S10-D0.5	Total/NA	Solid	6010B	460414

Metals (Continued)

Analysis Batch: 460919 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-460414/1-A ^5	Method Blank	Total/NA	Solid	6010B	460414
LCS 440-460414/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	460414
440-203962-D-1-G MS ^10	Matrix Spike	Total/NA	Solid	6010B	460414
440-203962-D-1-H MSD ^10	Matrix Spike Duplicate	Total/NA	Solid	6010B	460414

Prep Batch: 461030

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-1	F022418	Total Recoverable	Water	3005A	
MB 440-461030/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-461030/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-203937-F-3-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-203937-F-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 461579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-204170-1	F022418	Total Recoverable	Water	6010B	461030
MB 440-461030/1-A	Method Blank	Total Recoverable	Water	6010B	461030
LCS 440-461030/2-A	Lab Control Sample	Total Recoverable	Water	6010B	461030
440-203937-F-3-B MS	Matrix Spike	Total Recoverable	Water	6010B	461030
440-203937-F-3-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	461030

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-204170-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
F022418	2/24/2018	0730	G	SW	2			X	X	
Acc1-B91-N5-F0.5	2/24/2018	0734	G	S	1			X		
Acc1-B91-N5-F1.5	2/24/2018	0736	G	S	1			H		
Acc1-B91-N5-F2.5	2/24/2018	0738	G	S	1			H		
Acc1-B91-N10-F0.5	2/24/2018	0740	G	S	1			X		
Acc1-B91-N10-F1.5	2/24/2018	0742	G	S	1			H		
Acc1-B91-N10-F2.5	2/24/2018	0744	G	S	1			H		
Acc1-B91-S5-F0.5	2/24/2018	0746	G	S	1			X		
Acc1-B91-S5-F1.5	2/24/2018	0748	G	S	1			H		
Acc1-B91-S5-F2.5	2/24/2018	0750	G	S	1			H		
Acc1-B91-N10-F0.5-D	2/24/2018	0742	G	S	1		Y	X		
Acc1-B91-S10-F0.5	2/24/2018	0752	G	S	1		Y	X		

440-204170 Chain of Custody

2/26/18

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

TAT 13/7.8 0.6/0.1 25/2.0 1.3/0.8
C/C

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd:	Corr'd:	Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAL	Date/Time: 2-26-18 18:16	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Page 37 of 47

3/8/2018 (Rev. 1)

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. . of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1 - B91 - S10 - D0.5	2/24/2018	0752	G	S	1			Y		
AOC1 - B91 - S10 - D1.5	2/24/2018	0754	G	S	1			H		
AOC1 - B91 - S10 - D2.5	2/24/2018	0756	G	S	1			H		
AOC1 - B58 - N5 - D0.5	2/24/2018	0800	G	S	1			X		
AOC1 - B58 - N5 - D1.5	2/24/2018	0802	G	S	1			H		
AOC1 - B58 - N5 - D2.5	2/24/2018	0804	G	S	1			H		
AOC1 - B58 - N10 - D0.5	2/24/2018	0806	G	S	1			X		
AOC1 - B58 - N10 - D1.5	2/24/2018	0809	G	S	1			H		
AOC1 - B58 - N10 - D2.5	2/24/2018	0810	G	S	1			H		
AOC1 - B58 - N5 - D0.5-D	2/24/2018	0800	G	S	1		Y	X		
AOC1 - B58 - E5 - D0.5-D	2/24/2018	0812	G	S	1		Y	X		
AOC1 - B64 - N5 - D0.5-D	2/24/2018	0836	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2/24/18 12:00
Relinquished by:	Company: TA	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time. 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	5 of 12 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-BS8-ES-0.5	2/24/2018	0812	G	S	1			X		
AOC1-BS8-ES-1.5	2/24/2018	0814	G	S	1			H		
AOC1-BS8-ES-2.5	2/24/2018	0816	G	S	1			H		
AOC1-BS8-S5-0.5	2/24/2018	0818	G	S	1			X		
AOC1-BS8-S5-1.5	2/24/2018	0820	G	S	1			H		
AOC1-BS8-S5-2.5	2/24/2018	0822	G	S	1			H		
AOC1-BS8-S10-0.5	2/24/2018	0824	G	S	1			X		
AOC1-BS8-S10-1.5	2/24/2018	0826	G	S	1			H		
AOC1-BS8-S10-2.5	2/24/2018	0828	G	S	1			H		
AOC1-BS8/64-0.5	2/24/2018	0830	G	S	1			X		
AOC1-BS8/64-1.5	2/24/2018	0832	G	S	1			H		
AOC1-BS8/64-2.5	2/24/2018	0834	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No.: _____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAV	Date/Time: 2-26-18 12:00
Relinquished by	Company: TAV	Date/Time: 2-26-18 1820	Received by:	Company:	Date/Time
Relinquished by.	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260 3299

Ch. n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-N5-D0.5	2/24/2018	0836	G	S	1			Y		
AOC1-B64-N5-D1.5	2/24/2018	0838	G	S	1			H		
AOC1-B64-N5-D2.5	2/24/2018	0840	G	S	1			H		
AOC1-B64-N10-D0.5	2/24/2018	0842	G	S	1			X		
AOC1-B64-N10-D1.5	2/24/2018	0844	G	S	1			H		
AOC1-B64-N10-D2.5	2/24/2018	0846	G	S	1			H		
AOC1-B64-W5-D0.5	2/24/2018	0848	G	S	1			X		
AOC1-B64-W5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B64-W5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B64-S5-D0.5	2/24/2018	0854	G	S	1			X		
AOC1-B64-S5-D1.5	2/24/2018	0856	G	S	1			H		
AOC1-B64-S5-D2.5	2/24/2018	0858	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C). Obs'd:____ Corr'd:____		Therm ID No..
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2-26-18 12:00
Relinquished by:	Company: TAL	Date/Time: 2-26-18 1810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949 260 3299

Ch. .l of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B64-S10-D0.5	2/24/2018	0920	G	S	1			X		
AOC1-B64-S10-D1.5	2/24/2018	0922	G	S	1			H		
AOC1-B64-S10-D2.5	2/24/2018	0900	G	S	1			H		
AOC1-B64-W5-00.5-0	2/24/2018	0851	G	S	1	Y		X		
AOC1-B34-N5-0.5	2/24/2018	0920	G	S	1				X	
AOC1-B34-N5-D1.5	2/24/2018	0922	G	S	1				H	
AOC1-B34-N5-D2.5	2/24/2018	0924	G	S	1				H	
AOC1-B34-N10-D0.5	2/24/2018	0926	G	S	1				X	
AOC1-B34-N10-D1.5	2/24/2018	0928	G	S	1				H	
AOC1-B34-N10-D2.5	2/24/2018	0930	G	S	1				H	
AOC1-B34-S5-D0.5-0	2/24/2018	0944	G	S	1	Y			X	
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp (°C): Obs'd _____ Corr'd:_____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by	Company	Date/Time: 2-26-18 12:00
Relinquished by.	Company: TAL	Date/Time 2.26.18 1216	Received by	Company	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/8/2018 (Rev. 1)

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260 3299

Ch. .. of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No :
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B34-E5-D0.5	2/24/2018	0932	G	S	1				X	
Aoc1-B34-E5 D1.5	2/24/2018	0934	G	S	1				H	
Aoc1-B34-E5 D2.5	2/24/2018	0936	G	S	1				H	
AOC1-B34-E10 - D0.5	2/24/2018	0930	G	S	1				X	
Aoc1-B34-E10 - D1.5	2/24/2018	0940	G	S	1				H	
Aoc1 B34-E10 - D2.5	2/24/2018	0942	G	S	1				H	
Aoc1-B34-S5-D0.5	2/24/2018	0944	G	S	1				X	
Aoc1-B34-S5-D1.5	2/24/2018	0946	G	S	1				H	
Aoc1-B34-S5-D2.5	2/24/2018	0948	G	S	1				H	
Aoc1-B34 S10-D0.5	2/24/2018	0950	G	S	1				X	
Aoc1-B34-S10-D1.5	2/24/2018	0952	G	S	1				H	
Aoc1-B34-S10-D2.5	2/24/2018	0954	G	S	1				H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No : ____
Relinquished by:	Company: Parsons	Date/Time: 2/26/2018	Received by:	Company: TAI	Date/Time: 2-26-18 12:--
Relinquished by:	Company: TAI	Date/Time: 2-26-18	Received by:	Company:	Date/Time.
Relinquished by:	Company:	Date/Time.	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/8/2018 (Rev. 1)

TestAme. . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261.1022 fax 949 260.3299

Ch. .n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-D0.5	2/24/2018	0737	G	S	1			X		
AOC1-B1-N5-D1.5	2/24/2018	0742	G	S	1			H		
AOC1-B1-N5-D2.5	2/24/2018	0745	G	S	1			H		
AOC1-B1-N10-D0.5	2/24/2018	0730	G	S	1			X		
AOC1-B1-N10-D1.5	2/24/2018	0732	G	S	1			H		
AOC1-B1-N10-D2.5	2/24/2018	0735	G	S	1			H		
AOC1-B1-W5-D0.5	2/24/2018	0820	G	S	1			X		
AOC1-B1-W5-D1.5	2/24/2018	0822	G	S	1			H		
AOC1-B1-W5-D2.5	2/24/2018	0825	G	S	1			H		
AOC1-B1-W10-D0.5	2/24/2018	0807	G	S	1			X		
AOC1-B1-W10-D1.5	2/24/2018	0810	G	S	1			H		
AOC1-B1-W10-D2.5	2/24/2018	0812	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C): Obs'd. ____ Corr'd ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAI	Date/Time: 2-24-12 12:00
Relinquished by:	Company: TAI	Date/Time: 2/24/18 18:10	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 2/24/18 18:10

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	8 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
PO #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B1-N5-D0.5-Dup	2/24/2018	0740	G	S	1		Y	X		
AOC1-B1-W10-D0.5-Dup	2/24/2018	0908	G	S	1		Y	X		
AOC1-B1-E5-D0.5-Dup	2/24/2018	0802	G	S	1			X		
AOC1-B1-E5-D1.5	2/24/2018	0802	G	S	1			H		
AOC1-B1-E5-D2.5	2/24/2018	0805	G	S	1			H		
AOC1-B1-E10-D0.5	2/24/2018	0747	G	S	1			X		
AOC1-B1-E10-D1.5	2/24/2018	0748	G	S	1			H		
AOC1-B1-E10-D2.5	2/24/2018	0750	G	S	1			H		
AOC1-B10-N5-D0.5	2/24/2018	0846	G	S	1			X		
AOC1-B10-N5-D1.5	2/24/2018	0850	G	S	1			H		
AOC1-B10-N5-D2.5	2/24/2018	0852	G	S	1			H		
AOC1-B10-N5-D0.5-Dup	2/24/2018	0848	G	S	1		Y	X		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: [illegible] Tri	Date/Time: 2.26.18 17:00
Relinquished by	Company:	Date/Time: 2-26-18 810	Received by:	Company	Date/Time:
Relinquished by:	Company.	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/8/2018 (Rev. 1)

TestAme . Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Ch. .n of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	9 of 10 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client.
	☑ 2 weeks			Lab Sampling.
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-N10-D0.5	2/24/2018	0838	G	S	1			X		
AOC1-B10-N10-D1.5	2/24/2018	0840	G	S	1			H		
AOC1-B10-N10-D2.5	2/24/2018	0844	G	S	1			H		
AOC1-B10-W5-D0.5	2/24/2018	0922	G	S	1			X		
AOC1-B10-W5-D1.5	2/24/2018	0924	G	S	1			H		
AOC1-B10-W5-D2.5	2/24/2018	0925	G	S	1			H		
AOC1-B10-W10-D0.5	2/24/2018	0910	G	S	1			X		
AOC1-B10-W10-D1.5	2/24/2018	0912	G	S	1			H		
AOC1-B10-W10-D2.5	2/24/2018	0914	G	S	1			H		
AOC1-B10-S5-D0.5	2/24/2018	0858	G	S	1			X		
AOC1-B10-S5-D1.5	2/24/2018	0900	G	S	1			H		
AOC1-B10-S5-D2.5	2/24/2018	0902	G	S	1			H		

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____		
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TAL	Date/Time: 2.26.18 12:00
Relinquished by:	Company: TAL	Date/Time: 2.26.18 18:16	Received by:	Company	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAI, RV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/8/2018 (Rev. 1)

TestAmer. Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260.3299

Ch. .i of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	2/24/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☑ 2 weeks			Lab Sampling:
Project Name. Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	Sample Specific Notes:
AOC1-B10-S10-D0.5	2/24/2018	0852	G	S	1			X		
AOC1-B10-S10-D1.5	2/24/2018	0854	G	S	1			H		
AOC1-B10-S10-D2.5	2/24/2018	0856	G	S	1			H		
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					
	2/24/2018		G	S	1					

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: *NOTE: H = HOLD Sample

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 2/24/2018	Received by:	Company: TA	Date/Time: 2-26-18 0:00
Relinquished by:	Company: TA	Date/Time: 2-26-18 9:16	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 2/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3/8/2018 (Rev. 1)

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-204170-1

Login Number: 204170
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	IDs on containers do not match the COC. Logged in per COC.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-207080-1
Client Project/Site: LAUSD Reseda H.S., CA
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
4/16/2018 2:57:31 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 9
Method Summary 15
Lab Chronicle 16
QC Sample Results 23
QC Association Summary 27
Definitions/Glossary 31
Certification Summary 32
Chain of Custody 33
Receipt Checklists 40

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-207080-1	AOC1-B91-N15-D0.5	Solid	03/26/18 09:00	03/26/18 18:40
440-207080-4	AOC1-B91-N20-D0.5	Solid	03/26/18 09:06	03/26/18 18:40
440-207080-7	AOC1-B91-E5-D0.5	Solid	03/26/18 09:12	03/26/18 18:40
440-207080-10	AOC1-B91-E10-D0.5	Solid	03/26/18 09:18	03/26/18 18:40
440-207080-13	AOC1-B22-N15-D0.5	Solid	03/26/18 09:56	03/26/18 18:40
440-207080-16	AOC1-B22-S15-D0.5	Solid	03/26/18 10:02	03/26/18 18:40
440-207080-19	AOC1-B22-S20-D0.5	Solid	03/26/18 10:08	03/26/18 18:40
440-207080-22	AOC1-B8-S15-D0.5	Solid	03/26/18 11:30	03/26/18 18:40
440-207080-25	AOC1-B8-S20-D0.5	Solid	03/26/18 11:36	03/26/18 18:40
440-207080-28	AOC1-B81-NE15-D0.5	Solid	03/26/18 12:30	03/26/18 18:40
440-207080-31	AOC1-B81-NE20-D0.5	Solid	03/26/18 12:36	03/26/18 18:40
440-207080-34	AOC1-B81-SW15-D0.5	Solid	03/26/18 12:42	03/26/18 18:40
440-207080-37	AOC1-B81-SW20-D0.5	Solid	03/26/18 12:48	03/26/18 18:40
440-207080-40	AOC1-B77-NW5-D3.5	Solid	03/26/18 13:00	03/26/18 18:40
440-207080-41	AOC1-B77-NW10-D3.5	Solid	03/26/18 13:02	03/26/18 18:40
440-207080-42	AOC1-B77-N-SE5-D3.5	Solid	03/26/18 13:04	03/26/18 18:40
440-207080-43	AOC1-B77-D3.5	Solid	03/26/18 13:06	03/26/18 18:40
440-207080-44	AOC1-B77-NW20-D0.5	Solid	03/26/18 13:08	03/26/18 18:40
440-207080-45	AOC1-B77-NW20-D1.5	Solid	03/26/18 13:10	03/26/18 18:40
440-207080-46	AOC1-B77-NW20-D2.5	Solid	03/26/18 13:12	03/26/18 18:40
440-207080-48	AOC1-B77-NW38-D0.5	Solid	03/26/18 13:16	03/26/18 18:40
440-207080-49	AOC1-B77-NW38-D1.5	Solid	03/26/18 13:18	03/26/18 18:40
440-207080-50	AOC1-B77-NW38-D2.5	Solid	03/26/18 13:20	03/26/18 18:40
440-207080-52	AOC1-B77-SE22-D0.5	Solid	03/26/18 13:24	03/26/18 18:40
440-207080-53	AOC1-B77-SE22-D1.5	Solid	03/26/18 13:26	03/26/18 18:40
440-207080-55	AOC1-B78-NW22-D0.5	Solid	03/26/18 13:30	03/26/18 18:40
440-207080-58	AOC1-B112-N15-D0.5	Solid	03/26/18 14:30	03/26/18 18:40
440-207080-61	AOC1-B112-N20-D0.5	Solid	03/26/18 14:36	03/26/18 18:40
440-207080-65	AOC1-B8-S15-D0.5-D	Solid	03/26/18 11:30	03/26/18 18:40
440-207080-66	AOC1-B22-S20-D0.5-D	Solid	03/26/18 10:08	03/26/18 18:40
440-207080-67	AOC1-B77-NW20-D0.5-D	Solid	03/26/18 13:08	03/26/18 18:40
440-207080-68	AOC1-B77-NW38-D0.5-D	Solid	03/26/18 13:16	03/26/18 18:40
440-207080-69	AOC1-B81-NE15-D0.5-D	Solid	03/26/18 12:30	03/26/18 18:40
440-207080-70	AOC1-B81-SW20-D0.5-D	Solid	03/26/18 12:48	03/26/18 18:40
440-207080-71	AOC1-B91-E10-D0.5-D	Solid	03/26/18 09:18	03/26/18 18:40
440-207080-72	AOC1-B112-N15-D0.5-D	Solid	03/26/18 14:30	03/26/18 18:40
440-207080-73	F032618A	Water	03/26/18 07:30	03/26/18 18:40

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Job ID: 440-207080-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-207080-1

Comments
This report was revised on 4/16/18 to correct the total Arsenic result for sample AOC1-B91-E10-D0.5-D (440-207080-71).

Receipt
The samples were received on 3/26/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.1° C and 0.4° C.

Metals
Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for Arsenic in preparation batch 440-466258 and analytical batch 440-466735 were outside control limits. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 6010B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for Arsenic in preparation batch 440-466258 and analytical batch 440-466735 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Client Sample ID: AOC1-B91-N15-D0.5 — Lab Sample ID: 440-207080-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N20-D0.5 — Lab Sample ID: 440-207080-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	16		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-E5-D0.5 — Lab Sample ID: 440-207080-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-E10-D0.5 — Lab Sample ID: 440-207080-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-N15-D0.5 — Lab Sample ID: 440-207080-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S15-D0.5 — Lab Sample ID: 440-207080-16

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	14		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S20-D0.5 — Lab Sample ID: 440-207080-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S15-D0.5 — Lab Sample ID: 440-207080-22

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	12		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S20-D0.5 — Lab Sample ID: 440-207080-25

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.0		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE15-D0.5 — Lab Sample ID: 440-207080-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	23		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE20-D0.5 — Lab Sample ID: 440-207080-31

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B81-NE20-D0.5 (Continued) — Lab Sample ID: 440-207080-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	33		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW15-D0.5 — Lab Sample ID: 440-207080-34

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	18		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW20-D0.5 — Lab Sample ID: 440-207080-37

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW5-D3.5 — Lab Sample ID: 440-207080-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.4		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW10-D3.5 — Lab Sample ID: 440-207080-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.9		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-N-SE5-D3.5 — Lab Sample ID: 440-207080-42

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-D3.5 — Lab Sample ID: 440-207080-43

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.2		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW20-D0.5 — Lab Sample ID: 440-207080-44

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	23		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW20-D1.5 — Lab Sample ID: 440-207080-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	10		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW20-D2.5 — Lab Sample ID: 440-207080-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW38-D0.5 — Lab Sample ID: 440-207080-48

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-NW38-D0.5 (Continued) — Lab Sample ID: 440-207080-48

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW38-D1.5 — Lab Sample ID: 440-207080-49

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW38-D2.5 — Lab Sample ID: 440-207080-50

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE22-D0.5 — Lab Sample ID: 440-207080-52

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	21		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-SE22-D1.5 — Lab Sample ID: 440-207080-53

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B78-NW22-D0.5 — Lab Sample ID: 440-207080-55

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N15-D0.5 — Lab Sample ID: 440-207080-58

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	15		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N20-D0.5 — Lab Sample ID: 440-207080-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B8-S15-D0.5-D — Lab Sample ID: 440-207080-65

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	13		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B22-S20-D0.5-D — Lab Sample ID: 440-207080-66

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW20-D0.5-D — Lab Sample ID: 440-207080-67

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-NW20-D0.5-D (Continued) — Lab Sample ID: 440-207080-67

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B77-NW38-D0.5-D — Lab Sample ID: 440-207080-68

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	19		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE15-D0.5-D — Lab Sample ID: 440-207080-69

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	26	F1	3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-SW20-D0.5-D — Lab Sample ID: 440-207080-70

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.7	F1 F2	3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-E10-D0.5-D — Lab Sample ID: 440-207080-71

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	1.9	J	3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B112-N15-D0.5-D — Lab Sample ID: 440-207080-72

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: F032618A — Lab Sample ID: 440-207080-73

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B91-N15-D0.5

Lab Sample ID: 440-207080-1
Date Collected: 03/26/18 09:00
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:18	5

Client Sample ID: AOC1-B91-N20-D0.5

Lab Sample ID: 440-207080-4
Date Collected: 03/26/18 09:06
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	16		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:20	5

Client Sample ID: AOC1-B91-E5-D0.5

Lab Sample ID: 440-207080-7
Date Collected: 03/26/18 09:12
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.0		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:22	5

Client Sample ID: AOC1-B91-E10-D0.5

Lab Sample ID: 440-207080-10
Date Collected: 03/26/18 09:18
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.3		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:25	5

Client Sample ID: AOC1-B22-N15-D0.5

Lab Sample ID: 440-207080-13
Date Collected: 03/26/18 09:56
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:27	5

Client Sample ID: AOC1-B22-S15-D0.5

Lab Sample ID: 440-207080-16
Date Collected: 03/26/18 10:02
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	14		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:30	5

Client Sample ID: AOC1-B22-S20-D0.5

Lab Sample ID: 440-207080-19
Date Collected: 03/26/18 10:08
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:41	5

Client Sample ID: AOC1-B8-S15-D0.5 — **Lab Sample ID: 440-207080-22**
Date Collected: 03/26/18 11:30 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	12		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:44	5

Client Sample ID: AOC1-B8-S20-D0.5 — **Lab Sample ID: 440-207080-25**
Date Collected: 03/26/18 11:36 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.0		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:46	5

Client Sample ID: AOC1-B81-NE15-D0.5 — **Lab Sample ID: 440-207080-28**
Date Collected: 03/26/18 12:30 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:48	5

Client Sample ID: AOC1-B81-NE20-D0.5 — **Lab Sample ID: 440-207080-31**
Date Collected: 03/26/18 12:36 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	33		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 20:51	5

Client Sample ID: AOC1-B81-SW15-D0.5 — **Lab Sample ID: 440-207080-34**
Date Collected: 03/26/18 12:42 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:23	5

Client Sample ID: AOC1-B81-SW20-D0.5 — **Lab Sample ID: 440-207080-37**
Date Collected: 03/26/18 12:48 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:35	5

Client Sample ID: AOC1-B77-NW5-D3.5 — **Lab Sample ID: 440-207080-40**
Date Collected: 03/26/18 13:00 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.4		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:37	5

Client Sample ID: AOC1-B77-NW10-D3.5 — **Lab Sample ID: 440-207080-41**
Date Collected: 03/26/18 13:02 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.9		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:40	5

Client Sample ID: AOC1-B77-N-SE5-D3.5 — **Lab Sample ID: 440-207080-42**
Date Collected: 03/26/18 13:04 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:47	5

Client Sample ID: AOC1-B77-D3.5 — **Lab Sample ID: 440-207080-43**
Date Collected: 03/26/18 13:06 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.2		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:50	5

Client Sample ID: AOC1-B77-NW20-D0.5 — **Lab Sample ID: 440-207080-44**
Date Collected: 03/26/18 13:08 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	23		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:52	5

Client Sample ID: AOC1-B77-NW20-D1.5 — **Lab Sample ID: 440-207080-45**
Date Collected: 03/26/18 13:10 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	10		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:54	5

Client Sample ID: AOC1-B77-NW20-D2.5 — **Lab Sample ID: 440-207080-46**
Date Collected: 03/26/18 13:12 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.5		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:57	5

Client Sample ID: AOC1-B77-NW38-D0.5 — **Lab Sample ID: 440-207080-48**
Date Collected: 03/26/18 13:16 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:59	5

Client Sample ID: AOC1-B77-NW38-D1.5
Lab Sample ID: 440-207080-49
Date Collected: 03/26/18 13:18
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.5		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:02	5

Client Sample ID: AOC1-B77-NW38-D2.5
Lab Sample ID: 440-207080-50
Date Collected: 03/26/18 13:20
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.7		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:04	5

Client Sample ID: AOC1-B77-SE22-D0.5
Lab Sample ID: 440-207080-52
Date Collected: 03/26/18 13:24
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	21		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:06	5

Client Sample ID: AOC1-B77-SE22-D1.5
Lab Sample ID: 440-207080-53
Date Collected: 03/26/18 13:26
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:09	5

Client Sample ID: AOC1-B78-NW22-D0.5
Lab Sample ID: 440-207080-55
Date Collected: 03/26/18 13:30
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:16	5

Client Sample ID: AOC1-B112-N15-D0.5
Lab Sample ID: 440-207080-58
Date Collected: 03/26/18 14:30
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	15		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:19	5

Client Sample ID: AOC1-B112-N20-D0.5
Lab Sample ID: 440-207080-61
Date Collected: 03/26/18 14:36
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.5		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 23:21	5

Client Sample ID: AOC1-B8-S15-D0.5-D

Lab Sample ID: 440-207080-65
Date Collected: 03/26/18 11:30
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	13		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 16:33	5

Client Sample ID: AOC1-B22-S20-D0.5-D

Lab Sample ID: 440-207080-66
Date Collected: 03/26/18 10:08
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 16:45	5

Client Sample ID: AOC1-B77-NW20-D0.5-D

Lab Sample ID: 440-207080-67
Date Collected: 03/26/18 13:08
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 17:35	5

Client Sample ID: AOC1-B77-NW38-D0.5-D

Lab Sample ID: 440-207080-68
Date Collected: 03/26/18 13:16
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	19		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 17:43	5

Client Sample ID: AOC1-B81-NE15-D0.5-D

Lab Sample ID: 440-207080-69
Date Collected: 03/26/18 12:30
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	26	F1	3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 17:50	5

Client Sample ID: AOC1-B81-SW20-D0.5-D

Lab Sample ID: 440-207080-70
Date Collected: 03/26/18 12:48
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.7	F1 F2	3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 18:22	5

Client Sample ID: AOC1-B91-E10-D0.5-D

Lab Sample ID: 440-207080-71
Date Collected: 03/26/18 09:18
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	1.9	J	3.0	1.5	mg/Kg		04/16/18 00:06	04/16/18 12:29	5

Client Sample ID: AOC1-B112-N15-D0.5-D

Lab Sample ID: 440-207080-72

Date Collected: 03/26/18 14:30
Matrix: Solid
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 18:34	5

Client Sample ID: F032618A

Lab Sample ID: 440-207080-73

Date Collected: 03/26/18 07:30
Matrix: Water
Date Received: 03/26/18 18:40

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		03/30/18 11:05	03/30/18 19:47	1

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Client Sample ID: AOC1-B91-N15-D0.5
Lab Sample ID: 440-207080-1
Date Collected: 03/26/18 09:00
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:18	VS	TAL IRV

Client Sample ID: AOC1-B91-N20-D0.5
Lab Sample ID: 440-207080-4
Date Collected: 03/26/18 09:06
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:20	VS	TAL IRV

Client Sample ID: AOC1-B91-E5-D0.5
Lab Sample ID: 440-207080-7
Date Collected: 03/26/18 09:12
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:22	VS	TAL IRV

Client Sample ID: AOC1-B91-E10-D0.5
Lab Sample ID: 440-207080-10
Date Collected: 03/26/18 09:18
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:25	VS	TAL IRV

Client Sample ID: AOC1-B22-N15-D0.5
Lab Sample ID: 440-207080-13
Date Collected: 03/26/18 09:56
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:27	VS	TAL IRV

Client Sample ID: AOC1-B22-S15-D0.5
Lab Sample ID: 440-207080-16
Date Collected: 03/26/18 10:02
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:30	VS	TAL IRV

Client Sample ID: AOC1-B22-S20-D0.5

Lab Sample ID: 440-207080-19
Date Collected: 03/26/18 10:08
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:41	VS	TAL IRV

Client Sample ID: AOC1-B8-S15-D0.5

Lab Sample ID: 440-207080-22
Date Collected: 03/26/18 11:30
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:44	VS	TAL IRV

Client Sample ID: AOC1-B8-S20-D0.5

Lab Sample ID: 440-207080-25
Date Collected: 03/26/18 11:36
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:46	VS	TAL IRV

Client Sample ID: AOC1-B81-NE15-D0.5

Lab Sample ID: 440-207080-28
Date Collected: 03/26/18 12:30
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:48	VS	TAL IRV

Client Sample ID: AOC1-B81-NE20-D0.5

Lab Sample ID: 440-207080-31
Date Collected: 03/26/18 12:36
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466544	03/28/18 09:10	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 20:51	VS	TAL IRV

Client Sample ID: AOC1-B81-SW15-D0.5

Lab Sample ID: 440-207080-34
Date Collected: 03/26/18 12:42
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:23	VS	TAL IRV

Client Sample ID: AOC1-B81-SW20-D0.5

Lab Sample ID: 440-207080-37

Date Collected: 03/26/18 12:48

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:35	VS	TAL IRV

Client Sample ID: AOC1-B77-NW5-D3.5

Lab Sample ID: 440-207080-40

Date Collected: 03/26/18 13:00

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:37	VS	TAL IRV

Client Sample ID: AOC1-B77-NW10-D3.5

Lab Sample ID: 440-207080-41

Date Collected: 03/26/18 13:02

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:40	VS	TAL IRV

Client Sample ID: AOC1-B77-N-SE5-D3.5

Lab Sample ID: 440-207080-42

Date Collected: 03/26/18 13:04

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:47	VS	TAL IRV

Client Sample ID: AOC1-B77-D3.5

Lab Sample ID: 440-207080-43

Date Collected: 03/26/18 13:06

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:50	VS	TAL IRV

Client Sample ID: AOC1-B77-NW20-D0.5

Lab Sample ID: 440-207080-44

Date Collected: 03/26/18 13:08

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:52	VS	TAL IRV

Client Sample ID: AOC1-B77-NW20-D1.5
Lab Sample ID: 440-207080-45
Date Collected: 03/26/18 13:10
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:54	VS	TAL IRV

Client Sample ID: AOC1-B77-NW20-D2.5
Lab Sample ID: 440-207080-46
Date Collected: 03/26/18 13:12
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:57	VS	TAL IRV

Client Sample ID: AOC1-B77-NW38-D0.5
Lab Sample ID: 440-207080-48
Date Collected: 03/26/18 13:16
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 22:59	VS	TAL IRV

Client Sample ID: AOC1-B77-NW38-D1.5
Lab Sample ID: 440-207080-49
Date Collected: 03/26/18 13:18
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:02	VS	TAL IRV

Client Sample ID: AOC1-B77-NW38-D2.5
Lab Sample ID: 440-207080-50
Date Collected: 03/26/18 13:20
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:04	VS	TAL IRV

Client Sample ID: AOC1-B77-SE22-D0.5
Lab Sample ID: 440-207080-52
Date Collected: 03/26/18 13:24
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:06	VS	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Client Sample ID: AOC1-B77-SE22-D1.5
Date Collected: 03/26/18 13:26
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-53
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:09	VS	TAL IRV

Client Sample ID: AOC1-B78-NW22-D0.5
Date Collected: 03/26/18 13:30
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-55
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:16	VS	TAL IRV

Client Sample ID: AOC1-B112-N15-D0.5
Date Collected: 03/26/18 14:30
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-58
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:19	VS	TAL IRV

Client Sample ID: AOC1-B112-N20-D0.5
Date Collected: 03/26/18 14:36
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-61
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466545	03/28/18 09:13	DT	TAL IRV
Total/NA	Analysis	6010B		5			466808	03/28/18 23:21	VS	TAL IRV

Client Sample ID: AOC1-B8-S15-D0.5-D
Date Collected: 03/26/18 11:30
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-65
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 16:33	K1E	TAL IRV

Client Sample ID: AOC1-B22-S20-D0.5-D
Date Collected: 03/26/18 10:08
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-66
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 16:45	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW20-D0.5-D — Lab Sample ID: 440-207080-67

Date Collected: 03/26/18 13:08 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 17:35	K1E	TAL IRV

Client Sample ID: AOC1-B77-NW38-D0.5-D — Lab Sample ID: 440-207080-68

Date Collected: 03/26/18 13:16 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 17:43	K1E	TAL IRV

Client Sample ID: AOC1-B81-NE15-D0.5-D — Lab Sample ID: 440-207080-69

Date Collected: 03/26/18 12:30 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 17:50	K1E	TAL IRV

Client Sample ID: AOC1-B81-SW20-D0.5-D — Lab Sample ID: 440-207080-70

Date Collected: 03/26/18 12:48 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 18:22	K1E	TAL IRV

Client Sample ID: AOC1-B91-E10-D0.5-D — Lab Sample ID: 440-207080-71

Date Collected: 03/26/18 09:18 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	470309	04/16/18 00:06	CDH	TAL IRV
Total/NA	Analysis	6010B		5			470459	04/16/18 12:29	K1E	TAL IRV

Client Sample ID: AOC1-B112-N15-D0.5-D — Lab Sample ID: 440-207080-72

Date Collected: 03/26/18 14:30 — **Matrix: Solid**
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	466258	03/27/18 09:27	DT	TAL IRV
Total/NA	Analysis	6010B		5			466735	03/28/18 18:34	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Client Sample ID: F032618A
Date Collected: 03/26/18 07:30
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207080-73
Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	467148	03/30/18 11:05	Q1N	TAL IRV
Total Recoverable	Analysis	6010B		1			467274	03/30/18 19:47	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-466258/1-A ^5
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466258

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/27/18 09:27	03/28/18 16:29	5

Lab Sample ID: LCS 440-466258/2-A ^5
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	47.0		mg/Kg		94	80 - 120

Lab Sample ID: 440-207080-65 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B8-S15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	13		49.8	57.2		mg/Kg		89	75 - 125

Lab Sample ID: 440-207080-65 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B8-S15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	13		49.3	56.5		mg/Kg		88	75 - 125	1	20

Lab Sample ID: 440-207080-66 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B22-S20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	20		49.8	61.7		mg/Kg		85	75 - 125

Lab Sample ID: 440-207080-66 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B22-S20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	20		50.0	63.0		mg/Kg		87	75 - 125	2	20

Lab Sample ID: 440-207080-67 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B77-NW20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		49.8	55.0		mg/Kg		88	75 - 125

Lab Sample ID: 440-207080-67 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B77-NW20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.5	57.6		mg/Kg		94	75 - 125	5	20

Lab Sample ID: 440-207080-68 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B77-NW38-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	19		49.3	60.8		mg/Kg		84	75 - 125

Lab Sample ID: 440-207080-68 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B77-NW38-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	19		50.0	58.7		mg/Kg		79	75 - 125	4	20

Lab Sample ID: 440-207080-69 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B81-NE15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	26	F1	49.5	59.6	F1	mg/Kg		67	75 - 125

Lab Sample ID: 440-207080-69 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B81-NE15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	26	F1	49.8	66.3		mg/Kg		80	75 - 125	11	20

Lab Sample ID: 440-207080-70 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B81-SW20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.7	F1 F2	50.0	28.9	F1	mg/Kg		50	75 - 125

Lab Sample ID: 440-207080-70 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B81-SW20-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.7	F1 F2	49.5	71.3	F1 F2	mg/Kg		137	75 - 125	85	20

Lab Sample ID: 440-207080-72 MS
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B112-N15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		49.8	55.6		mg/Kg		90	75 - 125

Lab Sample ID: 440-207080-72 MSD
Matrix: Solid
Analysis Batch: 466735

Client Sample ID: AOC1-B112-N15-D0.5-D
Prep Type: Total/NA
Prep Batch: 466258

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.8	55.2		mg/Kg		90	75 - 125	1	20

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-466544/1-A ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466544

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/28/18 09:10	03/28/18 19:21	5

Lab Sample ID: LCS 440-466544/2-A ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466544

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	45.1		mg/Kg		91	80 - 120

Lab Sample ID: 440-207207-H-1-E MS ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 466544

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	3.5		49.5	52.9		mg/Kg		100	75 - 125

Lab Sample ID: 440-207207-H-1-F MSD ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 466544

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	3.5		49.5	56.6		mg/Kg		107	75 - 125	7	20

Lab Sample ID: MB 440-466545/1-A ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466545

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		03/28/18 09:13	03/28/18 22:18	5

Lab Sample ID: LCS 440-466545/2-A ^5
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466545

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	44.7		mg/Kg		90	80 - 120

Lab Sample ID: 440-207080-34 MS
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: AOC1-B81-SW15-D0.5
Prep Type: Total/NA
Prep Batch: 466545

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	18		49.8	62.4		mg/Kg		89	75 - 125

Lab Sample ID: 440-207080-34 MSD
Matrix: Solid
Analysis Batch: 466808

Client Sample ID: AOC1-B81-SW15-D0.5
Prep Type: Total/NA
Prep Batch: 466545

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	18		49.5	62.5		mg/Kg		90	75 - 125	0	20

Lab Sample ID: MB 440-470309/1-A ^5
Matrix: Solid
Analysis Batch: 470459

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 470309

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		04/16/18 00:06	04/16/18 12:24	5

Lab Sample ID: LCS 440-470309/2-A ^5
Matrix: Solid
Analysis Batch: 470459

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 470309

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.8	49.4		mg/Kg		99	80 - 120

Lab Sample ID: 440-207080-71 MS
Matrix: Solid
Analysis Batch: 470459

Client Sample ID: AOC1-B91-E10-D0.5-D
Prep Type: Total/NA
Prep Batch: 470309

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.9	J	49.8	49.8		mg/Kg		96	75 - 125

Lab Sample ID: 440-207080-71 MSD
Matrix: Solid
Analysis Batch: 470459

Client Sample ID: AOC1-B91-E10-D0.5-D
Prep Type: Total/NA
Prep Batch: 470309

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	1.9	J	49.8	49.5		mg/Kg		96	75 - 125	1	20

Lab Sample ID: MB 440-467148/1-A
Matrix: Water
Analysis Batch: 467274

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 467148

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		03/30/18 11:05	03/30/18 19:27	1

Lab Sample ID: LCS 440-467148/2-A
Matrix: Water
Analysis Batch: 467274

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 467148

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.982		mg/L		98	80 - 120

Lab Sample ID: 440-206698-M-4-B MS
Matrix: Water
Analysis Batch: 467274

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 467148

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.16		1.00	1.17		mg/L		101	75 - 125

Lab Sample ID: 440-206698-M-4-C MSD
Matrix: Water
Analysis Batch: 467274

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 467148

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.16		1.00	1.15		mg/L		99	75 - 125	1	20

Metals

Prep Batch: 466258

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-65	AOC1-B8-S15-D0.5-D	Total/NA	Solid	3050B	
440-207080-66	AOC1-B22-S20-D0.5-D	Total/NA	Solid	3050B	
440-207080-67	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-68	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	3050B	
440-207080-69	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	3050B	
440-207080-70	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-72	AOC1-B112-N15-D0.5-D	Total/NA	Solid	3050B	
MB 440-466258/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-466258/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-207080-65 MS	AOC1-B8-S15-D0.5-D	Total/NA	Solid	3050B	
440-207080-65 MSD	AOC1-B8-S15-D0.5-D	Total/NA	Solid	3050B	
440-207080-66 MS	AOC1-B22-S20-D0.5-D	Total/NA	Solid	3050B	
440-207080-66 MSD	AOC1-B22-S20-D0.5-D	Total/NA	Solid	3050B	
440-207080-67 MS	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-67 MSD	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-68 MS	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	3050B	
440-207080-68 MSD	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	3050B	
440-207080-69 MS	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	3050B	
440-207080-69 MSD	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	3050B	
440-207080-70 MS	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-70 MSD	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	3050B	
440-207080-72 MS	AOC1-B112-N15-D0.5-D	Total/NA	Solid	3050B	
440-207080-72 MSD	AOC1-B112-N15-D0.5-D	Total/NA	Solid	3050B	

Prep Batch: 466544

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-1	AOC1-B91-N15-D0.5	Total/NA	Solid	3050B	
440-207080-4	AOC1-B91-N20-D0.5	Total/NA	Solid	3050B	
440-207080-7	AOC1-B91-E5-D0.5	Total/NA	Solid	3050B	
440-207080-10	AOC1-B91-E10-D0.5	Total/NA	Solid	3050B	
440-207080-13	AOC1-B22-N15-D0.5	Total/NA	Solid	3050B	
440-207080-16	AOC1-B22-S15-D0.5	Total/NA	Solid	3050B	
440-207080-19	AOC1-B22-S20-D0.5	Total/NA	Solid	3050B	
440-207080-22	AOC1-B8-S15-D0.5	Total/NA	Solid	3050B	
440-207080-25	AOC1-B8-S20-D0.5	Total/NA	Solid	3050B	
440-207080-28	AOC1-B81-NE15-D0.5	Total/NA	Solid	3050B	
440-207080-31	AOC1-B81-NE20-D0.5	Total/NA	Solid	3050B	
MB 440-466544/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-466544/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-207207-H-1-E MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-207207-H-1-F MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Prep Batch: 466545

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-34	AOC1-B81-SW15-D0.5	Total/NA	Solid	3050B	
440-207080-37	AOC1-B81-SW20-D0.5	Total/NA	Solid	3050B	
440-207080-40	AOC1-B77-NW5-D3.5	Total/NA	Solid	3050B	
440-207080-41	AOC1-B77-NW10-D3.5	Total/NA	Solid	3050B	
440-207080-42	AOC1-B77-N-SE5-D3.5	Total/NA	Solid	3050B	
440-207080-43	AOC1-B77-D3.5	Total/NA	Solid	3050B	
440-207080-44	AOC1-B77-NW20-D0.5	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 466545 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-45	AOC1-B77-NW20-D1.5	Total/NA	Solid	3050B	
440-207080-46	AOC1-B77-NW20-D2.5	Total/NA	Solid	3050B	
440-207080-48	AOC1-B77-NW38-D0.5	Total/NA	Solid	3050B	
440-207080-49	AOC1-B77-NW38-D1.5	Total/NA	Solid	3050B	
440-207080-50	AOC1-B77-NW38-D2.5	Total/NA	Solid	3050B	
440-207080-52	AOC1-B77-SE22-D0.5	Total/NA	Solid	3050B	
440-207080-53	AOC1-B77-SE22-D1.5	Total/NA	Solid	3050B	
440-207080-55	AOC1-B78-NW22-D0.5	Total/NA	Solid	3050B	
440-207080-58	AOC1-B112-N15-D0.5	Total/NA	Solid	3050B	
440-207080-61	AOC1-B112-N20-D0.5	Total/NA	Solid	3050B	
MB 440-466545/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-466545/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-207080-34 MS	AOC1-B81-SW15-D0.5	Total/NA	Solid	3050B	
440-207080-34 MSD	AOC1-B81-SW15-D0.5	Total/NA	Solid	3050B	

Analysis Batch: 466735

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-65	AOC1-B8-S15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-66	AOC1-B22-S20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-67	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-68	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-69	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-70	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-72	AOC1-B112-N15-D0.5-D	Total/NA	Solid	6010B	466258
MB 440-466258/1-A ^5	Method Blank	Total/NA	Solid	6010B	466258
LCS 440-466258/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	466258
440-207080-65 MS	AOC1-B8-S15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-65 MSD	AOC1-B8-S15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-66 MS	AOC1-B22-S20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-66 MSD	AOC1-B22-S20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-67 MS	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-67 MSD	AOC1-B77-NW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-68 MS	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-68 MSD	AOC1-B77-NW38-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-69 MS	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-69 MSD	AOC1-B81-NE15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-70 MS	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-70 MSD	AOC1-B81-SW20-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-72 MS	AOC1-B112-N15-D0.5-D	Total/NA	Solid	6010B	466258
440-207080-72 MSD	AOC1-B112-N15-D0.5-D	Total/NA	Solid	6010B	466258

Analysis Batch: 466808

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-1	AOC1-B91-N15-D0.5	Total/NA	Solid	6010B	466544
440-207080-4	AOC1-B91-N20-D0.5	Total/NA	Solid	6010B	466544
440-207080-7	AOC1-B91-E5-D0.5	Total/NA	Solid	6010B	466544
440-207080-10	AOC1-B91-E10-D0.5	Total/NA	Solid	6010B	466544
440-207080-13	AOC1-B22-N15-D0.5	Total/NA	Solid	6010B	466544
440-207080-16	AOC1-B22-S15-D0.5	Total/NA	Solid	6010B	466544
440-207080-19	AOC1-B22-S20-D0.5	Total/NA	Solid	6010B	466544
440-207080-22	AOC1-B8-S15-D0.5	Total/NA	Solid	6010B	466544

Metals (Continued)

Analysis Batch: 466808 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-25	AOC1-B8-S20-D0.5	Total/NA	Solid	6010B	466544
440-207080-28	AOC1-B81-NE15-D0.5	Total/NA	Solid	6010B	466544
440-207080-31	AOC1-B81-NE20-D0.5	Total/NA	Solid	6010B	466544
440-207080-34	AOC1-B81-SW15-D0.5	Total/NA	Solid	6010B	466545
440-207080-37	AOC1-B81-SW20-D0.5	Total/NA	Solid	6010B	466545
440-207080-40	AOC1-B77-NW5-D3.5	Total/NA	Solid	6010B	466545
440-207080-41	AOC1-B77-NW10-D3.5	Total/NA	Solid	6010B	466545
440-207080-42	AOC1-B77-N-SE5-D3.5	Total/NA	Solid	6010B	466545
440-207080-43	AOC1-B77-D3.5	Total/NA	Solid	6010B	466545
440-207080-44	AOC1-B77-NW20-D0.5	Total/NA	Solid	6010B	466545
440-207080-45	AOC1-B77-NW20-D1.5	Total/NA	Solid	6010B	466545
440-207080-46	AOC1-B77-NW20-D2.5	Total/NA	Solid	6010B	466545
440-207080-48	AOC1-B77-NW38-D0.5	Total/NA	Solid	6010B	466545
440-207080-49	AOC1-B77-NW38-D1.5	Total/NA	Solid	6010B	466545
440-207080-50	AOC1-B77-NW38-D2.5	Total/NA	Solid	6010B	466545
440-207080-52	AOC1-B77-SE22-D0.5	Total/NA	Solid	6010B	466545
440-207080-53	AOC1-B77-SE22-D1.5	Total/NA	Solid	6010B	466545
440-207080-55	AOC1-B78-NW22-D0.5	Total/NA	Solid	6010B	466545
440-207080-58	AOC1-B112-N15-D0.5	Total/NA	Solid	6010B	466545
440-207080-61	AOC1-B112-N20-D0.5	Total/NA	Solid	6010B	466545
MB 440-466544/1-A ^5	Method Blank	Total/NA	Solid	6010B	466544
MB 440-466545/1-A ^5	Method Blank	Total/NA	Solid	6010B	466545
LCS 440-466544/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	466544
LCS 440-466545/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	466545
440-207080-34 MS	AOC1-B81-SW15-D0.5	Total/NA	Solid	6010B	466545
440-207080-34 MSD	AOC1-B81-SW15-D0.5	Total/NA	Solid	6010B	466545
440-207207-H-1-E MS ^5	Matrix Spike	Total/NA	Solid	6010B	466544
440-207207-H-1-F MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	466544

Prep Batch: 467148

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-73	F032618A	Total Recoverable	Water	3005A	
MB 440-467148/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-467148/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-206698-M-4-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-206698-M-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 467274

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-73	F032618A	Total Recoverable	Water	6010B	467148
MB 440-467148/1-A	Method Blank	Total Recoverable	Water	6010B	467148
LCS 440-467148/2-A	Lab Control Sample	Total Recoverable	Water	6010B	467148
440-206698-M-4-B MS	Matrix Spike	Total Recoverable	Water	6010B	467148
440-206698-M-4-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	467148

Prep Batch: 470309

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-71	AOC1-B91-E10-D0.5-D	Total/NA	Solid	3050B	
MB 440-470309/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-470309/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-207080-71 MS	AOC1-B91-E10-D0.5-D	Total/NA	Solid	3050B	

Metals (Continued)

Prep Batch: 470309 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-71 MSD	AOC1-B91-E10-D0.5-D	Total/NA	Solid	3050B	

Analysis Batch: 470459

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207080-71	AOC1-B91-E10-D0.5-D	Total/NA	Solid	6010B	470309
MB 440-470309/1-A ^5	Method Blank	Total/NA	Solid	6010B	470309
LCS 440-470309/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	470309
440-207080-71 MS	AOC1-B91-E10-D0.5-D	Total/NA	Solid	6010B	470309
440-207080-71 MSD	AOC1-B91-E10-D0.5-D	Total/NA	Solid	6010B	470309

Qualifiers

Metals

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207080-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
AOC1-B91-N15-D0.5	3/26/2018	0900	G	S	1			X	
AOC1-B91-N15-D1.5	3/26/18	0902	G	S	1			H	
AOC1-B91-N15-D2.5	3/26/18	0904	G	S	1			H	
AOC1-B91-N20-D0.5	3/26/18	0906	G	S	1			X	
AOC1-B91-N20-D1.5	3/26/18	0908	G	S	1			H	
AOC1-B91-N20-D2.5	3/26/18	0910	G	S	1			H	
AOC1-B91-E5-D0.5	3/26/18	0912	G	S	1			X	
AOC1-B91-E5-D1.5	3/26/18	0914	G	S	1			H	
AOC1-B91-E5-D2.5	3/26/18	0916	G	S	1			H	
AOC1-B91-E10-D0.5	3/26/18	0918	G	S	1			X	
AOC1-B91-E10-D1.5	3/26/18	0920	G	S	1			H	
AOC1-B91-E10-D2.5	3/26/18	0922	G	S	1			H	

440-207080 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

89.7/.4 89.4/.1

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd._____ Corr'd._____ Therm ID No.:_____		
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAL	Date/Time: 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949 261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	2 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client.
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes.
AOC1-B22-N15-0.5	3/26/2018	0956	G	S	1			X	
AOC1-B22-N15-1.5	3/26/18	0958	G	S	1			H	
AOC1-B22-N15-2.5	3/26/18	1000	G	S	1			H	
AOC1-B22-S15-0.5	3/26/18	1002	G	S	1			X	
AOC1-B22-S15-1.5	3/26/18	1004	G	S	1			H	
AOC1-B22-S15-2.5	3/26/18	1006	G	S	1			H	
AOC1-B22-S20-0.5	3/26/18	1008	G	S	1			X	
AOC1-B22-S20-1.5	3/26/18	1010	G	S	1			H	
AOC1-B22-S20-2.5	3/26/18	1012	G	S	1			H	
AOC1-B8-S15-0.5	3/26/18	1130	G	S	1			X	
AOC1-B8-S15-1.5	3/26/18	1132	G	S	1			H	
AOC1-B8-S15-2.5	3/26/18	1134	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No..		Cooler Temp. (°C): Obs'd:_____ Corr'd:_____		Therm ID No..._____
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAL	Date/Time: 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/16/2018 (Rev. 1)

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	3 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No..
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
ACC1-B8-S20-D0.5	3/26/2018	1136	G	S	1			X	
ACC1-B8-S20-D1.5	3/26/18	1139	G	S	1			H	
ACC1-B8-S20-D2.5	3/26/18	1140	G	S	1			H	
ACC1-B81-NE15-D0.5	3/26/18	1230	G	S	1			X	
ACC1-B81-NE15-D1.5	3/26/18	1232	G	S	1			H	
ACC1-B81-NE15-D2.5	3/26/18	1234	G	S	1			H	
ACC1-B81-NE20-D0.5	3/26/18	1236	G	S	1			X	
ACC1-B81-NE20-D1.5	3/26/18	1238	G	S	1			H	
ACC1-B81-NE20-D2.5	3/26/18	1240	G	S	1			H	
ACC1-B81-SW15-D0.5	3/26/18	1242	G	S	1			X	
ACC1-B81-SW15-D1.5	3/26/18	1244	G	S	1			H	
ACC1-B81-SW15-D2.5	3/26/18	1246	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C). Obs'd:____ Corr'd:____ Therm ID No.:____

Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: Tav	Date/Time: 3-26-18 1500
Relinquished by:	Company: Tav	Date/Time: 3-26-18 1800	Received by:	Company.	Date/Time:
Relinquished by:	Company.	Date/Time.	Received in Laboratory by:	Company: TAV - 112 V	Date/Time: 3/26/18 1846

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261 1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No.
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	4 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
AOC1-B81-SW20-00.5	3/26/2018	1248	G	S	1			X	
AOC1-B81-SW20-01.5	3/26/18	1250	G	S	1			H	
AOC1-B81-SW20-02.5	3/26/18	1252	G	S	1			H	
AOC1-B77-NW5-03.5	3/26/18	1300	G	S	1			X	
AOC1-B77-NW10-03.5	3/26/18	1302	G	S	1			X	
~~AOC1-B77-NE10~~			G	S	1				
AOC1-B77-NSE5-03.5	3/26/18	1304	G	S	1			X	
AOC1-B77-03.5	3/26/18	1306	G	S	1			X	
AOC1-B77-NW20-00.5	3/26/18	1308	G	S	1			X	
AOC1-B77-NW20-01.5	3/26/18	1310	G	S	1			X	
AOC1-B77-NW20-02.5	3/26/18	1312	G	S	1			X	
AOC1-B77-NW20-03.5	3/26/18	1314	G	S	1			H	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd._____ Corr'd._____		Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company TAL	Date/Time. 3-26-18 1500
Relinquished by:	Company: TAL	Date/Time: 3-26-18 1840	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 3/26/18 1810

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/16/2018 (Rev. 1)

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No: 5 of 7 COCs
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	Sampler: Nenette Paulson
100 West Walnut St	Analysis Turnaround Time			For Lab Use Only:
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			Walk-in Client:
(626) 440-6133	TAT if different from Below ____ Std ____			Lab Sampling
	☐ 2 weeks			
Project Name: Resdea HS PEA	☐ 1 week			Job / SDG No..
Site: Reseda HS	☐ 2 days			
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
AOC1-B77-NW38-B0.5	3/26/2018	1316	G	S	1			X	
AOC1-B77-NW38-B1.5	3/26/18	1318	G	S	1			X	
AOC1-B77-NW38-B2.5	3/26/18	1320	G	S	1			X	
AOC1-B77-NW38-B3.5	3/26/18	1322	G	S	1			H	
AOC1-B77-SE22-B0.5	3/26/18	1324	G	S	1			X	
AOC1-B77-SE22-B1.5	3/26/18	1326	G	S	1			X	
AOC1-B77-SE22-B2.5	3/26/18	1328	G	S	1			H	
AOC1 B78-NW22-B0.5	3/26/18	1330	G	S	1			X	
AOC1-B78-NW22-B1.5	3/26/18	1332	G	S	1			H	
AOC1-B78-NW22-B2.5	3/26/18	1334	G	S	1			H	
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.: ____
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TA	Date/Time: 3-26-18 15[illegible]
Relinquished by:	Company: TA	Date/Time: 3-26-18 1840	Received by	Company.	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	6 of 7 COCs
100 West Walnut St	**Analysis Turnaround Time**			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			**For Lab Use Only:**
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site. Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Sample Specific Notes:
AOC1-B11C-N15-D0.5	3/26/2018	1430	G	S	1			X	
AOC1-B112-N15-D1.5	3/26/18	1432	G	S	1			H	
AOC1-B112-N15-D2.5	3/26/18	1434	G	S	1			H	
AOC1-B112-N20-D0.5	3/26/18	1436	G	S	1			X	
AOC1-B112-N20-D1.5	3/26/18	1438	G	S	1			H	
AOC1-B112-N20-D2.5	3/26/18	1440	G	S	1			H	
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: ____ Corr'd: ____		Therm ID No.:
Relinquished by:	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: Parsons	Date/Time: 3-26-18 15 [illegible]
Relinquished by:	Company: TAL	Date/Time: 3.26.18 [illegible]	Received by:	Company.	Date/Time.
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TAL IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Sample Specific Notes:
T-032618A	3/26/2018	0730	G	W	1			X	Field Blank
AOC1B8-S15-P0.5-D	3/26/18	1130	G	S	1		X	X	
AOC1-B22-S20-P0.5-D	3/26/18	1109	G	S	1		X	X	
AOC1-B77-NW20-P0.5-D	3/26/18	1308	G	S	1		X	X	
AOC1-B77-NW38-P0.5-D	3/26/18	1316	G	S	1		X	X	
AOC1-B81-NE15-P0.5-D	3/26/18	1230	G	S	1		X	X	
AOC1-B81-SW20-P0.5-D	3/26/18	1245	G	S	1		X	X	
AOC1-B71-C10-P0.5-D	3/26/18	0918	G	S	1		X	X	
AOC1-B112-N15-P0.5-D	3/26/18	1430	G	S	1		X	X	
~~AOC1-B112-N15-P0.5-D~~			G	S	1				
			G	S	1				
			G	S	1				

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C): Obs'd: _____ Corr'd: _____		Therm ID No: _____
Relinquished by	Company: Parsons	Date/Time: 3/26/2018	Received by:	Company: TAI	Date/Time: 3.26.18 1500
Relinquished by:	Company: TAI	Date/Time: 3-26-18 1846	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

4/16/2018 (Rev. 1)

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-207080-1

Login Number: 207080
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-211214-1
Client Project/Site: LAUSD Reseda H.S., CA
Revision: 1

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
5/25/2018 2:34:31 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Method Summary 7
Lab Chronicle 8
QC Sample Results 10
QC Association Summary 12
Definitions/Glossary 13
Certification Summary 14
Chain of Custody 15
Receipt Checklists 19

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-211214-1	AOC1-B77-SW5-D3.5	Solid	05/12/18 10:30	05/12/18 14:10
440-211214-3	AOC1-B81-D3.5	Solid	05/12/18 09:30	05/12/18 14:10
440-211214-5	AOC1-B81-NE35-D0.5	Solid	05/12/18 09:40	05/12/18 14:10
440-211214-8	AOC1-B81-NE35-D0.5D	Solid	05/12/18 09:41	05/12/18 14:10
440-211214-9	AOC1-B91-N5-D3.5	Solid	05/12/18 08:30	05/12/18 14:10
440-211214-11	AOC1-B91-N30-D0.5	Solid	05/12/18 08:40	05/12/18 14:10
440-211214-17	EB051218 B	Water	05/12/18 00:01	05/12/18 14:10

Case Narrative

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Job ID: 440-211214-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-211214-1

Comments
This report was revised on 5/25/18 to change selected sample IDs per client's emailed request.

Receipt
The samples were received on 5/12/2018 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 1.0º C.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Client Sample ID: AOC1-B77-SW5-D3.5 — Lab Sample ID: 440-211214-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	9.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-D3.5 — Lab Sample ID: 440-211214-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	8.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE35-D0.5 — Lab Sample ID: 440-211214-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	20		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B81-NE35-D0.5D — Lab Sample ID: 440-211214-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	11		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N5-D3.5 — Lab Sample ID: 440-211214-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	6.7		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: AOC1-B91-N30-D0.5 — Lab Sample ID: 440-211214-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	7.3		3.0	1.5	mg/Kg	5		6010B	Total/NA

Client Sample ID: EB051218 B — Lab Sample ID: 440-211214-17

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-B77-SW5-D3.5

Lab Sample ID: 440-211214-1
Date Collected: 05/12/18 10:30
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	9.3		3.0	1.5	mg/Kg		05/16/18 07:55	05/18/18 23:48	5

Client Sample ID: AOC1-B81-D3.5

Lab Sample ID: 440-211214-3
Date Collected: 05/12/18 09:30
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	8.3		3.0	1.5	mg/Kg		05/16/18 07:55	05/18/18 23:51	5

Client Sample ID: AOC1-B81-NE35-D0.5

Lab Sample ID: 440-211214-5
Date Collected: 05/12/18 09:40
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	20		3.0	1.5	mg/Kg		05/16/18 07:55	05/19/18 00:27	5

Client Sample ID: AOC1-B81-NE35-D0.5D

Lab Sample ID: 440-211214-8
Date Collected: 05/12/18 09:41
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	11		3.0	1.5	mg/Kg		05/16/18 07:55	05/18/18 23:31	5

Client Sample ID: AOC1-B91-N5-D3.5

Lab Sample ID: 440-211214-9
Date Collected: 05/12/18 08:30
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	6.7		3.0	1.5	mg/Kg		05/16/18 07:55	05/19/18 00:30	5

Client Sample ID: AOC1-B91-N30-D0.5

Lab Sample ID: 440-211214-11
Date Collected: 05/12/18 08:40
Matrix: Solid
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		3.0	1.5	mg/Kg		05/16/18 07:55	05/19/18 00:40	5

Client Sample ID: EB051218 B

Lab Sample ID: 440-211214-17
Date Collected: 05/12/18 00:01
Matrix: Water
Date Received: 05/12/18 14:10

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		05/18/18 14:01	05/21/18 22:35	1

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Method	Method Description	Protocol	Laboratory
6010B	Metals (ICP)	SW846	TAL IRV
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	TAL IRV
3050B	Preparation, Metals	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Client Sample ID: AOC1-B77-SW5-D3.5 — Lab Sample ID: 440-211214-1

Date Collected: 05/12/18 10:30 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.00 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/18/18 23:48	K1E	TAL IRV

Client Sample ID: AOC1-B81-D3.5 — Lab Sample ID: 440-211214-3

Date Collected: 05/12/18 09:30 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/18/18 23:51	K1E	TAL IRV

Client Sample ID: AOC1-B81-NE35-D0.5 — Lab Sample ID: 440-211214-5

Date Collected: 05/12/18 09:40 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/19/18 00:27	K1E	TAL IRV

Client Sample ID: AOC1-B81-NE35-D0.5D — Lab Sample ID: 440-211214-8

Date Collected: 05/12/18 09:41 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.02 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/18/18 23:31	K1E	TAL IRV

Client Sample ID: AOC1-B91-N5-D3.5 — Lab Sample ID: 440-211214-9

Date Collected: 05/12/18 08:30 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.03 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/19/18 00:30	K1E	TAL IRV

Client Sample ID: AOC1-B91-N30-D0.5 — Lab Sample ID: 440-211214-11

Date Collected: 05/12/18 08:40 — **Matrix: Solid**
Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.01 g	50 mL	476477	05/16/18 07:55	DT	TAL IRV
Total/NA	Analysis	6010B		5			477350	05/19/18 00:40	K1E	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Client Sample ID: EB051218 B

Date Collected: 05/12/18 00:01
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211214-17

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	3005A			25 mL	25 mL	477231	05/18/18 14:01	MN1	TAL IRV
Total Recoverable	Analysis	6010B		1			477716	05/21/18 22:35	K1E	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-476477/1-A ^5
Matrix: Solid
Analysis Batch: 477350

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		3.0	1.5	mg/Kg		05/16/18 07:55	05/18/18 23:24	5

Lab Sample ID: LCS 440-476477/2-A ^5
Matrix: Solid
Analysis Batch: 477350

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	49.3	44.8		mg/Kg		91	80 - 120

Lab Sample ID: 440-211214-8 MS
Matrix: Solid
Analysis Batch: 477350

Client Sample ID: AOC1-B81-NE35-D0.5D
Prep Type: Total/NA
Prep Batch: 476477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	11		49.8	55.9		mg/Kg		90	75 - 125

Lab Sample ID: 440-211214-8 MSD
Matrix: Solid
Analysis Batch: 477350

Client Sample ID: AOC1-B81-NE35-D0.5D
Prep Type: Total/NA
Prep Batch: 476477

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	11		49.5	54.5		mg/Kg		88	75 - 125	3	20

Lab Sample ID: MB 440-477231/1-A
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 477231

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.010	0.0089	mg/L		05/18/18 14:01	05/21/18 21:04	1

Lab Sample ID: LCS 440-477231/2-A
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 477231

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	1.00	0.911		mg/L		91	80 - 120

Lab Sample ID: 440-210948-N-1-B MS ^2
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 477231

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Arsenic	0.025		1.00	0.980		mg/L		96	75 - 125

Lab Sample ID: 440-210948-N-1-C MSD ^2
Matrix: Water
Analysis Batch: 477716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total Recoverable
Prep Batch: 477231

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Arsenic	0.025		1.00	0.981		mg/L		96	75 - 125	0	20

Metals

Prep Batch: 476477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-1	AOC1-B77-SW5-D3.5	Total/NA	Solid	3050B	
440-211214-3	AOC1-B81-D3.5	Total/NA	Solid	3050B	
440-211214-5	AOC1-B81-NE35-D0.5	Total/NA	Solid	3050B	
440-211214-8	AOC1-B81-NE35-D0.5D	Total/NA	Solid	3050B	
440-211214-9	AOC1-B91-N5-D3.5	Total/NA	Solid	3050B	
440-211214-11	AOC1-B91-N30-D0.5	Total/NA	Solid	3050B	
MB 440-476477/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-476477/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-211214-8 MS	AOC1-B81-NE35-D0.5D	Total/NA	Solid	3050B	
440-211214-8 MSD	AOC1-B81-NE35-D0.5D	Total/NA	Solid	3050B	

Prep Batch: 477231

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-17	EB051218 B	Total Recoverable	Water	3005A	
MB 440-477231/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-477231/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-210948-N-1-B MS ^2	Matrix Spike	Total Recoverable	Water	3005A	
440-210948-N-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Analysis Batch: 477350

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-1	AOC1-B77-SW5-D3.5	Total/NA	Solid	6010B	476477
440-211214-3	AOC1-B81-D3.5	Total/NA	Solid	6010B	476477
440-211214-5	AOC1-B81-NE35-D0.5	Total/NA	Solid	6010B	476477
440-211214-8	AOC1-B81-NE35-D0.5D	Total/NA	Solid	6010B	476477
440-211214-9	AOC1-B91-N5-D3.5	Total/NA	Solid	6010B	476477
440-211214-11	AOC1-B91-N30-D0.5	Total/NA	Solid	6010B	476477
MB 440-476477/1-A ^5	Method Blank	Total/NA	Solid	6010B	476477
LCS 440-476477/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	476477
440-211214-8 MS	AOC1-B81-NE35-D0.5D	Total/NA	Solid	6010B	476477
440-211214-8 MSD	AOC1-B81-NE35-D0.5D	Total/NA	Solid	6010B	476477

Analysis Batch: 477716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211214-17	EB051218 B	Total Recoverable	Water	6010B	477231
MB 440-477231/1-A	Method Blank	Total Recoverable	Water	6010B	477231
LCS 440-477231/2-A	Lab Control Sample	Total Recoverable	Water	6010B	477231
440-210948-N-1-B MS ^2	Matrix Spike	Total Recoverable	Water	6010B	477231
440-210948-N-1-C MSD ^2	Matrix Spike Duplicate	Total Recoverable	Water	6010B	477231

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211214-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

Analysis Method	Prep Method	Matrix	Analyte

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 5/12/18	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std X			Walk-In Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O # 450810	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B77-SW5-D3.5	5/12/18	1030	G	S	1			X				
AOC1-B77-SW5-D5.0	5/12/18	1036	G	S	1			H				
AOC1-B81-D3.5	5/12/18	0930	G	S	1			X				
AOC1-B81-D5.0-WE	5/12/18	0936	G	S	1			H				
AOC1-B81-~~AW~~35-D05	5/12/18	0940	G	S	1			X				
AOC1-B81-~~WE AW~~35-D1.5	5/12/18	0944	G	S	1			H				
AOC1-B81-~~WE~~AW35-D2.5	5/12/18	0948	G	S	1			H				
AOC1-B81-~~AWE~~W35-D05D	5/12/18	0941	G	S	1		Y	X				Duplicate
AOC1-B91-N5-D3.5	5/12/18	0830	G	S	1			X				
AOC1-B91-N5-D5.0	5/12/18	0836	G	S	1			H				
AOC1-B91-N30-D05	5/12/18	0840	G	S	1			X				
AOC1-B91-N30-D1.5	5/12/18	0844	G	S	1			H				

440-211214 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:
H = Hold

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd:	Corr'd:	Therm ID No.:
Relinquished by: N Paulson	Company: Parsons	Date/Time: 5/12/18 1103	Received by:	Company: TAIRV	Date/Time: 5/12/18 1103
Relinquished by:	Company: TA-IRV	Date/Time: 5/12/18 1410	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TAIRV	Date/Time: 5/12/18 1410

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

10/1.0 11L-SC4

5/25/2018 (Rev. 1)

Page 15 of 19

Page 15 of 17

5/23/2018

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Friday, May 25, 2018 1:40 PM
To: Mata, Patty
Subject: RE: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA
Attachments: SKMBT_36318052513340.pdf

-External Email-

Patty
I just realized that there was an error with a sample ID. I have corrected it on the attached COC but it is a little hard to see. Can you please change the following:
AOC1-B81-NW35-D0.5 should be AOC1-B81-NE35-D0.5
AOC1-B81-NW35-D0.5D should be AOC1-B81-NE35-D0.5D
AOC1-B81-NW35-D1.5 should be AOC1-B81-NE35-D1.5
AOC1-B81-NW35-D2.5 should be AOC1-B81-NE35-D2.5
This will affect the two samples that I released for analysis.
Thanks
Justin

From: Mata, Patty <patty.mata@testamericainc.com>
Sent: Wednesday, May 23, 2018 10:41 AM
To: King, Justin <Justin.King@parsons.com>
Subject: TestAmerica report files from 440-211214-1 LAUSD Reseda H.S., CA

Hello,

Attached please find the report files for job 440-211214-1; LAUSD Reseda H.S., CA

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

PATTY MATA
Project Manager

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [449221]
Attachments: 1

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949 260 3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 5/12/18	COC No
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 2 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler. Nenette Paulson
Pasadena, Ca 91124	☐CALENDAR DAYS ☐WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std X			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O # 450810	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-B77-SW5-D3.5	5/12/18	1030	G	S	1			X				
AOC1-B77-SW5-D5.0	5/12/18	1036	G	S	1			H				
AOC1-B81-D3.5	5/12/18	0930	G	S	1			X				
AOC1-B81-D5.0	5/12/18	0936	G	S	1			H				
AOC1-B81-NW35-D0.5	5/12/18	0940	G	S	1			X				
AOC1-B81-NW35-D1.5	5/12/18	0944	G	S	1			H				
AOC1-B81-NW35-D2.5	5/12/18	0948	G	S	1			H				
AOC1-B81-NW35-D0.5D	5/12/18	0941	G	S	1		Y	X				Duplicate
AOC1-B91-N5-D3.5	5/12/18	0830	G	S	1			X				
AOC1-B91-N5-D5.0	5/12/18	0836	G	S	1			H				
AOC1-B91-N30-D0.5	5/12/18	0840	G	S	1			X				
AOC1-B91-N30-D1.5	5/12/18	0844	G	S	1			H				

440-211214 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.
☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:
H = Hold

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:		Cooler Temp. (°C). Obs'd:	Corr'd:	Therm ID No..
Relinquished by: N Paulson	Company: Parsons	Date/Time: 5/12/18 1103	Received by:	Company: TA-IRV	Date/Time: 5/12/18 1103
Relinquished by:	Company: TA-IRV	Date/Time: 5/12/18 1410	Received by:	Company:	Date/Time:
Relinquished by	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 5/12/18 1410

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

10/1.0 11.5C4

5/25/2018 (Rev. 1)

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record

195326

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.

TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin Kirby	Site Contact: N. Parkson	Date: 5/12/18	COC No:
Company Name: PARSONS	Tel/Fax: 626 440 6133	Lab Contact: Patty Mata	Carrier:	2 of 2 COCs
Address: 100 W Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 6264406133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic																Sample Specific Notes
AOC1-B91-N30-D2.5	5/12/18	0848	G	S	1			H																
AOC1-B91-N40-D0.5	5/12/18	0852	G	S	1			H																
AOC1-B91-N40-D1.5	5/12/18	0856	G	S	1			H																
AOC1-B91-N40-D2.5	5/12/18	0900	G	S	1			H																
EB051218B	5/12/18		G	W	1			X																Equipment Blank

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

H = Hold

Custody Seals Intact. ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____ Therm ID No.: _____			
Relinquished by: N. Parkson	Company: Parsons	Date/Time: 5/12/18 1104	Received by:	Company: TA-IRV	Date/Time: 5/12/18 1103
Relinquished by:	Company: TA-IRV	Date/Time: 5/12/18 1410	Received by:	Company:	Date/Time
Relinquished by:	Company:	Date/Time	Received in Laboratory by:	Company: TARV	Date/Time: 5/12/18 1410

5/12/18

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-211214-1

Login Number: 211214
List Number: 1
Creator: Bonta, Lucia F

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-198803-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 11:02:12 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 14
Method Summary 15
Lab Chronicle 16
QC Sample Results 18
QC Association Summary 23
Definitions/Glossary 24
Certification Summary 25
Chain of Custody 26
Receipt Checklists 29

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-198803-6	AOC1(B46,B47,B48,B51-0.5')	Solid	12/19/17 07:30	12/20/17 10:59
440-198803-11	AOC1(B57,B58,B59,B61-0.5')	Solid	12/19/17 07:45	12/20/17 10:59
440-198803-17	AOC1(B62,B63,B64,B65,B66-0.5')	Solid	12/19/17 08:15	12/20/17 10:59
440-198803-23	AOC1(B67,B68,B69,B70,B71-0.5')	Solid	12/19/17 09:00	12/20/17 10:59
440-198803-28	AOC1(B72,B73,B74,B75-0.5')	Solid	12/19/17 10:00	12/20/17 10:59
440-198803-35	AOC1(B76,B77,B78,B79,B80,B81-0.5')	Solid	12/19/17 13:45	12/20/17 10:59
440-198803-40	AOC1(B82,B83,B84,B85-0.5')	Solid	12/19/17 12:45	12/20/17 10:59
440-198803-46	AOC1(B40,B41,B43,B44-B45-0.5')	Solid	12/18/17 11:10	12/20/17 10:59
440-198803-51	AOC1(B30,B31,B33,B34-0.5')	Solid	12/18/17 09:40	12/20/17 10:59
440-198803-56	AOC1(B36,B37,B38,B39-0.5')	Solid	12/18/17 12:10	12/20/17 10:59
440-198803-61	AOC1(B52,B54,B55,B60-0.5')	Solid	12/18/17 14:05	12/20/17 10:59

Job ID: 440-198803-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-198803-1

Comments
No additional comments.

Receipt
The samples were received on 12/19/2017 6:55 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 5.7º C and 5.9º C.

Receipt Exceptions
The following sample was not received: AOC1-B50-D0.5, but it was requested on COC form to be used as part of composite sample. Client was contacted and the affected sample was removed from the composite request due to no sample received.

GC Semi VOA
Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-449003 and analytical batch 440-449006 were outside control limits for Endosulfan sulfate. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Client Sample ID: AOC1(B46,B47,B48,B51-0.5') — Lab Sample ID: 440-198803-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	5.2		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	24	J	50	9.9	ug/Kg	1		8081A	Total/NA
Dieldrin	2.3	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B57,B58,B59,B61-0.5') — Lab Sample ID: 440-198803-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	5.8		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.6	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	15	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B62,B63,B64,B65,B66-0.5') — Lab Sample ID: 440-198803-17

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	15		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	14		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	51		50	10	ug/Kg	1		8081A	Total/NA
Dieldrin	4.0	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B67,B68,B69,B70,B71-0.5') — Lab Sample ID: 440-198803-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	13		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	11		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	36	J	50	10	ug/Kg	1		8081A	Total/NA
Dieldrin	2.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B72,B73,B74,B75-0.5') — Lab Sample ID: 440-198803-28

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	9.3		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	8.0		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	44	J	50	10	ug/Kg	1		8081A	Total/NA
Dieldrin	3.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B76,B77,B78,B79,B80,B81-0.5') — Lab Sample ID: 440-198803-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	18		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	7.5		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	14	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B82,B83,B84,B85-0.5') — Lab Sample ID: 440-198803-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	11		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	5.6		5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B40,B41,B43,B44-B45-0.5') — Lab Sample ID: 440-198803-46

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Client Sample ID: AOC1(B40,B41,B43,B44-B45-0.5') (Continued)

Lab Sample ID: 440-198803-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.6		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	15	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B30,B31,B33,B34-0.5')

Lab Sample ID: 440-198803-51

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.1	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	4.1	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	32	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B36,B37,B38,B39-0.5')

Lab Sample ID: 440-198803-56

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	4.2	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.0	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	22	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1(B52,B54,B55,B60-0.5')

Lab Sample ID: 440-198803-61

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	1.6	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	18		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	15		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	15	J	50	10	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1(B46,B47,B48,B51-0.5')

Lab Sample ID: 440-198803-6
Matrix: Solid
Date Collected: 12/19/17 07:30
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
4,4'-DDE	**5.2**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
4,4'-DDT	**3.5**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Chlordane (technical)	**24**	**J**	50	9.9	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Dieldrin	**2.3**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:18	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 15:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 115*	*12/28/17 17:19*	*12/29/17 15:18*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*12/28/17 17:19*	*12/29/17 15:18*	*1*

Client Sample ID: AOC1(B57,B58,B59,B61-0.5')

Lab Sample ID: 440-198803-11
Matrix: Solid
Date Collected: 12/19/17 07:45
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
4,4'-DDE	**5.8**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
4,4'-DDT	**3.6**	**J p**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Chlordane (technical)	**15**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:19	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:19	1

Client Sample ID: AOC1(B57,B58,B59,B61-0.5')

Lab Sample ID: 440-198803-11

Date Collected: 12/19/17 07:45

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 18:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 115*	*12/28/17 10:18*	*12/28/17 18:19*	*1*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*12/28/17 10:18*	*12/28/17 18:19*	*1*

Client Sample ID: AOC1(B62,B63,B64,B65,B66-0.5')

Lab Sample ID: 440-198803-17

Date Collected: 12/19/17 08:15

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
4,4'-DDE	**15**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
4,4'-DDT	**14**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Chlordane (technical)	**51**		50	10	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Dieldrin	**4.0**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:34	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 18:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*77*		*35 - 115*	*12/28/17 10:18*	*12/28/17 18:34*	*1*
DCB Decachlorobiphenyl (Surr)	*67*		*45 - 120*	*12/28/17 10:18*	*12/28/17 18:34*	*1*

Client Sample ID: AOC1(B67,B68,B69,B70,B71-0.5')

Lab Sample ID: 440-198803-23

Date Collected: 12/19/17 09:00

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
4,4'-DDE	**13**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
4,4'-DDT	**11**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Chlordane (technical)	**36**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 20:48	1

Client Sample ID: AOC1(B67,B68,B69,B70,B71-0.5')

Lab Sample ID: 440-198803-23

Date Collected: 12/19/17 09:00
Matrix: Solid
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Dieldrin	**2.5**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:48	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 20:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*94*		*35 - 115*	*12/28/17 10:18*	*12/28/17 20:48*	*1*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*12/28/17 10:18*	*12/28/17 20:48*	*1*

Client Sample ID: AOC1(B72,B73,B74,B75-0.5')

Lab Sample ID: 440-198803-28

Date Collected: 12/19/17 10:00
Matrix: Solid
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
4,4'-DDE	**9.3**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
4,4'-DDT	**8.0**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Chlordane (technical)	**44**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Dieldrin	**3.5**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 21:18	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 21:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*89*		*35 - 115*	*12/28/17 10:18*	*12/28/17 21:18*	*1*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*12/28/17 10:18*	*12/28/17 21:18*	*1*

Client Sample ID: AOC1(B76,B77,B78,B79,B80,B81-0.5')

Lab Sample ID: 440-198803-35

Date Collected: 12/19/17 13:45

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
4,4'-DDE	**18**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
4,4'-DDT	**7.5**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Chlordane (technical)	**14**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:04	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 19:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*86*		*35 - 115*	*12/28/17 10:18*	*12/28/17 19:04*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*45 - 120*	*12/28/17 10:18*	*12/28/17 19:04*	*1*

Client Sample ID: AOC1(B82,B83,B84,B85-0.5')

Lab Sample ID: 440-198803-40

Date Collected: 12/19/17 12:45

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
4,4'-DDE	**11**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
4,4'-DDT	**5.6**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:19	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:19	1

Client Sample ID: AOC1(B82,B83,B84,B85-0.5')

Lab Sample ID: 440-198803-40
Matrix: Solid
Date Collected: 12/19/17 12:45
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 19:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 115*	*12/28/17 10:18*	*12/28/17 19:19*	*1*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*12/28/17 10:18*	*12/28/17 19:19*	*1*

Client Sample ID: AOC1(B40,B41,B43,B44-B45-0.5')

Lab Sample ID: 440-198803-46
Matrix: Solid
Date Collected: 12/18/17 11:10
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
4,4'-DDE	**6.6**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Chlordane (technical)	**15**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:34	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 19:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 115*	*12/28/17 10:18*	*12/28/17 19:34*	*1*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*12/28/17 10:18*	*12/28/17 19:34*	*1*

Client Sample ID: AOC1(B30,B31,B33,B34-0.5')

Lab Sample ID: 440-198803-51
Matrix: Solid
Date Collected: 12/18/17 09:40
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
4,4'-DDE	**2.1**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
4,4'-DDT	**4.1**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Chlordane (technical)	**32**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 19:49	1

Client Sample ID: AOC1(B30,B31,B33,B34-0.5')

Lab Sample ID: 440-198803-51

Date Collected: 12/18/17 09:40

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 19:49	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 19:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*75*		*35 - 115*	*12/28/17 10:18*	*12/28/17 19:49*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*12/28/17 10:18*	*12/28/17 19:49*	*1*

Client Sample ID: AOC1(B36,B37,B38,B39-0.5')

Lab Sample ID: 440-198803-56

Date Collected: 12/18/17 12:10

Matrix: Solid

Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
4,4'-DDE	**4.2**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
4,4'-DDT	**3.0**	**J p**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Chlordane (technical)	**22**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 20:18	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 20:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*74*		*35 - 115*	*12/28/17 10:18*	*12/28/17 20:18*	*1*
DCB Decachlorobiphenyl (Surr)	*103*		*45 - 120*	*12/28/17 10:18*	*12/28/17 20:18*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Client Sample ID: AOC1(B52,B54,B55,B60-0.5') — **Lab Sample ID: 440-198803-61**
Date Collected: 12/18/17 14:05 — **Matrix: Solid**
Date Received: 12/20/17 10:59

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**1.6**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
4,4'-DDE	**18**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
4,4'-DDT	**15**		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Chlordane (technical)	**15**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 18:49	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 18:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*35 - 115*	*12/28/17 10:18*	*12/28/17 18:49*	*1*
DCB Decachlorobiphenyl (Surr)	*63*		*45 - 120*	*12/28/17 10:18*	*12/28/17 18:49*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (35-115)	DCB2 (45-120)								
440-198803-6	AOC1(B46,B47,B48,B51-0.5')	78	58								
440-198803-11	AOC1(B57,B58,B59,B61-0.5')	86	73								
440-198803-17	AOC1(B62,B63,B64,B65,B66-0.5')	77	67								
440-198803-23	AOC1(B67,B68,B69,B70,B71-0.5')	94	95								
440-198803-28	AOC1(B72,B73,B74,B75-0.5')	89	80								
440-198803-35	AOC1(B76,B77,B78,B79,B80,B81-0.5')	86	103								
440-198803-40	AOC1(B82,B83,B84,B85-0.5')	63	83								
440-198803-46	AOC1(B40,B41,B43,B44-B45-0.5')	63	51								
440-198803-51	AOC1(B30,B31,B33,B34-0.5')	75	63								
440-198803-56	AOC1(B36,B37,B38,B39-0.5')	74	103								
440-198803-61	AOC1(B52,B54,B55,B60-0.5')	81	63								
440-199041-E-1-E MS	Matrix Spike	71	54								
440-199041-E-1-F MSD	Matrix Spike Duplicate	69	52								
440-199094-A-7-A MS	Matrix Spike	75	59								
440-199094-A-7-B MSD	Matrix Spike Duplicate	76	57								
LCS 440-449003/2-A	Lab Control Sample	92	83								
LCS 440-449141/2-A	Lab Control Sample	109	90								
MB 440-449003/1-A	Method Blank	87	70								
MB 440-449141/1-A	Method Blank	113	89								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Client Sample ID: AOC1(B46,B47,B48,B51-0.5')
Lab Sample ID: 440-198803-6
Date Collected: 12/19/17 07:30
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.13 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 15:18	D1D	TAL IRV

Client Sample ID: AOC1(B57,B58,B59,B61-0.5')
Lab Sample ID: 440-198803-11
Date Collected: 12/19/17 07:45
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 18:19	D1D	TAL IRV

Client Sample ID: AOC1(B62,B63,B64,B65,B66-0.5')
Lab Sample ID: 440-198803-17
Date Collected: 12/19/17 08:15
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 18:34	D1D	TAL IRV

Client Sample ID: AOC1(B67,B68,B69,B70,B71-0.5')
Lab Sample ID: 440-198803-23
Date Collected: 12/19/17 09:00
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 20:48	D1D	TAL IRV

Client Sample ID: AOC1(B72,B73,B74,B75-0.5')
Lab Sample ID: 440-198803-28
Date Collected: 12/19/17 10:00
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			14.99 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 21:18	D1D	TAL IRV

Client Sample ID: AOC1(B76,B77,B78,B79,B80,B81-0.5')
Lab Sample ID: 440-198803-35
Date Collected: 12/19/17 13:45
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 19:04	D1D	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Client Sample ID: AOC1(B82,B83,B84,B85-0.5')
Lab Sample ID: 440-198803-40
Date Collected: 12/19/17 12:45
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 19:19	D1D	TAL IRV

Client Sample ID: AOC1(B40,B41,B43,B44-B45-0.5')
Lab Sample ID: 440-198803-46
Date Collected: 12/18/17 11:10
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 19:34	D1D	TAL IRV

Client Sample ID: AOC1(B30,B31,B33,B34-0.5')
Lab Sample ID: 440-198803-51
Date Collected: 12/18/17 09:40
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 19:49	D1D	TAL IRV

Client Sample ID: AOC1(B36,B37,B38,B39-0.5')
Lab Sample ID: 440-198803-56
Date Collected: 12/18/17 12:10
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 20:18	D1D	TAL IRV

Client Sample ID: AOC1(B52,B54,B55,B60-0.5')
Lab Sample ID: 440-198803-61
Date Collected: 12/18/17 14:05
Matrix: Solid
Date Received: 12/20/17 10:59

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 18:49	D1D	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-449003/1-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 115*	*12/28/17 10:18*	*12/28/17 16:36*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/28/17 10:18*	*12/28/17 16:36*	*1*

Lab Sample ID: LCS 440-449003/2-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.7		ug/Kg		95	59 - 118
4,4'-DDE	13.3	12.1		ug/Kg		91	55 - 115
4,4'-DDT	13.3	12.8		ug/Kg		96	51 - 131
Aldrin	13.3	11.9		ug/Kg		90	46 - 115
alpha-BHC	13.3	11.7		ug/Kg		87	38 - 115
beta-BHC	13.3	11.6		ug/Kg		87	46 - 115
delta-BHC	13.3	11.9		ug/Kg		89	52 - 115
Dieldrin	13.3	12.3		ug/Kg		92	57 - 115
Endosulfan I	13.3	11.7		ug/Kg		88	56 - 115
Endosulfan II	13.3	11.4		ug/Kg		86	49 - 117
Endosulfan sulfate	13.3	11.6		ug/Kg		87	54 - 115
Endrin	13.3	12.1		ug/Kg		91	56 - 120
Endrin aldehyde	13.3	10.5		ug/Kg		78	41 - 115
Endrin ketone	13.3	12.1		ug/Kg		91	54 - 119
gamma-BHC (Lindane)	13.3	11.8		ug/Kg		89	49 - 115
Heptachlor	13.3	11.9		ug/Kg		90	52 - 115
Heptachlor epoxide	13.3	11.7		ug/Kg		87	38 - 128
Methoxychlor	13.3	14.2		ug/Kg		107	46 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*92*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: 440-199041-E-1-E MS
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.3	8.95		ug/Kg		67	40 - 130
4,4'-DDE	4.1	J	13.3	12.9		ug/Kg		67	35 - 130
4,4'-DDT	2.7	J	13.3	12.5		ug/Kg		73	35 - 130
Aldrin	ND		13.3	8.89		ug/Kg		67	40 - 115
alpha-BHC	ND		13.3	8.60		ug/Kg		65	40 - 115
beta-BHC	ND		13.3	8.51		ug/Kg		64	40 - 120
delta-BHC	ND		13.3	8.57	J	ug/Kg		64	45 - 120
Dieldrin	ND		13.3	8.73		ug/Kg		65	40 - 125
Endosulfan I	ND		13.3	8.28		ug/Kg		62	40 - 120
Endosulfan II	ND		13.3	7.61		ug/Kg		57	40 - 125
Endosulfan sulfate	ND	F1	13.3	16.8	F1	ug/Kg		126	45 - 120
Endrin	ND		13.3	8.54		ug/Kg		64	45 - 125
Endrin aldehyde	ND		13.3	6.57	p	ug/Kg		49	30 - 120
Endrin ketone	ND		13.3	7.66		ug/Kg		57	40 - 120
gamma-BHC (Lindane)	ND		13.3	8.59		ug/Kg		64	40 - 120
Heptachlor	ND		13.3	8.53		ug/Kg		64	40 - 115
Heptachlor epoxide	ND		13.3	8.51		ug/Kg		64	45 - 115
Methoxychlor	ND		13.3	9.26		ug/Kg		69	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*71*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*

Lab Sample ID: 440-199041-E-1-F MSD
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.3	8.33		ug/Kg		62	40 - 130	7	30
4,4'-DDE	4.1	J	13.3	12.5		ug/Kg		64	35 - 130	3	30
4,4'-DDT	2.7	J	13.3	11.5		ug/Kg		66	35 - 130	8	30
Aldrin	ND		13.3	8.50		ug/Kg		64	40 - 115	5	30
alpha-BHC	ND		13.3	8.27		ug/Kg		62	40 - 115	4	30
beta-BHC	ND		13.3	8.06		ug/Kg		60	40 - 120	5	30
delta-BHC	ND		13.3	8.20	J	ug/Kg		61	45 - 120	4	30
Dieldrin	ND		13.3	8.25		ug/Kg		62	40 - 125	6	30
Endosulfan I	ND		13.3	7.64		ug/Kg		57	40 - 120	8	30
Endosulfan II	ND		13.3	7.04		ug/Kg		53	40 - 125	8	30
Endosulfan sulfate	ND	F1	13.3	18.8	F1	ug/Kg		141	45 - 120	11	30
Endrin	ND		13.3	8.04		ug/Kg		60	45 - 125	6	30
Endrin aldehyde	ND		13.3	5.94	p	ug/Kg		45	30 - 120	10	30
Endrin ketone	ND		13.3	6.94		ug/Kg		52	40 - 120	10	30
gamma-BHC (Lindane)	ND		13.3	7.98		ug/Kg		60	40 - 120	7	30
Heptachlor	ND		13.3	7.89		ug/Kg		59	40 - 115	8	30
Heptachlor epoxide	ND		13.3	8.00		ug/Kg		60	45 - 115	6	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199041-E-1-F MSD
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methoxychlor	ND		13.3	7.31		ug/Kg		55	40 - 135	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Lab Sample ID: MB 440-449141/1-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*35 - 115*	*12/28/17 17:19*	*12/29/17 14:03*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*12/28/17 17:19*	*12/29/17 14:03*	*1*

Lab Sample ID: LCS 440-449141/2-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.8		ug/Kg		96	59 - 118
4,4'-DDE	13.3	14.3		ug/Kg		107	55 - 115
4,4'-DDT	13.3	13.1		ug/Kg		98	51 - 131
Aldrin	13.3	14.0		ug/Kg		105	46 - 115
alpha-BHC	13.3	13.2		ug/Kg		99	38 - 115
beta-BHC	13.3	12.6		ug/Kg		94	46 - 115
delta-BHC	13.3	12.9		ug/Kg		97	52 - 115

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-449141/2-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Dieldrin	13.3	13.5		ug/Kg		101	57 - 115
Endosulfan I	13.3	13.1		ug/Kg		99	56 - 115
Endosulfan II	13.3	12.2		ug/Kg		92	49 - 117
Endosulfan sulfate	13.3	12.5		ug/Kg		94	54 - 115
Endrin	13.3	12.1		ug/Kg		90	56 - 120
Endrin aldehyde	13.3	11.5		ug/Kg		86	41 - 115
Endrin ketone	13.3	11.9		ug/Kg		89	54 - 119
gamma-BHC (Lindane)	13.3	12.7		ug/Kg		95	49 - 115
Heptachlor	13.3	10.6		ug/Kg		80	52 - 115
Heptachlor epoxide	13.3	12.1		ug/Kg		91	38 - 128
Methoxychlor	13.3	13.2		ug/Kg		99	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*

Lab Sample ID: 440-199094-A-7-A MS
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	8.40		ug/Kg		64	40 - 130
4,4'-DDE	14		13.2	24.2		ug/Kg		74	35 - 130
4,4'-DDT	7.1		13.2	14.7		ug/Kg		58	35 - 130
Aldrin	ND		13.2	8.87		ug/Kg		67	40 - 115
alpha-BHC	ND		13.2	8.21		ug/Kg		62	40 - 115
beta-BHC	ND		13.2	7.52		ug/Kg		57	40 - 120
delta-BHC	ND		13.2	6.67	J	ug/Kg		51	45 - 120
Dieldrin	2.0	J	13.2	9.93		ug/Kg		61	40 - 125
Endosulfan I	ND		13.2	7.98		ug/Kg		61	40 - 120
Endosulfan II	ND		13.2	7.04		ug/Kg		53	40 - 125
Endosulfan sulfate	ND		13.2	7.50	J	ug/Kg		57	45 - 120
Endrin	ND		13.2	7.82		ug/Kg		59	45 - 125
Endrin aldehyde	ND		13.2	6.29		ug/Kg		48	30 - 120
Endrin ketone	ND		13.2	7.06		ug/Kg		54	40 - 120
gamma-BHC (Lindane)	ND		13.2	7.53		ug/Kg		57	40 - 120
Heptachlor	ND		13.2	8.01		ug/Kg		61	40 - 115
Heptachlor epoxide	ND		13.2	7.67		ug/Kg		58	45 - 115
Methoxychlor	ND		13.2	7.22		ug/Kg		55	40 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199094-A-7-B MSD
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.2	9.00		ug/Kg		68	40 - 130	7	30
4,4'-DDE	14		13.2	26.2		ug/Kg		90	35 - 130	8	30
4,4'-DDT	7.1		13.2	14.7		ug/Kg		57	35 - 130	1	30
Aldrin	ND		13.2	9.21		ug/Kg		70	40 - 115	4	30
alpha-BHC	ND		13.2	8.41		ug/Kg		64	40 - 115	2	30
beta-BHC	ND		13.2	8.23		ug/Kg		62	40 - 120	9	30
delta-BHC	ND		13.2	6.70	J	ug/Kg		51	45 - 120	1	30
Dieldrin	2.0	J	13.2	10.7		ug/Kg		66	40 - 125	7	30
Endosulfan I	ND		13.2	8.29		ug/Kg		63	40 - 120	4	30
Endosulfan II	ND		13.2	7.07		ug/Kg		53	40 - 125	0	30
Endosulfan sulfate	ND		13.2	7.47	J	ug/Kg		57	45 - 120	0	30
Endrin	ND		13.2	8.22		ug/Kg		62	45 - 125	5	30
Endrin aldehyde	ND		13.2	6.30		ug/Kg		48	30 - 120	0	30
Endrin ketone	ND		13.2	7.20		ug/Kg		54	40 - 120	2	30
gamma-BHC (Lindane)	ND		13.2	7.94		ug/Kg		60	40 - 120	5	30
Heptachlor	ND		13.2	8.85		ug/Kg		67	40 - 115	10	30
Heptachlor epoxide	ND		13.2	8.33		ug/Kg		63	45 - 115	8	30
Methoxychlor	ND		13.2	6.24		ug/Kg		47	40 - 135	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*

GC Semi VOA

Prep Batch: 449003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198803-11	AOC1(B57,B58,B59,B61-0.5')	Total/NA	Solid	3546	
440-198803-17	AOC1(B62,B63,B64,B65,B66-0.5')	Total/NA	Solid	3546	
440-198803-23	AOC1(B67,B68,B69,B70,B71-0.5')	Total/NA	Solid	3546	
440-198803-28	AOC1(B72,B73,B74,B75-0.5')	Total/NA	Solid	3546	
440-198803-35	AOC1(B76,B77,B78,B79,B80,B81-0.5')	Total/NA	Solid	3546	
440-198803-40	AOC1(B82,B83,B84,B85-0.5')	Total/NA	Solid	3546	
440-198803-46	AOC1(B40,B41,B43,B44-B45-0.5')	Total/NA	Solid	3546	
440-198803-51	AOC1(B30,B31,B33,B34-0.5')	Total/NA	Solid	3546	
440-198803-56	AOC1(B36,B37,B38,B39-0.5')	Total/NA	Solid	3546	
440-198803-61	AOC1(B52,B54,B55,B60-0.5')	Total/NA	Solid	3546	
MB 440-449003/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199041-E-1-E MS	Matrix Spike	Total/NA	Solid	3546	
440-199041-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198803-11	AOC1(B57,B58,B59,B61-0.5')	Total/NA	Solid	8081A	449003
440-198803-17	AOC1(B62,B63,B64,B65,B66-0.5')	Total/NA	Solid	8081A	449003
440-198803-23	AOC1(B67,B68,B69,B70,B71-0.5')	Total/NA	Solid	8081A	449003
440-198803-28	AOC1(B72,B73,B74,B75-0.5')	Total/NA	Solid	8081A	449003
440-198803-35	AOC1(B76,B77,B78,B79,B80,B81-0.5')	Total/NA	Solid	8081A	449003
440-198803-40	AOC1(B82,B83,B84,B85-0.5')	Total/NA	Solid	8081A	449003
440-198803-46	AOC1(B40,B41,B43,B44-B45-0.5')	Total/NA	Solid	8081A	449003
440-198803-51	AOC1(B30,B31,B33,B34-0.5')	Total/NA	Solid	8081A	449003
440-198803-56	AOC1(B36,B37,B38,B39-0.5')	Total/NA	Solid	8081A	449003
440-198803-61	AOC1(B52,B54,B55,B60-0.5')	Total/NA	Solid	8081A	449003
MB 440-449003/1-A	Method Blank	Total/NA	Solid	8081A	449003
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	8081A	449003
440-199041-E-1-E MS	Matrix Spike	Total/NA	Solid	8081A	449003
440-199041-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	449003

Prep Batch: 449141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198803-6	AOC1(B46,B47,B48,B51-0.5')	Total/NA	Solid	3546	
MB 440-449141/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199094-A-7-A MS	Matrix Spike	Total/NA	Solid	3546	
440-199094-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-198803-6	AOC1(B46,B47,B48,B51-0.5')	Total/NA	Solid	8081A	449141
MB 440-449141/1-A	Method Blank	Total/NA	Solid	8081A	449141
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	8081A	449141
440-199094-A-7-A MS	Matrix Spike	Total/NA	Solid	8081A	449141
440-199094-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	449141

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F1	MS and/or MSD Recovery is outside acceptance limits.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-198803-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181119

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: N. Paulson	Date: 12/19/17	COC No:
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact: P. Mady	Carrier:	9 of 9 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below _____			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS TEA	☐ 1 week			
Site: Reseda High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS/MSD (Y/N)	Sample Specific Notes:
AOC1-(B46, B47, B48, B50, B51)	12/19/17		G	C	5		X	lab to composite 0.5' sample AOC1-
AOC1-(B57, B58, B59, B61)			G	C	5		X	lab to composite 0.5' sample AOC1-
AOC1-(B62, B63, B64, B65, B66)			G	C	5		X	lab to composite 0.5' sample AOC1-
AOC1-(B67, B68, B69, B70, B71)			G	C	5		X	lab to composite 0.5' sample AOC1-
AOC1-(B72, B73, B74, B75)			G	C	5		X	lab to composite 0.5' sample AOC1-
AOC1-(B76, B77, B78, B79, B80, B81)	12/19/17		G	C	5		X	lab to composite 0.5' sample to AOC1-
AOC1-(B82, B83, B84, B85)	12/19/17		G	C	5		X	lab to composite 0.5' sample to AOC1-

440-198803 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

6.1 5.9 5.9 5.7

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: 5.7	Therm ID No.: 84

Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	Parsons	12/19/17		DSC	12/19/17 3:55 pm
Relinquished by:	Company:	Date/Time:	Received by:	Company:	Date/Time:
	DSC	12/19/17 6:50			
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company:	Date/Time:
				TA-I	12/19/17 1850

Page 26 of 28
12/21/2017

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 181161

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☒ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nanette P.	Date: 12-18-17	COC No:
Company Name: JD Parsons	Tel/Fax: 626-440-6133	Lab Contact: Kelly Aylor	Carrier:	8 of 8 COCs
Address: 100 west walnut St.	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena, ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626-440-6133	TAT if different from Below STD			Walk-in Client:
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Rosa HS PBA	☐ 1 week			
Site: Rosa High School	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	Arsenic	Lead	PCBs	Pesticides	OCP	Sample Specific Notes:
AOC1-B64-D0.5	12/18/17	1505	G	S	1			X	X				
AOC1-B64 D1.5	12/18/17	1510	G	S	1					-	X	X	Hold
AOC1-B64 D2.5	12/18/17	1515	G	S	1						X	X	Hold
AOC1-B58-D0.5	12/18/17	1520	G	S	1			X	X				
AOC1-B58-D1.5	12/18/17	1525	G	S	1						X	X	Hold
AOC1-B58-D2.5	12/18/17	1530	G	S	1						X	X	Hold
E12 1817	12/18/17	1535	G	S	2								
AOC1-(B40-B41-B43-B44-B45)	12/18/17		6	S								X	lab to composite sample AOC-
AOC1-(B30-B31-B33-B34)	↓		6	S								X	lab to composite sample AOC-
AOC1-(B36-B37-B38-B39)			6	S								X	lab to composite sample AOC1-
AOC1-(B52-B54-B55-B60)	↓		6	S								X	lab to composite sample AOC1-

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for_____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____ Therm ID No.:_____			
Relinquished by:	Company: Parsons	Date/Time: 12-19-17 1000	Received by:	Company: TA	Date/Time: 12/19/17 1000
Relinquished by:	Company: TA	Date/Time: 12/19/17 1310	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA	Date/Time: 12/19/17 1310

Mata, Patty

From: King, Justin <Justin.King@parsons.com>
Sent: Thursday, December 28, 2017 12:29 PM
To: Mata, Patty
Subject: RE: Missing B50 for composite for TestAmerica files from 440-198803-1 LAUSD Reseda H.S., CA

-External Email-

Patty
We did not collect a sample at B50. Please omit B50 from composite.
Thanks
Justin

From: Mata, Patty [mailto:patty.mata@testamericainc.com]
Sent: Thursday, December 28, 2017 11:40 AM
To: King, Justin <Justin.King@parsons.com>
Subject: Missing B50 for composite for TestAmerica files from 440-198803-1 LAUSD Reseda H.S., CA

Hello,

We are missing the discrete B50 sample set but the attached COC for job 440-198803-1; LAUSD Reseda H.S., CA has request to put this sample into composite. Please let me know.

Please feel free to contact me if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

PATTY MATA
Project Manager

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [419287]
Attachments: 1

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-198803-1

Login Number: 198803
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	See case narrative.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199071-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 4:37:36 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 11
Method Summary 12
Lab Chronicle 13
QC Sample Results 15
QC Association Summary 20
Definitions/Glossary 21
Certification Summary 22
Chain of Custody 23
Receipt Checklists 24

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199071-6	AOC1-(B14,B15,B16,B17,B18)-0.5'	Solid	12/20/17 08:20	12/20/17 18:25
440-199071-11	AOC1-(B19,B20,B21,B22)-0.5'	Solid	12/20/17 07:20	12/20/17 18:25
440-199071-18	AOC1-(B24,B25,B26,B27,B28,B29)-0.5'	Solid	12/20/17 10:10	12/20/17 18:25
440-199071-23	AOC1-(B19,B20,B21,B22)-Dup-0.5'	Solid	12/20/17 07:20	12/20/17 18:25
440-199071-29	AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'	Solid	12/20/17 08:35	12/20/17 18:25
440-199071-35	AOC1-(B1,B2,B3,B4,B5)-0.5'	Solid	12/20/17 12:55	12/20/17 18:25
440-199071-40	AOC1-(B6,B8,B9,B10)-0.5'	Solid	12/20/17 13:10	12/20/17 18:25
440-199071-45	AOC1-(B11,B12,B13,B23)-0.5'	Solid	12/20/17 13:25	12/20/17 18:25

Job ID: 440-199071-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199071-1

Comments
No additional comments.

Receipt
The samples were received on 12/20/2017 6:25 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 2.0º C and 2.7º C.

GC Semi VOA
Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-449003 and analytical batch 440-449006 were outside control limits for Endosulfan sulfate. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Method(s) 8081A: Surrogate recovery for the following samples were outside control limits: AOC1-(B6,B8,B9,B10) (440-199071-40). Evidence of matrix interference is present, with dark-colored extract; therefore, re-extraction and re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-0.5' — Lab Sample ID: 440-199071-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.3	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.6	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B19,B20,B21,B22)-0.5' — Lab Sample ID: 440-199071-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.4		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.3		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	14	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B24,B25,B26,B27,B28,B29)-0.5' — Lab Sample ID: 440-199071-18

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	1.9	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	4.6	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B19,B20,B21,B22)-Dup-0.5' — Lab Sample ID: 440-199071-23

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	3.1	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.4	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	14	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-Dup-0.5' — Lab Sample ID: 440-199071-29

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.8	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	1.8	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B1,B2,B3,B4,B5)-0.5' — Lab Sample ID: 440-199071-35

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	13		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	22		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	34	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B6,B8,B9,B10)-0.5' — Lab Sample ID: 440-199071-40

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.8		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	1.8	J p	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	12	J	50	10	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B11,B12,B13,B23)-0.5' — Lab Sample ID: 440-199071-45

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	3.4	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.8	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-0.5'

Lab Sample ID: 440-199071-6

Date Collected: 12/20/17 08:20
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
4,4'-DDE	**2.3**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
4,4'-DDT	**2.6**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:22	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 02:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*69*		*35 - 115*	*12/28/17 10:18*	*12/29/17 02:22*	*1*
DCB Decachlorobiphenyl (Surr)	*64*		*45 - 120*	*12/28/17 10:18*	*12/29/17 02:22*	*1*

Client Sample ID: AOC1-(B19,B20,B21,B22)-0.5'

Lab Sample ID: 440-199071-11

Date Collected: 12/20/17 07:20
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
4,4'-DDE	**6.4**		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
4,4'-DDT	**6.3**		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Chlordane (technical)	**14**	**J**	50	10	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:34	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:34	1

Client Sample ID: AOC1-(B19,B20,B21,B22)-0.5'

Lab Sample ID: 440-199071-11

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 03:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*67*		*35 - 115*	*12/28/17 10:18*	*12/29/17 03:34*	*1*
DCB Decachlorobiphenyl (Surr)	*69*		*45 - 120*	*12/28/17 10:18*	*12/29/17 03:34*	*1*

Client Sample ID: AOC1-(B24,B25,B26,B27,B28,B29)-0.5'

Lab Sample ID: 440-199071-18

Date Collected: 12/20/17 10:10

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
4,4'-DDE	**1.9**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
4,4'-DDT	**4.6**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:36	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 02:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*71*		*35 - 115*	*12/28/17 10:18*	*12/29/17 02:36*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*12/28/17 10:18*	*12/29/17 02:36*	*1*

Client Sample ID: AOC1-(B19,B20,B21,B22)-Dup-0.5'

Lab Sample ID: 440-199071-23

Date Collected: 12/20/17 07:20

Matrix: Solid

Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
4,4'-DDE	**3.1**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
4,4'-DDT	**2.4**	**J p**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Chlordane (technical)	**14**	**J**	50	10	ug/Kg		12/28/17 10:18	12/29/17 04:03	1

Client Sample ID: AOC1-(B19,B20,B21,B22)-Dup-0.5'

Lab Sample ID: 440-199071-23

Date Collected: 12/20/17 07:20
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 04:03	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 04:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*72*		*35 - 115*	*12/28/17 10:18*	*12/29/17 04:03*	*1*
DCB Decachlorobiphenyl (Surr)	*112*		*45 - 120*	*12/28/17 10:18*	*12/29/17 04:03*	*1*

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'

Lab Sample ID: 440-199071-29

Date Collected: 12/20/17 08:35
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
4,4'-DDE	**2.8**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
4,4'-DDT	**1.8**	**J p**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 02:51	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 115*	*12/28/17 10:18*	*12/29/17 02:51*	*1*
DCB Decachlorobiphenyl (Surr)	*58*		*45 - 120*	*12/28/17 10:18*	*12/29/17 02:51*	*1*

Client Sample ID: AOC1-(B1,B2,B3,B4,B5)-0.5'

Lab Sample ID: 440-199071-35

Date Collected: 12/20/17 12:55
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
4,4'-DDE	**13**		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
4,4'-DDT	**22**		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Chlordane (technical)	**34**	**J**	50	10	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:05	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 03:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*37*		*35 - 115*	*12/28/17 10:18*	*12/29/17 03:05*	*1*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*12/28/17 10:18*	*12/29/17 03:05*	*1*

Client Sample ID: AOC1-(B6,B8,B9,B10)-0.5'

Lab Sample ID: 440-199071-40

Date Collected: 12/20/17 13:10
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
4,4'-DDE	**6.8**		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
4,4'-DDT	**1.8**	**J p**	5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Chlordane (technical)	**12**	**J**	50	10	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/29/17 03:20	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/29/17 03:20	1

Client Sample ID: AOC1-(B6,B8,B9,B10)-0.5'

Lab Sample ID: 440-199071-40
Date Collected: 12/20/17 13:10
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/29/17 03:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*41*		*35 - 115*	*12/28/17 10:18*	*12/29/17 03:20*	*1*
DCB Decachlorobiphenyl (Surr)	*41*	*X*	*45 - 120*	*12/28/17 10:18*	*12/29/17 03:20*	*1*

Client Sample ID: AOC1-(B11,B12,B13,B23)-0.5'

Lab Sample ID: 440-199071-45
Date Collected: 12/20/17 13:25
Matrix: Solid
Date Received: 12/20/17 18:25

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
4,4'-DDE	**3.4**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
4,4'-DDT	**3.8**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:17	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 16:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*63*		*35 - 115*	*12/28/17 17:19*	*12/29/17 16:17*	*1*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*12/28/17 17:19*	*12/29/17 16:17*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)											
Lab Sample ID	Client Sample ID	TCX2 (35-115)	DCB2 (45-120)										
440-199041-E-1-E MS	Matrix Spike	71	54										
440-199041-E-1-F MSD	Matrix Spike Duplicate	69	52										
440-199071-6	AOC1-(B14,B15,B16,B17,B18)-0.5'	69	64										
440-199071-11	AOC1-(B19,B20,B21,B22)-0.5'	67	69										
440-199071-18	AOC1-(B24,B25,B26,B27,B28,B29)-0.5'	71	58										
440-199071-23	AOC1-(B19,B20,B21,B22)-Dup-0.5'	72	112										
440-199071-29	AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'	58	58										
440-199071-35	AOC1-(B1,B2,B3,B4,B5)-0.5'	37	48										
440-199071-40	AOC1-(B6,B8,B9,B10)-0.5'	41	41 X										
440-199071-45	AOC1-(B11,B12,B13,B23)-0.5'	63	46										
440-199094-A-7-A MS	Matrix Spike	75	59										
440-199094-A-7-B MSD	Matrix Spike Duplicate	76	57										
LCS 440-449003/2-A	Lab Control Sample	92	83										
LCS 440-449141/2-A	Lab Control Sample	109	90										
MB 440-449003/1-A	Method Blank	87											
MB 440-449141/1-A	Method Blank	113	89										

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-0.5'
Lab Sample ID: 440-199071-6
Date Collected: 12/20/17 08:20
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 02:22	D1D	TAL IRV

Client Sample ID: AOC1-(B19,B20,B21,B22)-0.5'
Lab Sample ID: 440-199071-11
Date Collected: 12/20/17 07:20
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 03:34	D1D	TAL IRV

Client Sample ID: AOC1-(B24,B25,B26,B27,B28,B29)-0.5'
Lab Sample ID: 440-199071-18
Date Collected: 12/20/17 10:10
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 02:36	D1D	TAL IRV

Client Sample ID: AOC1-(B19,B20,B21,B22)-Dup-0.5'
Lab Sample ID: 440-199071-23
Date Collected: 12/20/17 07:20
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 04:03	D1D	TAL IRV

Client Sample ID: AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'
Lab Sample ID: 440-199071-29
Date Collected: 12/20/17 08:35
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 02:51	D1D	TAL IRV

Client Sample ID: AOC1-(B1,B2,B3,B4,B5)-0.5'
Lab Sample ID: 440-199071-35
Date Collected: 12/20/17 12:55
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.02 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 03:05	D1D	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Client Sample ID: AOC1-(B6,B8,B9,B10)-0.5'

Lab Sample ID: 440-199071-40

Date Collected: 12/20/17 13:10
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449071	12/29/17 03:20	D1D	TAL IRV

Client Sample ID: AOC1-(B11,B12,B13,B23)-0.5'

Lab Sample ID: 440-199071-45

Date Collected: 12/20/17 13:25
Matrix: Solid
Date Received: 12/20/17 18:25

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 16:17	D1D	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-449003/1-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 115*	*12/28/17 10:18*	*12/28/17 16:36*	*1*

Lab Sample ID: LCS 440-449003/2-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.7		ug/Kg		95	59 - 118
4,4'-DDE	13.3	12.1		ug/Kg		91	55 - 115
4,4'-DDT	13.3	12.8		ug/Kg		96	51 - 131
Aldrin	13.3	11.9		ug/Kg		90	46 - 115
alpha-BHC	13.3	11.7		ug/Kg		87	38 - 115
beta-BHC	13.3	11.6		ug/Kg		87	46 - 115
delta-BHC	13.3	11.9		ug/Kg		89	52 - 115
Dieldrin	13.3	12.3		ug/Kg		92	57 - 115
Endosulfan I	13.3	11.7		ug/Kg		88	56 - 115
Endosulfan II	13.3	11.4		ug/Kg		86	49 - 117
Endosulfan sulfate	13.3	11.6		ug/Kg		87	54 - 115
Endrin	13.3	12.1		ug/Kg		91	56 - 120
Endrin aldehyde	13.3	10.5		ug/Kg		78	41 - 115
Endrin ketone	13.3	12.1		ug/Kg		91	54 - 119
gamma-BHC (Lindane)	13.3	11.8		ug/Kg		89	49 - 115
Heptachlor	13.3	11.9		ug/Kg		90	52 - 115
Heptachlor epoxide	13.3	11.7		ug/Kg		87	38 - 128
Methoxychlor	13.3	14.2		ug/Kg		107	46 - 146

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-449003/2-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449003

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	92		35 - 115
DCB Decachlorobiphenyl (Surr)	83		45 - 120

Lab Sample ID: 440-199041-E-1-E MS
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.3	8.95		ug/Kg		67	40 - 130
4,4'-DDE	4.1	J	13.3	12.9		ug/Kg		67	35 - 130
4,4'-DDT	2.7	J	13.3	12.5		ug/Kg		73	35 - 130
Aldrin	ND		13.3	8.89		ug/Kg		67	40 - 115
alpha-BHC	ND		13.3	8.60		ug/Kg		65	40 - 115
beta-BHC	ND		13.3	8.51		ug/Kg		64	40 - 120
delta-BHC	ND		13.3	8.57	J	ug/Kg		64	45 - 120
Dieldrin	ND		13.3	8.73		ug/Kg		65	40 - 125
Endosulfan I	ND		13.3	8.28		ug/Kg		62	40 - 120
Endosulfan II	ND		13.3	7.61		ug/Kg		57	40 - 125
Endosulfan sulfate	ND	F1	13.3	16.8	F1	ug/Kg		126	45 - 120
Endrin	ND		13.3	8.54		ug/Kg		64	45 - 125
Endrin aldehyde	ND		13.3	6.57	p	ug/Kg		49	30 - 120
Endrin ketone	ND		13.3	7.66		ug/Kg		57	40 - 120
gamma-BHC (Lindane)	ND		13.3	8.59		ug/Kg		64	40 - 120
Heptachlor	ND		13.3	8.53		ug/Kg		64	40 - 115
Heptachlor epoxide	ND		13.3	8.51		ug/Kg		64	45 - 115
Methoxychlor	ND		13.3	9.26		ug/Kg		69	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	71		35 - 115
DCB Decachlorobiphenyl (Surr)	54		45 - 120

Lab Sample ID: 440-199041-E-1-F MSD
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.3	8.33		ug/Kg		62	40 - 130	7	30
4,4'-DDE	4.1	J	13.3	12.5		ug/Kg		64	35 - 130	3	30
4,4'-DDT	2.7	J	13.3	11.5		ug/Kg		66	35 - 130	8	30
Aldrin	ND		13.3	8.50		ug/Kg		64	40 - 115	5	30
alpha-BHC	ND		13.3	8.27		ug/Kg		62	40 - 115	4	30
beta-BHC	ND		13.3	8.06		ug/Kg		60	40 - 120	5	30
delta-BHC	ND		13.3	8.20	J	ug/Kg		61	45 - 120	4	30
Dieldrin	ND		13.3	8.25		ug/Kg		62	40 - 125	6	30
Endosulfan I	ND		13.3	7.64		ug/Kg		57	40 - 120	8	30
Endosulfan II	ND		13.3	7.04		ug/Kg		53	40 - 125	8	30
Endosulfan sulfate	ND	F1	13.3	18.8	F1	ug/Kg		141	45 - 120	11	30
Endrin	ND		13.3	8.04		ug/Kg		60	45 - 125	6	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199041-E-1-F MSD
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Endrin aldehyde	ND		13.3	5.94	p	ug/Kg		45	30 - 120	10	30
Endrin ketone	ND		13.3	6.94		ug/Kg		52	40 - 120	10	30
gamma-BHC (Lindane)	ND		13.3	7.98		ug/Kg		60	40 - 120	7	30
Heptachlor	ND		13.3	7.89		ug/Kg		59	40 - 115	8	30
Heptachlor epoxide	ND		13.3	8.00		ug/Kg		60	45 - 115	6	30
Methoxychlor	ND		13.3	7.31		ug/Kg		55	40 - 135	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Lab Sample ID: MB 440-449141/1-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*35 - 115*	*12/28/17 17:19*	*12/29/17 14:03*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*12/28/17 17:19*	*12/29/17 14:03*	*1*

Lab Sample ID: LCS 440-449141/2-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.8		ug/Kg		96	59 - 118
4,4'-DDE	13.3	14.3		ug/Kg		107	55 - 115

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-449141/2-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDT	13.3	13.1		ug/Kg		98	51 - 131
Aldrin	13.3	14.0		ug/Kg		105	46 - 115
alpha-BHC	13.3	13.2		ug/Kg		99	38 - 115
beta-BHC	13.3	12.6		ug/Kg		94	46 - 115
delta-BHC	13.3	12.9		ug/Kg		97	52 - 115
Dieldrin	13.3	13.5		ug/Kg		101	57 - 115
Endosulfan I	13.3	13.1		ug/Kg		99	56 - 115
Endosulfan II	13.3	12.2		ug/Kg		92	49 - 117
Endosulfan sulfate	13.3	12.5		ug/Kg		94	54 - 115
Endrin	13.3	12.1		ug/Kg		90	56 - 120
Endrin aldehyde	13.3	11.5		ug/Kg		86	41 - 115
Endrin ketone	13.3	11.9		ug/Kg		89	54 - 119
gamma-BHC (Lindane)	13.3	12.7		ug/Kg		95	49 - 115
Heptachlor	13.3	10.6		ug/Kg		80	52 - 115
Heptachlor epoxide	13.3	12.1		ug/Kg		91	38 - 128
Methoxychlor	13.3	13.2		ug/Kg		99	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*109*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*

Lab Sample ID: 440-199094-A-7-A MS
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	8.40		ug/Kg		64	40 - 130
4,4'-DDE	14		13.2	24.2		ug/Kg		74	35 - 130
4,4'-DDT	7.1		13.2	14.7		ug/Kg		58	35 - 130
Aldrin	ND		13.2	8.87		ug/Kg		67	40 - 115
alpha-BHC	ND		13.2	8.21		ug/Kg		62	40 - 115
beta-BHC	ND		13.2	7.52		ug/Kg		57	40 - 120
delta-BHC	ND		13.2	6.67	J	ug/Kg		51	45 - 120
Dieldrin	2.0	J	13.2	9.93		ug/Kg		61	40 - 125
Endosulfan I	ND		13.2	7.98		ug/Kg		61	40 - 120
Endosulfan II	ND		13.2	7.04		ug/Kg		53	40 - 125
Endosulfan sulfate	ND		13.2	7.50	J	ug/Kg		57	45 - 120
Endrin	ND		13.2	7.82		ug/Kg		59	45 - 125
Endrin aldehyde	ND		13.2	6.29		ug/Kg		48	30 - 120
Endrin ketone	ND		13.2	7.06		ug/Kg		54	40 - 120
gamma-BHC (Lindane)	ND		13.2	7.53		ug/Kg		57	40 - 120
Heptachlor	ND		13.2	8.01		ug/Kg		61	40 - 115
Heptachlor epoxide	ND		13.2	7.67		ug/Kg		58	45 - 115
Methoxychlor	ND		13.2	7.22		ug/Kg		55	40 - 135

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*75*		*35 - 115*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199094-A-7-A MS
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 449141

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	59		45 - 120

Lab Sample ID: 440-199094-A-7-B MSD
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.2	9.00		ug/Kg		68	40 - 130	7	30
4,4'-DDE	14		13.2	26.2		ug/Kg		90	35 - 130	8	30
4,4'-DDT	7.1		13.2	14.7		ug/Kg		57	35 - 130	1	30
Aldrin	ND		13.2	9.21		ug/Kg		70	40 - 115	4	30
alpha-BHC	ND		13.2	8.41		ug/Kg		64	40 - 115	2	30
beta-BHC	ND		13.2	8.23		ug/Kg		62	40 - 120	9	30
delta-BHC	ND		13.2	6.70	J	ug/Kg		51	45 - 120	1	30
Dieldrin	2.0	J	13.2	10.7		ug/Kg		66	40 - 125	7	30
Endosulfan I	ND		13.2	8.29		ug/Kg		63	40 - 120	4	30
Endosulfan II	ND		13.2	7.07		ug/Kg		53	40 - 125	0	30
Endosulfan sulfate	ND		13.2	7.47	J	ug/Kg		57	45 - 120	0	30
Endrin	ND		13.2	8.22		ug/Kg		62	45 - 125	5	30
Endrin aldehyde	ND		13.2	6.30		ug/Kg		48	30 - 120	0	30
Endrin ketone	ND		13.2	7.20		ug/Kg		54	40 - 120	2	30
gamma-BHC (Lindane)	ND		13.2	7.94		ug/Kg		60	40 - 120	5	30
Heptachlor	ND		13.2	8.85		ug/Kg		67	40 - 115	10	30
Heptachlor epoxide	ND		13.2	8.33		ug/Kg		63	45 - 115	8	30
Methoxychlor	ND		13.2	6.24		ug/Kg		47	40 - 135	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
Tetrachloro-m-xylene	76		35 - 115
DCB Decachlorobiphenyl (Surr)	57		45 - 120

GC Semi VOA

Prep Batch: 449003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199071-6	AOC1-(B14,B15,B16,B17,B18)-0.5'	Total/NA	Solid	3546	
440-199071-11	AOC1-(B19,B20,B21,B22)-0.5'	Total/NA	Solid	3546	
440-199071-18	AOC1-(B24,B25,B26,B27,B28,B29)-0.5'	Total/NA	Solid	3546	
440-199071-23	AOC1-(B19,B20,B21,B22)-Dup-0.5'	Total/NA	Solid	3546	
440-199071-29	AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'	Total/NA	Solid	3546	
440-199071-35	AOC1-(B1,B2,B3,B4,B5)-0.5'	Total/NA	Solid	3546	
440-199071-40	AOC1-(B6,B8,B9,B10)-0.5'	Total/NA	Solid	3546	
MB 440-449003/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199041-E-1-E MS	Matrix Spike	Total/NA	Solid	3546	
440-199041-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-449003/1-A	Method Blank	Total/NA	Solid	8081A	449003
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	8081A	449003
440-199041-E-1-E MS	Matrix Spike	Total/NA	Solid	8081A	449003
440-199041-E-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	449003

Analysis Batch: 449071

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199071-6	AOC1-(B14,B15,B16,B17,B18)-0.5'	Total/NA	Solid	8081A	449003
440-199071-11	AOC1-(B19,B20,B21,B22)-0.5'	Total/NA	Solid	8081A	449003
440-199071-18	AOC1-(B24,B25,B26,B27,B28,B29)-0.5'	Total/NA	Solid	8081A	449003
440-199071-23	AOC1-(B19,B20,B21,B22)-Dup-0.5'	Total/NA	Solid	8081A	449003
440-199071-29	AOC1-(B14,B15,B16,B17,B18)-Dup-0.5'	Total/NA	Solid	8081A	449003
440-199071-35	AOC1-(B1,B2,B3,B4,B5)-0.5'	Total/NA	Solid	8081A	449003
440-199071-40	AOC1-(B6,B8,B9,B10)-0.5'	Total/NA	Solid	8081A	449003

Prep Batch: 449141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199071-45	AOC1-(B11,B12,B13,B23)-0.5'	Total/NA	Solid	3546	
MB 440-449141/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199094-A-7-A MS	Matrix Spike	Total/NA	Solid	3546	
440-199094-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199071-45	AOC1-(B11,B12,B13,B23)-0.5'	Total/NA	Solid	8081A	449141
MB 440-449141/1-A	Method Blank	Total/NA	Solid	8081A	449141
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	8081A	449141
440-199094-A-7-A MS	Matrix Spike	Total/NA	Solid	8081A	449141
440-199094-A-7-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8081A	449141

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
X	Surrogate is outside control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199071-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

...erica Irvine
...Derian Avenue
...e 100
...rvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/20/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	10 of 10 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1 - CB14, B15, B16, B17, B18)	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1- (CB19, B20, B21, B22)	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1-(CB24, B25, B26, B27, B28, B29)	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1 CB19, B20, B21, B22) Dup	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1 CB14, B15, B16, B17, B18) Dup	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1 CB1, B2, B3, B4, B5)	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1 CB6, B9, B9, B10)	12/20/17		C	S							X	Lab to composite sample AOC1-
AOC1 B11, B12, B13, B23	12/20/17		C	S							X	Lab to composite sample AOC1-

440-199071 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

2.1 2.7

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: 1.4	Corr'd: 2.0	Therm ID No.: 66

Relinquished by:	Company: Parsons	Date/Time: 12/20/17 1480	Received by:	Company: TA	Date/Time: 12/20/17 1480
Relinquished by:	Company: TA	Date/Time: 12/20/17 1825	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/20/17 1825

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199071-1

Login Number: 199071
List Number: 1
Creator: Escalante, Maria I

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199094-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 4:39:28 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 11
Method Summary 12
Lab Chronicle 13
QC Sample Results 15
QC Association Summary 18
Definitions/Glossary 19
Certification Summary 20
Chain of Custody 21
Receipt Checklists 22

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199094-7	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Solid	12/21/17 07:50	12/21/17 19:12
440-199094-14	AOC1-(B96,B97,B98,B99,B100,B101)-0.5'	Solid	12/21/17 08:50	12/21/17 19:12
440-199094-19	ACO1-(B102,B103,B104,B105)-0.5'	Solid	12/21/17 09:50	12/21/17 19:12
440-199094-24	ACO1-(B102,B103,B104,B105)-DUP-0.5'	Solid	12/21/17 09:50	12/21/17 19:12
440-199094-31	ACO1-(B106,B107,B108,B109,B110,B111)-0.5'	Solid	12/21/17 11:20	12/21/17 19:12
440-199094-36	AOC1-(B112,B113,B114,B115)-0.5'	Solid	12/21/17 12:20	12/21/17 19:12
440-199094-41	AOC1-(B112,B113,B114,B115)-DUP-0.5'	Solid	12/21/17 12:20	12/21/17 19:12
440-199094-46	AOC1-(B86,B87,B88,B89)-0.5'	Solid	12/19/17 11:45	12/21/17 19:12

Job ID: 440-199094-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199094-1

Comments
No additional comments.

Receipt
The samples were received on 12/21/2017 7:12 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 0.4º C and 1.5º C.

GC Semi VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5' — Lab Sample ID: 440-199094-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	14		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	7.1		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	31	J	50	9.9	ug/Kg	1		8081A	Total/NA
Dieldrin	2.0	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B96,B97,B98,B99,B100,B101)-0.5' — Lab Sample ID: 440-199094-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDD	2.4	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDE	15		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	6.8		5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	67		50	10	ug/Kg	1		8081A	Total/NA
Heptachlor epoxide	2.8	J	5.0	2.0	ug/Kg	1		8081A	Total/NA

Client Sample ID: ACO1-(B102,B103,B104,B105)-0.5' — Lab Sample ID: 440-199094-19

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	1.8	J	4.9	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: ACO1-(B102,B103,B104,B105)-DUP-0.5' — Lab Sample ID: 440-199094-24

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.1		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	3.6	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: ACO1-(B106,B107,B108,B109,B110,B111)-0.5' — Lab Sample ID: 440-199094-31

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	6.0		5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B112,B113,B114,B115)-0.5' — Lab Sample ID: 440-199094-36

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	2.8	J	4.9	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B112,B113,B114,B115)-DUP-0.5' — Lab Sample ID: 440-199094-41

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	3.5	J	5.0	1.5	ug/Kg	1		8081A	Total/NA

Client Sample ID: AOC1-(B86,B87,B88,B89)-0.5' — Lab Sample ID: 440-199094-46

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
4,4'-DDE	4.6	J	4.9	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.0	J	4.9	1.5	ug/Kg	1		8081A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5'

Lab Sample ID: 440-199094-7

Date Collected: 12/21/17 07:50
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
4,4'-DDE	**14**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
4,4'-DDT	**7.1**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Chlordane (technical)	**31**	**J**	50	9.9	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Dieldrin	**2.0**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 15:03	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 15:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*58*		*35 - 115*	*12/28/17 17:19*	*12/29/17 15:03*	*1*
DCB Decachlorobiphenyl (Surr)	*45*		*45 - 120*	*12/28/17 17:19*	*12/29/17 15:03*	*1*

Client Sample ID: AOC1-(B96,B97,B98,B99,B100,B101)-0.5'

Lab Sample ID: 440-199094-14

Date Collected: 12/21/17 08:50
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	**2.4**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
4,4'-DDE	**15**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
4,4'-DDT	**6.8**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Chlordane (technical)	**67**		50	10	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Heptachlor epoxide	**2.8**	**J**	5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:32	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:32	1

Client Sample ID: AOC1-(B96,B97,B98,B99,B100,B101)-0.5'

Lab Sample ID: 440-199094-14
Date Collected: 12/21/17 08:50
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 16:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 115*	*12/28/17 17:19*	*12/29/17 16:32*	*1*
DCB Decachlorobiphenyl (Surr)	*72*		*45 - 120*	*12/28/17 17:19*	*12/29/17 16:32*	*1*

Client Sample ID: ACO1-(B102,B103,B104,B105)-0.5'

Lab Sample ID: 440-199094-19
Date Collected: 12/21/17 09:50
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
4,4'-DDE	**1.8**	**J**	4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Aldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
alpha-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
beta-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Chlordane (technical)	ND		49	9.8	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
delta-BHC	ND		9.8	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Dieldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endosulfan I	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endosulfan II	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endosulfan sulfate	ND		9.8	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Endrin ketone	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Heptachlor	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Methoxychlor	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 16:47	1
Toxaphene	ND		200	49	ug/Kg		12/28/17 17:19	12/29/17 16:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*76*		*35 - 115*	*12/28/17 17:19*	*12/29/17 16:47*	*1*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*12/28/17 17:19*	*12/29/17 16:47*	*1*

Client Sample ID: ACO1-(B102,B103,B104,B105)-DUP-0.5'

Lab Sample ID: 440-199094-24
Date Collected: 12/21/17 09:50
Matrix: Solid
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
4,4'-DDE	**6.1**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
4,4'-DDT	**3.6**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Chlordane (technical)	ND		50	9.9	ug/Kg		12/28/17 17:19	12/29/17 17:01	1

Client Sample ID: ACO1-(B102,B103,B104,B105)-DUP-0.5' **Lab Sample ID: 440-199094-24**
Date Collected: 12/21/17 09:50 **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:01	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 17:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 115*	*12/28/17 17:19*	*12/29/17 17:01*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/28/17 17:19*	*12/29/17 17:01*	*1*

Client Sample ID: ACO1-(B106,B107,B108,B109,B110,B111)-0.5' **Lab Sample ID: 440-199094-31**
Date Collected: 12/21/17 11:20 **Matrix: Solid**
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
4,4'-DDE	**6.0**		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
4,4'-DDT	**2.5**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:16	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*81*		*35 - 115*	*12/28/17 17:19*	*12/29/17 17:16*	*1*
DCB Decachlorobiphenyl (Surr)	*76*		*45 - 120*	*12/28/17 17:19*	*12/29/17 17:16*	*1*

Client Sample ID: AOC1-(B112,B113,B114,B115)-0.5'

Lab Sample ID: 440-199094-36
Matrix: Solid
Date Collected: 12/21/17 12:20
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
4,4'-DDE	**2.8**	**J**	4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
4,4'-DDT	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Aldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
alpha-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
beta-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Chlordane (technical)	ND		49	9.9	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Dieldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endosulfan I	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endosulfan II	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Endrin ketone	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Heptachlor	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Methoxychlor	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 17:31	1
Toxaphene	ND		200	49	ug/Kg		12/28/17 17:19	12/29/17 17:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 115*	*12/28/17 17:19*	*12/29/17 17:31*	*1*
DCB Decachlorobiphenyl (Surr)	*71*		*45 - 120*	*12/28/17 17:19*	*12/29/17 17:31*	*1*

Client Sample ID: AOC1-(B112,B113,B114,B115)-DUP-0.5'

Lab Sample ID: 440-199094-41
Matrix: Solid
Date Collected: 12/21/17 12:20
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
4,4'-DDE	**3.5**	**J**	5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Chlordane (technical)	ND		50	9.9	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:01	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:01	1

Client Sample ID: AOC1-(B112,B113,B114,B115)-DUP-0.5'

Lab Sample ID: 440-199094-41
Matrix: Solid
Date Collected: 12/21/17 12:20
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 18:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*78*		*35 - 115*	*12/28/17 17:19*	*12/29/17 18:01*	*1*
DCB Decachlorobiphenyl (Surr)	*60*		*45 - 120*	*12/28/17 17:19*	*12/29/17 18:01*	*1*

Client Sample ID: AOC1-(B86,B87,B88,B89)-0.5'

Lab Sample ID: 440-199094-46
Matrix: Solid
Date Collected: 12/19/17 11:45
Date Received: 12/21/17 19:12

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
4,4'-DDE	**4.6**	**J**	4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
4,4'-DDT	**2.0**	**J**	4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Aldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
alpha-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
beta-BHC	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Chlordane (technical)	ND		49	9.9	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
delta-BHC	ND		9.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Dieldrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endosulfan I	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endosulfan II	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endosulfan sulfate	ND		9.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endrin	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endrin aldehyde	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Endrin ketone	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
gamma-BHC (Lindane)	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Heptachlor	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Heptachlor epoxide	ND		4.9	2.0	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Methoxychlor	ND		4.9	1.5	ug/Kg		12/28/17 17:19	12/29/17 18:15	1
Toxaphene	ND		200	49	ug/Kg		12/28/17 17:19	12/29/17 18:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*90*		*35 - 115*	*12/28/17 17:19*	*12/29/17 18:15*	*1*
DCB Decachlorobiphenyl (Surr)	*94*		*45 - 120*	*12/28/17 17:19*	*12/29/17 18:15*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (35-115)	DCB2 (45-120)								
440-199094-7	AOC1-(B90,B91,B92,B93,B94,B	58	45								
440-199094-7 MS	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	75	59								
440-199094-7 MSD	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	76	57								
440-199094-14	AOC1-(B96,B97,B98,B99,B100,B101)-0.5'	87	72								
440-199094-19	ACO1-(B102,B103,B104,B105)-0.5'	76	52								
440-199094-24	ACO1-(B102,B103,B104,B105)-DUP-0.5'	90	70								
440-199094-31	ACO1-(B106,B107,B108,B109,B110,B111)-0.5'	81	76								
440-199094-36	AOC1-(B112,B113,B114,B115)-0.5'	87	71								
440-199094-41	AOC1-(B112,B113,B114,B115)-DUP-0.5'	78	60								
440-199094-46	AOC1-(B86,B87,B88,B89)-0.5'	90	94								
LCS 440-449141/2-A	Lab Control Sample	109	90								
MB 440-449141/1-A	Method Blank	113	89								

Surrogate Legend

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Method	Method Description	Protocol	Laboratory
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5'
Lab Sample ID: 440-199094-7
Date Collected: 12/21/17 07:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 15:03	D1D	TAL IRV

Client Sample ID: AOC1-(B96,B97,B98,B99,B100,B101)-0.5'
Lab Sample ID: 440-199094-14
Date Collected: 12/21/17 08:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.01 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 16:32	D1D	TAL IRV

Client Sample ID: ACO1-(B102,B103,B104,B105)-0.5'
Lab Sample ID: 440-199094-19
Date Collected: 12/21/17 09:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.34 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 16:47	D1D	TAL IRV

Client Sample ID: ACO1-(B102,B103,B104,B105)-DUP-0.5'
Lab Sample ID: 440-199094-24
Date Collected: 12/21/17 09:50
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.10 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 17:01	D1D	TAL IRV

Client Sample ID: ACO1-(B106,B107,B108,B109,B110,B111)-0.5'
Lab Sample ID: 440-199094-31
Date Collected: 12/21/17 11:20
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.03 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 17:16	D1D	TAL IRV

Client Sample ID: AOC1-(B112,B113,B114,B115)-0.5'
Lab Sample ID: 440-199094-36
Date Collected: 12/21/17 12:20
Matrix: Solid
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.16 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Client Sample ID: AOC1-(B112,B113,B114,B115)-0.5'

Lab Sample ID: 440-199094-36
Matrix: Solid
Date Collected: 12/21/17 12:20
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8081A		1			449294	12/29/17 17:31	D1D	TAL IRV

Client Sample ID: AOC1-(B112,B113,B114,B115)-DUP-0.5'

Lab Sample ID: 440-199094-41
Matrix: Solid
Date Collected: 12/21/17 12:20
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.08 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 18:01	D1D	TAL IRV

Client Sample ID: AOC1-(B86,B87,B88,B89)-0.5'

Lab Sample ID: 440-199094-46
Matrix: Solid
Date Collected: 12/19/17 11:45
Date Received: 12/21/17 19:12

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.22 g	2 mL	449141	12/28/17 17:19	VA	TAL IRV
Total/NA	Analysis	8081A		1			449294	12/29/17 18:15	D1D	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-449141/1-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449141

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 17:19	12/29/17 14:03	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 17:19	12/29/17 14:03	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*113*		*35 - 115*	*12/28/17 17:19*	*12/29/17 14:03*	*1*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*	*12/28/17 17:19*	*12/29/17 14:03*	*1*

Lab Sample ID: LCS 440-449141/2-A
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.8		ug/Kg		96	59 - 118
4,4'-DDE	13.3	14.3		ug/Kg		107	55 - 115
4,4'-DDT	13.3	13.1		ug/Kg		98	51 - 131
Aldrin	13.3	14.0		ug/Kg		105	46 - 115
alpha-BHC	13.3	13.2		ug/Kg		99	38 - 115
beta-BHC	13.3	12.6		ug/Kg		94	46 - 115
delta-BHC	13.3	12.9		ug/Kg		97	52 - 115
Dieldrin	13.3	13.5		ug/Kg		101	57 - 115
Endosulfan I	13.3	13.1		ug/Kg		99	56 - 115
Endosulfan II	13.3	12.2		ug/Kg		92	49 - 117
Endosulfan sulfate	13.3	12.5		ug/Kg		94	54 - 115
Endrin	13.3	12.1		ug/Kg		90	56 - 120
Endrin aldehyde	13.3	11.5		ug/Kg		86	41 - 115
Endrin ketone	13.3	11.9		ug/Kg		89	54 - 119
gamma-BHC (Lindane)	13.3	12.7		ug/Kg		95	49 - 115
Heptachlor	13.3	10.6		ug/Kg		80	52 - 115
Heptachlor epoxide	13.3	12.1		ug/Kg		91	38 - 128
Methoxychlor	13.3	13.2		ug/Kg		99	46 - 146

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene	*109*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*90*		*45 - 120*

Lab Sample ID: 440-199094-7 MS — **Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449294 — **Prep Batch: 449141**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.2	8.40		ug/Kg		64	40 - 130
4,4'-DDE	14		13.2	24.2		ug/Kg		74	35 - 130
4,4'-DDT	7.1		13.2	14.7		ug/Kg		58	35 - 130
Aldrin	ND		13.2	8.87		ug/Kg		67	40 - 115
alpha-BHC	ND		13.2	8.21		ug/Kg		62	40 - 115
beta-BHC	ND		13.2	7.52		ug/Kg		57	40 - 120
delta-BHC	ND		13.2	6.67	J	ug/Kg		51	45 - 120
Dieldrin	2.0	J	13.2	9.93		ug/Kg		61	40 - 125
Endosulfan I	ND		13.2	7.98		ug/Kg		61	40 - 120
Endosulfan II	ND		13.2	7.04		ug/Kg		53	40 - 125
Endosulfan sulfate	ND		13.2	7.50	J	ug/Kg		57	45 - 120
Endrin	ND		13.2	7.82		ug/Kg		59	45 - 125
Endrin aldehyde	ND		13.2	6.29		ug/Kg		48	30 - 120
Endrin ketone	ND		13.2	7.06		ug/Kg		54	40 - 120
gamma-BHC (Lindane)	ND		13.2	7.53		ug/Kg		57	40 - 120
Heptachlor	ND		13.2	8.01		ug/Kg		61	40 - 115
Heptachlor epoxide	ND		13.2	7.67		ug/Kg		58	45 - 115
Methoxychlor	ND		13.2	7.22		ug/Kg		55	40 - 135

Surrogate	MS %Recovery	MS Qualifier	Limits
Tetrachloro-m-xylene	*75*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*

Lab Sample ID: 440-199094-7 MSD — **Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5'**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 449294 — **Prep Batch: 449141**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.2	9.00		ug/Kg		68	40 - 130	7	30
4,4'-DDE	14		13.2	26.2		ug/Kg		90	35 - 130	8	30
4,4'-DDT	7.1		13.2	14.7		ug/Kg		57	35 - 130	1	30
Aldrin	ND		13.2	9.21		ug/Kg		70	40 - 115	4	30
alpha-BHC	ND		13.2	8.41		ug/Kg		64	40 - 115	2	30
beta-BHC	ND		13.2	8.23		ug/Kg		62	40 - 120	9	30
delta-BHC	ND		13.2	6.70	J	ug/Kg		51	45 - 120	1	30
Dieldrin	2.0	J	13.2	10.7		ug/Kg		66	40 - 125	7	30
Endosulfan I	ND		13.2	8.29		ug/Kg		63	40 - 120	4	30
Endosulfan II	ND		13.2	7.07		ug/Kg		53	40 - 125	0	30
Endosulfan sulfate	ND		13.2	7.47	J	ug/Kg		57	45 - 120	0	30
Endrin	ND		13.2	8.22		ug/Kg		62	45 - 125	5	30
Endrin aldehyde	ND		13.2	6.30		ug/Kg		48	30 - 120	0	30
Endrin ketone	ND		13.2	7.20		ug/Kg		54	40 - 120	2	30
gamma-BHC (Lindane)	ND		13.2	7.94		ug/Kg		60	40 - 120	5	30
Heptachlor	ND		13.2	8.85		ug/Kg		67	40 - 115	10	30
Heptachlor epoxide	ND		13.2	8.33		ug/Kg		63	45 - 115	8	30

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199094-7 MSD
Matrix: Solid
Analysis Batch: 449294

Client Sample ID: AOC1-(B90,B91,B92,B93,B94,B95)-0.5'
Prep Type: Total/NA
Prep Batch: 449141

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methoxychlor	ND		13.2	6.24		ug/Kg		47	40 - 135	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*76*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*57*		*45 - 120*

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

GC Semi VOA

Prep Batch: 449141

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199094-7	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	3546	
440-199094-14	AOC1-(B96,B97,B98,B99,B100,B101)-0.5'	Total/NA	Solid	3546	
440-199094-19	ACO1-(B102,B103,B104,B105)-0.5'	Total/NA	Solid	3546	
440-199094-24	ACO1-(B102,B103,B104,B105)-DUP-0.5'	Total/NA	Solid	3546	
440-199094-31	ACO1-(B106,B107,B108,B109,B110,B111)-0.5'	Total/NA	Solid	3546	
440-199094-36	AOC1-(B112,B113,B114,B115)-0.5'	Total/NA	Solid	3546	
440-199094-41	AOC1-(B112,B113,B114,B115)-DUP-0.5'	Total/NA	Solid	3546	
440-199094-46	AOC1-(B86,B87,B88,B89)-0.5'	Total/NA	Solid	3546	
MB 440-449141/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199094-7 MS	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	3546	
440-199094-7 MSD	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	3546	

Analysis Batch: 449294

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199094-7	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	8081A	449141
440-199094-14	AOC1-(B96,B97,B98,B99,B100,B101)-0.5'	Total/NA	Solid	8081A	449141
440-199094-19	ACO1-(B102,B103,B104,B105)-0.5'	Total/NA	Solid	8081A	449141
440-199094-24	ACO1-(B102,B103,B104,B105)-DUP-0.5'	Total/NA	Solid	8081A	449141
440-199094-31	ACO1-(B106,B107,B108,B109,B110,B111)-0.5'	Total/NA	Solid	8081A	449141
440-199094-36	AOC1-(B112,B113,B114,B115)-0.5'	Total/NA	Solid	8081A	449141
440-199094-41	AOC1-(B112,B113,B114,B115)-DUP-0.5'	Total/NA	Solid	8081A	449141
440-199094-46	AOC1-(B86,B87,B88,B89)-0.5'	Total/NA	Solid	8081A	449141
MB 440-449141/1-A	Method Blank	Total/NA	Solid	8081A	449141
LCS 440-449141/2-A	Lab Control Sample	Total/NA	Solid	8081A	449141
440-199094-7 MS	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	8081A	449141
440-199094-7 MSD	AOC1-(B90,B91,B92,B93,B94,B95)-0.5'	Total/NA	Solid	8081A	449141

Definitions/Glossary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Qualifiers

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199094-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12/21/17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	7 of 7 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	Sample Specific Notes:
AOC1-(B90, B91, B92, B93, B94, B95)	12/21/17		C	S							X	Lab to composite 0.5 AOC1 sample
AOC1-(B96, B97, B98, B99, B100, B101)	12/21/17		C	S							X	Lab to composite 0.5 Sample AOC1-
AOC1-(B102, B103, B104, B105)	12/21/17		C	S							X	Lab to composite 0.5 Sample AOC1-
AOC1-(B102, B103, B104, B105) Dup	12/21/17		C	S							X	Lab to composite 0.5 Sample AOC1-
AOC1-(B106, B107, B108, B109, B110, B111)	12/21/17		C	S							X	Lab to composite 0.5 Sample AOC1-
AOC1-(B112, B113, B114, B115)	12/21/17		C	S							X	Lab to AOC1- composite 0.5
AOC1-(B112, B113, B114, B115) Dup	12/21/17		C	S							X	Lab to composite 0.5 AOC1-
AOC1-(B86, B87, B88, B89)	12/21/17		C	S							X	" "

440-199094 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for_____Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd:_____ Corr'd:_____	Therm ID No.:_____
Relinquished by:	Company: Parsons	Date/Time: 12/21/17	Received by:	Company:	Date/Time: 12-21-17 1639
Relinquished by:	Company: TAL	Date/Time: 12-21-17 19:12	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/21/17 1912

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

IR PS 1.0/1.5 us/cf

12/30/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199094-1

Login Number: 199094
List Number: 1
Creator: Garcia, Veronica G

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199046-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 2:20:57 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 6
Client Sample Results 8
Surrogate Summary 20
Method Summary 23
Lab Chronicle 24
QC Sample Results 26
QC Association Summary 48
Definitions/Glossary 52
Certification Summary 53
Chain of Custody 54
Receipt Checklists 55

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199046-1	AOC4-B2-5.0	Solid	12/22/17 07:20	12/22/17 18:00
440-199046-4	AOC4-B1-5.0	Solid	12/22/17 08:35	12/22/17 18:00
440-199046-5	AOC4-B1-5.0 DUP	Solid	12/22/17 08:35	12/22/17 18:00
440-199046-8	EB-2017-12-22	Water	12/22/17 10:30	12/22/17 18:00
440-199046-9	TB	Water	12/22/17 00:01	12/22/17 18:00

Job ID: 440-199046-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199046-1

Comments
No additional comments.

Receipt
The samples were received on 12/22/2017 6:00 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 1.4º C and 4.3º C.

Receipt Exceptions
The number of containers for the following sample did not match the information listed on the Chain-of-Custody (COC): EB-2017-12-22 (440-199046-8).

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-448948 recovered outside control limits for the following analytes: Bromoform and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 440-448948 recovered outside control limits for the following analytes: n-Butylbenzene, 1,3,5-Trimethylbenzene and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 responses for the following samples were below the lower control limit: AOC4-B1-5.0 (440-199046-4) and AOC4-B1-5.0 DUP (440-199046-5). The samples were re-extracted and/or re-analyzed with concurring results, and the original set of data has been reported. The affected analytes were flagged with asterisks.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-448460 and analytical batch 440-448504 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448690. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-448689. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C/8082: Slightly elevated reporting limits are provided for the following sample due to insufficient sample volume (less than 250ml) provided for preparation: EB-2017-12-22 (440-199046-8).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep

Job ID: 440-199046-1 (Continued)

Laboratory: TestAmerica Irvine (Continued)

No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: AOC4-B2-5.0 — Lab Sample ID: 440-199046-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.5		2.2	1.1	ug/Kg	1		8260B	Total/NA
Toluene	2.0	J	2.2	1.1	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	4.6	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	9.4		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	200		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	1.2		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	3.0		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	43		0.99	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	9.9		0.99	0.50	mg/Kg	5		6010B	Total/NA
Copper	37		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	7.1		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	7.7		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	45		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	88		0.99	0.50	mg/Kg	5		6010B	Total/NA
Zinc	94		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.025		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: AOC4-B1-5.0 — Lab Sample ID: 440-199046-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.8		1.8	0.92	ug/Kg	1		8260B	Total/NA
Toluene	2.0		1.8	0.92	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	5.1		5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	7.5		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	160		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.92		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.4		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	32		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	7.6		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	27		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	5.2		2.0	1.0	mg/Kg	5		6010B	Total/NA
Molybdenum	6.5		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	35		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	69		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	72		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.021		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: AOC4-B1-5.0 DUP — Lab Sample ID: 440-199046-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		1.8	0.89	ug/Kg	1		8260B	Total/NA
Ethylbenzene	0.94	J	1.8	0.89	ug/Kg	1		8260B	Total/NA
Toluene	2.7		1.8	0.89	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	5.3		5.0	2.5	mg/Kg	1		8015B	Total/NA
Arsenic	5.9		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	140		1.5	0.74	mg/Kg	5		6010B	Total/NA
Beryllium	0.76		0.49	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.1		0.49	0.25	mg/Kg	5		6010B	Total/NA
Chromium	29		0.99	0.49	mg/Kg	5		6010B	Total/NA
Cobalt	6.8		0.99	0.49	mg/Kg	5		6010B	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC4-B1-5.0 DUP (Continued) — Lab Sample ID: 440-199046-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	24		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	4.5		2.0	0.99	mg/Kg	5		6010B	Total/NA
Molybdenum	5.8		2.0	0.99	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	0.99	mg/Kg	5		6010B	Total/NA
Vanadium	61		0.99	0.49	mg/Kg	5		6010B	Total/NA
Zinc	65		4.9	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.028		0.020	0.012	mg/Kg	1		7471A	Total/NA

Client Sample ID: EB-2017-12-22 — Lab Sample ID: 440-199046-8

No Detections.

Client Sample ID: TB — Lab Sample ID: 440-199046-9

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: AOC4-B2-5.0
Date Collected: 12/22/17 07:20
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.5**		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Bromobenzene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Bromochloromethane	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Bromodichloromethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Bromoform	ND	*	5.5	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
2-Butanone (MEK)	ND		11	5.5	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Carbon tetrachloride	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Chlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Chloroethane	ND		5.5	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Chloroform	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Chloromethane	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
2-Chlorotoluene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
4-Chlorotoluene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
cis-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
cis-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Dibromochloromethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2-Dibromo-3-Chloropropane	ND	*	5.5	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2-Dibromoethane (EDB)	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Dibromomethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,3-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,4-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Dichlorodifluoromethane	ND		5.5	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1-Dichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2-Dichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1-Dichloroethene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,3-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Ethylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Hexachlorobutadiene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Isopropylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Methylene Chloride	ND		22	5.5	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Methyl-t-Butyl Ether (MTBE)	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
m,p-Xylene	ND		4.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Naphthalene	ND		5.5	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
n-Butylbenzene	ND	*	5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
N-Propylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
o-Xylene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
p-Isopropyltoluene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
sec-Butylbenzene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Styrene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
tert-Butylbenzene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1,1,2-Tetrachloroethane	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Tetrachloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Toluene	**2.0**	**J**	2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
trans-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1

Client Sample ID: AOC4-B2-5.0
Date Collected: 12/22/17 07:20
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2,3-Trichlorobenzene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2,4-Trichlorobenzene	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1,1-Trichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,1,2-Trichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Trichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Trichlorofluoromethane	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
1,3,5-Trimethylbenzene	ND	*	2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1
Vinyl chloride	ND		5.5	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*74 - 124*	*12/28/17 10:43*	*12/28/17 11:33*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 135*	*12/28/17 10:43*	*12/28/17 11:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 122*	*12/28/17 10:43*	*12/28/17 11:33*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/28/17 20:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*12/28/17 20:14*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 02:43	1
ORO (C23-C40)	**4.6**	**J**	5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 02:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*50*		*40 - 140*	*12/23/17 07:09*	*12/24/17 02:43*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 12:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*12/28/17 06:47*	*12/29/17 12:47*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Arsenic	**9.4**		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Barium	**200**		1.5	0.74	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Beryllium	**1.2**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:16	5

Client Sample ID: AOC4-B2-5.0

Lab Sample ID: 440-199046-1

Date Collected: 12/22/17 07:20

Matrix: Solid

Date Received: 12/22/17 18:00

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Cadmium	**3.0**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Chromium	**43**		0.99	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Cobalt	**9.9**		0.99	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Copper	**37**		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Lead	**7.1**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Molybdenum	**7.7**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Nickel	**45**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Silver	ND		1.5	0.88	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Thallium	ND		9.9	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Vanadium	**88**		0.99	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:16	5
Zinc	**94**		5.0	2.5	mg/Kg		12/27/17 08:47	12/27/17 18:16	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.025**		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 21:46	1

Client Sample ID: AOC4-B1-5.0

Lab Sample ID: 440-199046-4

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.8**		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Bromobenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Bromochloromethane	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Bromodichloromethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Bromoform	ND	*	4.6	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Carbon tetrachloride	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Chlorobenzene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Chloroethane	ND		4.6	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Chloroform	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Chloromethane	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
2-Chlorotoluene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
4-Chlorotoluene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
cis-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
cis-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Dibromochloromethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2-Dibromo-3-Chloropropane	ND	*	4.6	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2-Dibromoethane (EDB)	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Dibromomethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2-Dichlorobenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,3-Dichlorobenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,4-Dichlorobenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Dichlorodifluoromethane	ND		4.6	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1-Dichloroethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2-Dichloroethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1-Dichloroethene	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2-Dichloropropane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: AOC4-B1-5.0
Date Collected: 12/22/17 08:35
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,3-Dichloropropane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1-Dichloropropene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Ethylbenzene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Hexachlorobutadiene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Isopropylbenzene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Methylene Chloride	ND		18	4.6	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Methyl-t-Butyl Ether (MTBE)	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
m,p-Xylene	ND		3.7	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Naphthalene	ND	*	4.6	1.8	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
n-Butylbenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
N-Propylbenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
o-Xylene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
p-Isopropyltoluene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
sec-Butylbenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Styrene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
tert-Butylbenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1,1,2-Tetrachloroethane	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1,2,2-Tetrachloroethane	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Tetrachloroethene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Toluene	**2.0**		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
trans-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
trans-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2,3-Trichlorobenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2,4-Trichlorobenzene	ND	*	4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1,1-Trichloroethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,1,2-Trichloroethane	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Trichloroethene	ND		1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Trichlorofluoromethane	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2,3-Trichloropropane	ND	*	9.2	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,2,4-Trimethylbenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
1,3,5-Trimethylbenzene	ND	*	1.8	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1
Vinyl chloride	ND		4.6	0.92	ug/Kg		12/28/17 10:43	12/28/17 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*	*	*74 - 124*	*12/28/17 10:43*	*12/28/17 12:03*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 135*	*12/28/17 10:43*	*12/28/17 12:03*	*1*
Toluene-d8 (Surr)	*108*		*80 - 122*	*12/28/17 10:43*	*12/28/17 12:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/29/17 14:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*12/29/17 14:27*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 03:03	1
ORO (C23-C40)	**5.1**		5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 03:03	1

Client Sample ID: AOC4-B1-5.0

Lab Sample ID: 440-199046-4

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	*54*		*40 - 140*	*12/23/17 07:09*	*12/24/17 03:03*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:00	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/28/17 06:47*	*12/29/17 13:00*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Arsenic	**7.5**		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Barium	**160**		1.5	0.75	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Beryllium	**0.92**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Cadmium	**2.4**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Chromium	**32**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Cobalt	**7.6**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Copper	**27**		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Lead	**5.2**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Molybdenum	**6.5**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Nickel	**35**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Silver	ND		1.5	0.89	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Thallium	ND		10	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Vanadium	**69**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:18	5
Zinc	**72**		5.0	2.5	mg/Kg		12/27/17 08:47	12/27/17 18:18	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.021**		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 21:49	1

Client Sample ID: AOC4-B1-5.0 DUP

Lab Sample ID: 440-199046-5

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Bromobenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Bromochloromethane	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Bromodichloromethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Bromoform	ND	*	4.4	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
2-Butanone (MEK)	ND		8.9	4.4	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Carbon tetrachloride	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1

Client Sample ID: AOC4-B1-5.0 DUP
Date Collected: 12/22/17 08:35
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Chloroethane	ND		4.4	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Chloroform	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Chloromethane	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
2-Chlorotoluene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
4-Chlorotoluene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
cis-1,2-Dichloroethene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
cis-1,3-Dichloropropene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Dibromochloromethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2-Dibromo-3-Chloropropane	ND	*	4.4	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2-Dibromoethane (EDB)	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Dibromomethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2-Dichlorobenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,3-Dichlorobenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,4-Dichlorobenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Dichlorodifluoromethane	ND		4.4	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1-Dichloroethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2-Dichloroethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1-Dichloroethene	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2-Dichloropropane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,3-Dichloropropane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
2,2-Dichloropropane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1-Dichloropropene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Ethylbenzene	**0.94**	**J**	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Hexachlorobutadiene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Isopropylbenzene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Methylene Chloride	ND		18	4.4	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
m,p-Xylene	ND		3.6	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Naphthalene	ND	*	4.4	1.8	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
n-Butylbenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
N-Propylbenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
o-Xylene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
p-Isopropyltoluene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
sec-Butylbenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Styrene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
tert-Butylbenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1,2,2-Tetrachloroethane	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Tetrachloroethene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Toluene	**2.7**		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
trans-1,2-Dichloroethene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
trans-1,3-Dichloropropene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2,3-Trichlorobenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2,4-Trichlorobenzene	ND	*	4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1,1-Trichloroethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,1,2-Trichloroethane	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Trichloroethene	ND		1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Trichlorofluoromethane	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1

Client Sample ID: AOC4-B1-5.0 DUP
Date Collected: 12/22/17 08:35
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichloropropane	ND	*	8.9	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,2,4-Trimethylbenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
1,3,5-Trimethylbenzene	ND	*	1.8	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1
Vinyl chloride	ND		4.4	0.89	ug/Kg		12/28/17 12:15	12/28/17 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*	*	*74 - 124*	*12/28/17 12:15*	*12/28/17 14:01*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 135*	*12/28/17 12:15*	*12/28/17 14:01*	*1*
Toluene-d8 (Surr)	*109*		*80 - 122*	*12/28/17 12:15*	*12/28/17 14:01*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg			12/28/17 21:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*		*65 - 140*		*12/28/17 21:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 03:23	1
ORO (C23-C40)	**5.3**		5.0	2.5	mg/Kg		12/23/17 07:09	12/24/17 03:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*53*		*40 - 140*	*12/23/17 07:09*	*12/24/17 03:23*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 13:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*12/28/17 06:47*	*12/29/17 13:14*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Arsenic	**5.9**		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Barium	**140**		1.5	0.74	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Beryllium	**0.76**		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Cadmium	**2.1**		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Chromium	**29**		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Cobalt	**6.8**		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Copper	**24**		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Lead	**4.5**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Molybdenum	**5.8**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Nickel	**31**		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 18:20	5

Client Sample ID: AOC4-B1-5.0 DUP

Lab Sample ID: 440-199046-5

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Method: 6010B - Metals (ICP) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Silver	ND		1.5	0.88	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Thallium	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Vanadium	**61**		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 18:20	5
Zinc	**65**		4.9	2.5	mg/Kg		12/27/17 08:47	12/27/17 18:20	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.028**		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 21:51	1

Client Sample ID: EB-2017-12-22

Lab Sample ID: 440-199046-8

Date Collected: 12/22/17 10:30

Matrix: Water

Date Received: 12/22/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Bromochloromethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Bromodichloromethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Bromoform	ND		1.0	0.40	ug/L			12/29/17 06:35	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/17 06:35	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/17 06:35	1
Chloroform	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Chloromethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Dibromochloromethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/17 06:35	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/17 06:35	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/17 06:35	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1

Client Sample ID: EB-2017-12-22
Date Collected: 12/22/17 10:30
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-8
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/17 06:35	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			12/29/17 06:35	1
m,p-Xylene	ND		1.0	0.50	ug/L			12/29/17 06:35	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/17 06:35	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/17 06:35	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
o-Xylene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Styrene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Toluene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/17 06:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/17 06:35	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/17 06:35	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:35	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/17 06:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*80 - 120*		*12/29/17 06:35*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*12/29/17 06:35*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*12/29/17 06:35*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			12/27/17 20:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*12/27/17 20:02*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.51	0.26	mg/L		12/27/17 06:24	12/27/17 23:20	1
ORO (C23-C40)	ND		0.51	0.26	mg/L		12/27/17 06:24	12/27/17 23:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*74*		*45 - 120*	*12/27/17 06:24*	*12/27/17 23:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1

Client Sample ID: EB-2017-12-22

Lab Sample ID: 440-199046-8

Date Collected: 12/22/17 10:30

Matrix: Water

Date Received: 12/22/17 18:00

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1221	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1
Aroclor 1232	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1
Aroclor 1242	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1
Aroclor 1248	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1
Aroclor 1254	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1
Aroclor 1260	ND		1.0	0.51	ug/L		12/27/17 06:21	12/27/17 15:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*77*		*26 - 115*	*12/27/17 06:21*	*12/27/17 15:01*	*1*

Method: 6010B - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0060	mg/L		12/28/17 08:17	12/28/17 17:49	1
Arsenic	ND		0.010	0.0089	mg/L		12/28/17 08:17	12/28/17 17:49	1
Barium	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Beryllium	ND		0.0020	0.0010	mg/L		12/28/17 08:17	12/28/17 17:49	1
Cadmium	ND		0.0050	0.0025	mg/L		12/28/17 08:17	12/28/17 17:49	1
Chromium	ND		0.0050	0.0025	mg/L		12/28/17 08:17	12/28/17 17:49	1
Cobalt	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Copper	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Lead	ND		0.0050	0.0038	mg/L		12/28/17 08:17	12/28/17 17:49	1
Molybdenum	ND		0.020	0.010	mg/L		12/28/17 08:17	12/28/17 17:49	1
Nickel	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Selenium	ND		0.010	0.0087	mg/L		12/28/17 08:17	12/28/17 17:49	1
Silver	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Thallium	ND		0.010	0.0080	mg/L		12/28/17 08:17	12/28/17 17:49	1
Vanadium	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:49	1
Zinc	ND		0.020	0.012	mg/L		12/28/17 08:17	12/28/17 17:49	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		12/28/17 09:02	12/28/17 15:30	1

Client Sample ID: TB

Lab Sample ID: 440-199046-9

Date Collected: 12/22/17 00:01

Matrix: Water

Date Received: 12/22/17 18:00

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Bromobenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Bromochloromethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Bromodichloromethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Bromoform	ND		1.0	0.40	ug/L			12/29/17 06:08	1
Bromomethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/29/17 06:08	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Chloroethane	ND		1.0	0.40	ug/L			12/29/17 06:08	1
Chloroform	ND		0.50	0.25	ug/L			12/29/17 06:08	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: TB
Date Collected: 12/22/17 00:01
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloromethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Dibromochloromethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/29/17 06:08	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Dibromomethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/29/17 06:08	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/29/17 06:08	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/29/17 06:08	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			12/29/17 06:08	1
m,p-Xylene	ND		1.0	0.50	ug/L			12/29/17 06:08	1
Naphthalene	ND		1.0	0.40	ug/L			12/29/17 06:08	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/29/17 06:08	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
o-Xylene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Styrene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Toluene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/17 06:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/29/17 06:08	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Trichloroethene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/29/17 06:08	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/29/17 06:08	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: TB
Date Collected: 12/22/17 00:01
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199046-9
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vinyl chloride	ND		0.50	0.25	ug/L			12/29/17 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*12/29/17 06:08*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*12/29/17 06:08*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*12/29/17 06:08*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-124)	(80-135)	(80-122)
440-199046-1	AOC4-B2-5.0	109	110	104
440-199046-4	AOC4-B1-5.0	118 *	111	108
440-199046-5	AOC4-B1-5.0 DUP	114 *	115	109
LCS 440-448948/5	Lab Control Sample	97	105	100
LCSD 440-448948/6	Lab Control Sample Dup	100	105	99
MB 440-448948/3	Method Blank	95	111	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)
440-198996-A-1 MS	Matrix Spike	98	98	100
440-198996-A-1 MSD	Matrix Spike Duplicate	98	97	100
440-199046-8	EB-2017-12-22	105	100	105
440-199046-9	TB	101	99	104
LCS 440-449182/5	Lab Control Sample	99	98	97
MB 440-449182/4	Method Blank	104	98	102

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-199046-1	AOC4-B2-5.0	82
440-199046-4	AOC4-B1-5.0	82
440-199046-5	AOC4-B1-5.0 DUP	68
440-199084-A-1 MS	Matrix Spike	90
440-199084-A-1 MSD	Matrix Spike Duplicate	81
440-199111-E-7 MS	Matrix Spike	98
440-199111-E-7 MSD	Matrix Spike Duplicate	95
LCS 440-448956/3	Lab Control Sample	124
LCS 440-449230/3	Lab Control Sample	111
LCSD 440-448956/4	Lab Control Sample Dup	123
LCSD 440-449230/4	Lab Control Sample Dup	98
MB 440-448956/5	Method Blank	85
MB 440-449230/5	Method Blank	126

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-198645-A-37 MS	Matrix Spike	109
440-198645-A-37 MSD	Matrix Spike Duplicate	108
440-199046-8	EB-2017-12-22	96
LCS 440-448741/4	Lab Control Sample	112
MB 440-448741/5	Method Blank	99

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-199041-E-1-A MS	Matrix Spike	75
440-199041-E-1-B MSD	Matrix Spike Duplicate	82
440-199046-1	AOC4-B2-5.0	50
440-199046-4	AOC4-B1-5.0	54
440-199046-5	AOC4-B1-5.0 DUP	53
LCS 440-448460/2-A	Lab Control Sample	89
MB 440-448460/1-A	Method Blank	90

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
440-199046-8	EB-2017-12-22	74
LCS 440-448690/2-A	Lab Control Sample	72
LCSD 440-448690/3-A	Lab Control Sample Dup	58
MB 440-448690/1-A	Method Blank	76

Surrogate Legend

OTCN = n-Octacosane

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-199024-G-1-F MS	Matrix Spike	85

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
440-199024-G-1-G MSD	Matrix Spike Duplicate	83
440-199046-1	AOC4-B2-5.0	46
440-199046-4	AOC4-B1-5.0	70
440-199046-5	AOC4-B1-5.0 DUP	52
LCS 440-448949/2-A	Lab Control Sample	81
MB 440-448949/1-A	Method Blank	88

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (26-115)
440-199046-8	EB-2017-12-22	77
LCS 440-448689/4-A	Lab Control Sample	73
LCSD 440-448689/5-A	Lab Control Sample Dup	81
MB 440-448689/1-A	Method Blank	73

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7470A	Mercury (CVAA)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC4-B2-5.0

Lab Sample ID: 440-199046-1

Date Collected: 12/22/17 07:20

Matrix: Solid

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.582 g	10 mL	449019	12/28/17 10:43	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	448948	12/28/17 11:33	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.06 g	10 mL	448956	12/28/17 20:14	KGL	TAL IRV
Total/NA	Prep	3546			15.02 g	1 mL	448460	12/23/17 07:09	L1A	TAL IRV
Total/NA	Analysis	8015B		1			448503	12/24/17 02:43	LMB	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	448949	12/28/17 06:47	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 12:47	JM	TAL IRV
Total/NA	Prep	3050B			2.02 g	50 mL	448722	12/27/17 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448893	12/27/17 18:16	K1E	TAL IRV
Total/NA	Prep	7471A			0.49 g	50 mL	448579	12/26/17 11:57	Q1N	TAL IRV
Total/NA	Analysis	7471A		1			449054	12/27/17 21:46	DB	TAL IRV

Client Sample ID: AOC4-B1-5.0

Lab Sample ID: 440-199046-4

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.438 g	10 mL	449019	12/28/17 10:43	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	448948	12/28/17 12:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	449230	12/29/17 14:27	EI	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	448460	12/23/17 07:09	L1A	TAL IRV
Total/NA	Analysis	8015B		1			448503	12/24/17 03:03	LMB	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	448949	12/28/17 06:47	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 13:00	JM	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	448722	12/27/17 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448893	12/27/17 18:18	K1E	TAL IRV
Total/NA	Prep	7471A			0.51 g	50 mL	448579	12/26/17 11:57	Q1N	TAL IRV
Total/NA	Analysis	7471A		1			449054	12/27/17 21:49	DB	TAL IRV

Client Sample ID: AOC4-B1-5.0 DUP

Lab Sample ID: 440-199046-5

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.63 g	10 mL	449019	12/28/17 12:15	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	448948	12/28/17 14:01	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.07 g	10 mL	448956	12/28/17 21:12	KGL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	448460	12/23/17 07:09	L1A	TAL IRV
Total/NA	Analysis	8015B		1			448503	12/24/17 03:23	LMB	TAL IRV
Total/NA	Prep	3546			15.02 g	2 mL	448949	12/28/17 06:47	L1A	TAL IRV
Total/NA	Analysis	8082		1			449223	12/29/17 13:14	JM	TAL IRV
Total/NA	Prep	3050B			2.03 g	50 mL	448722	12/27/17 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448893	12/27/17 18:20	K1E	TAL IRV

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Client Sample ID: AOC4-B1-5.0 DUP

Lab Sample ID: 440-199046-5

Date Collected: 12/22/17 08:35

Matrix: Solid

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	7471A			0.51 g	50 mL	448579	12/26/17 11:57	Q1N	TAL IRV
Total/NA	Analysis	7471A		1			449054	12/27/17 21:51	DB	TAL IRV

Client Sample ID: EB-2017-12-22

Lab Sample ID: 440-199046-8

Date Collected: 12/22/17 10:30

Matrix: Water

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	449182	12/29/17 06:35	GK	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	448741	12/27/17 20:02	IM	TAL IRV
Total/NA	Prep	3510C			245 mL	1 mL	448690	12/27/17 06:24	L2A	TAL IRV
Total/NA	Analysis	8015B		1			448898	12/27/17 23:20	LMB	TAL IRV
Total/NA	Prep	3510C			245 mL	2 mL	448689	12/27/17 06:21	L2A	TAL IRV
Total/NA	Analysis	8082		1			448718	12/27/17 15:01	JM	TAL IRV
Total Recoverable	Prep	3005A			25 mL	25 mL	448965	12/28/17 08:17	JL	TAL IRV
Total Recoverable	Analysis	6010B		1			449164	12/28/17 17:49	K1E	TAL IRV
Total/NA	Prep	7470A			20 mL	20 mL	448984	12/28/17 09:02	Q1N	TAL IRV
Total/NA	Analysis	7470A		1			449139	12/28/17 15:30	DB	TAL IRV

Client Sample ID: TB

Lab Sample ID: 440-199046-9

Date Collected: 12/22/17 00:01

Matrix: Water

Date Received: 12/22/17 18:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	449182	12/29/17 06:08	GK	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-448948/3
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Bromobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Bromoform	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/28/17 08:06	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Chloroethane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
Chloroform	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Chloromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dibromomethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Methylene Chloride	ND		20	5.0	ug/Kg			12/28/17 08:06	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			12/28/17 08:06	1
Naphthalene	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
o-Xylene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Styrene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Toluene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-448948/3
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Trichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/28/17 08:06	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*		*12/28/17 08:06*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 135*		*12/28/17 08:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 122*		*12/28/17 08:06*	*1*

Lab Sample ID: LCS 440-448948/5
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.3		ug/Kg		105	65 - 120
Bromobenzene	50.0	54.1		ug/Kg		108	70 - 120
Bromochloromethane	50.0	61.9		ug/Kg		124	75 - 145
Bromodichloromethane	50.0	57.5		ug/Kg		115	75 - 135
Bromoform	50.0	68.2	*	ug/Kg		136	75 - 135
Bromomethane	50.0	50.6		ug/Kg		101	65 - 140
2-Butanone (MEK)	50.0	78.8		ug/Kg		158	25 - 170
Carbon tetrachloride	50.0	55.7		ug/Kg		111	65 - 130
Chlorobenzene	50.0	53.2		ug/Kg		106	70 - 120
Chloroethane	50.0	46.6		ug/Kg		93	60 - 135
Chloroform	50.0	52.6		ug/Kg		105	70 - 140
Chloromethane	50.0	46.6		ug/Kg		93	45 - 135
2-Chlorotoluene	50.0	51.9		ug/Kg		104	60 - 115
4-Chlorotoluene	50.0	53.7		ug/Kg		107	65 - 115
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	65 - 135
cis-1,3-Dichloropropene	50.0	57.0		ug/Kg		114	75 - 135
Dibromochloromethane	50.0	61.4		ug/Kg		123	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	78.3	*	ug/Kg		157	75 - 150
1,2-Dibromoethane (EDB)	50.0	64.4		ug/Kg		129	85 - 140
Dibromomethane	50.0	60.5		ug/Kg		121	80 - 145
1,2-Dichlorobenzene	50.0	54.9		ug/Kg		110	75 - 125
1,3-Dichlorobenzene	50.0	52.2		ug/Kg		104	70 - 115
1,4-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 120
Dichlorodifluoromethane	50.0	49.8		ug/Kg		100	35 - 160
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-448948/5
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	62.0		ug/Kg		124	80 - 140
1,1-Dichloroethene	50.0	52.1		ug/Kg		104	55 - 130
1,2-Dichloropropane	50.0	54.9		ug/Kg		110	65 - 130
1,3-Dichloropropane	50.0	61.8		ug/Kg		124	80 - 135
2,2-Dichloropropane	50.0	56.6		ug/Kg		113	65 - 140
1,1-Dichloropropene	50.0	54.8		ug/Kg		110	80 - 120
Ethylbenzene	50.0	54.0		ug/Kg		108	70 - 120
Hexachlorobutadiene	50.0	47.9		ug/Kg		96	60 - 140
Isopropylbenzene	50.0	58.0		ug/Kg		116	55 - 120
Methylene Chloride	50.0	51.4		ug/Kg		103	60 - 140
Methyl-t-Butyl Ether (MTBE)	50.0	62.9		ug/Kg		126	75 - 150
m,p-Xylene	50.0	55.8		ug/Kg		112	65 - 120
Naphthalene	50.0	71.5		ug/Kg		143	70 - 160
n-Butylbenzene	50.0	54.2		ug/Kg		108	65 - 115
N-Propylbenzene	50.0	55.3		ug/Kg		111	60 - 115
o-Xylene	50.0	58.1		ug/Kg		116	70 - 125
p-Isopropyltoluene	50.0	54.9		ug/Kg		110	70 - 120
sec-Butylbenzene	50.0	54.9		ug/Kg		110	70 - 120
Styrene	50.0	54.3		ug/Kg		109	75 - 130
tert-Butylbenzene	50.0	55.3		ug/Kg		111	70 - 125
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/Kg		115	75 - 130
1,1,2,2-Tetrachloroethane	50.0	66.5		ug/Kg		133	75 - 150
Tetrachloroethene	50.0	52.4		ug/Kg		105	65 - 130
Toluene	50.0	56.1		ug/Kg		112	70 - 120
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	65 - 135
trans-1,3-Dichloropropene	50.0	60.4		ug/Kg		121	75 - 145
1,2,3-Trichlorobenzene	50.0	57.3		ug/Kg		115	75 - 145
1,2,4-Trichlorobenzene	50.0	53.4		ug/Kg		107	70 - 145
1,1,1-Trichloroethane	50.0	54.1		ug/Kg		108	70 - 135
1,1,2-Trichloroethane	50.0	62.4		ug/Kg		125	80 - 145
Trichloroethene	50.0	54.5		ug/Kg		109	65 - 120
Trichlorofluoromethane	50.0	54.1		ug/Kg		108	60 - 145
1,2,3-Trichloropropane	50.0	70.8		ug/Kg		142	65 - 150
1,2,4-Trimethylbenzene	50.0	51.8		ug/Kg		104	65 - 115
1,3,5-Trimethylbenzene	50.0	55.8		ug/Kg		112	65 - 115
Vinyl chloride	50.0	48.2		ug/Kg		96	45 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*80 - 135*
Toluene-d8 (Surr)	*100*		*80 - 122*

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	53.0		ug/Kg		106	65 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	55.3		ug/Kg		111	70 - 120	2	20
Bromochloromethane	50.0	60.7		ug/Kg		121	75 - 145	2	20
Bromodichloromethane	50.0	57.4		ug/Kg		115	75 - 135	0	20
Bromoform	50.0	66.2		ug/Kg		132	75 - 135	3	25
Bromomethane	50.0	52.2		ug/Kg		104	65 - 140	3	20
2-Butanone (MEK)	50.0	81.4		ug/Kg		163	25 - 170	3	30
Carbon tetrachloride	50.0	56.0		ug/Kg		112	65 - 130	1	20
Chlorobenzene	50.0	53.2		ug/Kg		106	70 - 120	0	20
Chloroethane	50.0	47.5		ug/Kg		95	60 - 135	2	25
Chloroform	50.0	52.9		ug/Kg		106	70 - 140	1	20
Chloromethane	50.0	48.2		ug/Kg		96	45 - 135	3	25
2-Chlorotoluene	50.0	53.9		ug/Kg		108	60 - 115	4	20
4-Chlorotoluene	50.0	54.8		ug/Kg		110	65 - 115	2	20
cis-1,2-Dichloroethene	50.0	54.0		ug/Kg		108	65 - 135	1	20
cis-1,3-Dichloropropene	50.0	58.2		ug/Kg		116	75 - 135	2	20
Dibromochloromethane	50.0	61.0		ug/Kg		122	75 - 135	1	20
1,2-Dibromo-3-Chloropropane	50.0	81.2	*	ug/Kg		162	75 - 150	4	30
1,2-Dibromoethane (EDB)	50.0	64.2		ug/Kg		128	85 - 140	0	20
Dibromomethane	50.0	61.7		ug/Kg		123	80 - 145	2	20
1,2-Dichlorobenzene	50.0	56.5		ug/Kg		113	75 - 125	3	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 115	3	20
1,4-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 120	3	20
Dichlorodifluoromethane	50.0	51.6		ug/Kg		103	35 - 160	4	30
1,1-Dichloroethane	50.0	53.9		ug/Kg		108	65 - 135	3	20
1,2-Dichloroethane	50.0	61.9		ug/Kg		124	80 - 140	0	20
1,1-Dichloroethene	50.0	52.8		ug/Kg		106	55 - 130	1	20
1,2-Dichloropropane	50.0	55.4		ug/Kg		111	65 - 130	1	20
1,3-Dichloropropane	50.0	59.6		ug/Kg		119	80 - 135	4	20
2,2-Dichloropropane	50.0	57.3		ug/Kg		115	65 - 140	1	20
1,1-Dichloropropene	50.0	56.1		ug/Kg		112	80 - 120	2	20
Ethylbenzene	50.0	54.2		ug/Kg		108	70 - 120	0	20
Hexachlorobutadiene	50.0	51.5		ug/Kg		103	60 - 140	7	20
Isopropylbenzene	50.0	58.7		ug/Kg		117	55 - 120	1	20
Methylene Chloride	50.0	46.0		ug/Kg		92	60 - 140	11	20
Methyl-t-Butyl Ether (MTBE)	50.0	65.2		ug/Kg		130	75 - 150	4	20
m,p-Xylene	50.0	55.6		ug/Kg		111	65 - 120	0	20
Naphthalene	50.0	75.0		ug/Kg		150	70 - 160	5	25
n-Butylbenzene	50.0	58.0	*	ug/Kg		116	65 - 115	7	20
N-Propylbenzene	50.0	57.6		ug/Kg		115	60 - 115	4	20
o-Xylene	50.0	57.7		ug/Kg		115	70 - 125	1	20
p-Isopropyltoluene	50.0	57.4		ug/Kg		115	70 - 120	4	20
sec-Butylbenzene	50.0	58.2		ug/Kg		116	70 - 120	6	20
Styrene	50.0	54.9		ug/Kg		110	75 - 130	1	20
tert-Butylbenzene	50.0	58.0		ug/Kg		116	70 - 125	5	20
1,1,1,2-Tetrachloroethane	50.0	57.1		ug/Kg		114	75 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	67.6		ug/Kg		135	75 - 150	2	30
Tetrachloroethene	50.0	52.5		ug/Kg		105	65 - 130	0	20
Toluene	50.0	55.6		ug/Kg		111	70 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	55.7		ug/Kg		111	65 - 135	4	20
trans-1,3-Dichloropropene			50.0	60.6		ug/Kg		121	75 - 145	0	20
1,2,3-Trichlorobenzene			50.0	59.7		ug/Kg		119	75 - 145	4	20
1,2,4-Trichlorobenzene			50.0	55.3		ug/Kg		111	70 - 145	4	20
1,1,1-Trichloroethane			50.0	55.4		ug/Kg		111	70 - 135	2	20
1,1,2-Trichloroethane			50.0	60.6		ug/Kg		121	80 - 145	3	20
Trichloroethene			50.0	55.5		ug/Kg		111	65 - 120	2	20
Trichlorofluoromethane			50.0	54.9		ug/Kg		110	60 - 145	1	25
1,2,3-Trichloropropane			50.0	74.1		ug/Kg		148	65 - 150	5	25
1,2,4-Trimethylbenzene			50.0	53.4		ug/Kg		107	65 - 115	3	20
1,3,5-Trimethylbenzene			50.0	58.3	*	ug/Kg		117	65 - 115	4	20
Vinyl chloride			50.0	49.8		ug/Kg		100	45 - 135	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*80 - 135*
Toluene-d8 (Surr)	*99*		*80 - 122*

Lab Sample ID: MB 440-449182/4
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Bromobenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Bromochloromethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Bromodichloromethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Bromoform	ND		1.0	0.40	ug/L			12/28/17 21:20	1
Bromomethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			12/28/17 21:20	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Chlorobenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Chloroethane	ND		1.0	0.40	ug/L			12/28/17 21:20	1
Chloroform	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Chloromethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Dibromochloromethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			12/28/17 21:20	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Dibromomethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			12/28/17 21:20	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-449182/4
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			12/28/17 21:20	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Ethylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Isopropylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Methylene Chloride	ND		2.0	0.88	ug/L			12/28/17 21:20	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			12/28/17 21:20	1
m,p-Xylene	ND		1.0	0.50	ug/L			12/28/17 21:20	1
Naphthalene	ND		1.0	0.40	ug/L			12/28/17 21:20	1
n-Butylbenzene	ND		1.0	0.40	ug/L			12/28/17 21:20	1
N-Propylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
o-Xylene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Styrene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Tetrachloroethene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Toluene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/17 21:20	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			12/28/17 21:20	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Trichloroethene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			12/28/17 21:20	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			12/28/17 21:20	1
Vinyl chloride	ND		0.50	0.25	ug/L			12/28/17 21:20	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*		*12/28/17 21:20*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*12/28/17 21:20*	*1*
Toluene-d8 (Surr)	*102*		*80 - 128*		*12/28/17 21:20*	*1*

Lab Sample ID: LCS 440-449182/5
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.0		ug/L		104	68 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-449182/5
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	25.0	24.8		ug/L		99	70 - 130
Bromochloromethane	25.0	24.6		ug/L		98	70 - 130
Bromodichloromethane	25.0	24.5		ug/L		98	70 - 132
Bromoform	25.0	23.6		ug/L		94	60 - 148
Bromomethane	25.0	21.6		ug/L		86	64 - 139
2-Butanone (MEK)	25.0	25.6		ug/L		103	44 - 150
Carbon tetrachloride	25.0	24.4		ug/L		97	60 - 150
Chlorobenzene	25.0	24.7		ug/L		99	70 - 130
Chloroethane	25.0	24.7		ug/L		99	64 - 135
Chloroform	25.0	25.3		ug/L		101	70 - 130
Chloromethane	25.0	24.3		ug/L		97	47 - 140
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Chlorotoluene	25.0	26.4		ug/L		106	70 - 130
cis-1,2-Dichloroethene	25.0	24.4		ug/L		98	70 - 133
cis-1,3-Dichloropropene	25.0	24.9		ug/L		99	70 - 133
Dibromochloromethane	25.0	24.1		ug/L		97	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	24.2		ug/L		97	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.4		ug/L		97	70 - 130
Dibromomethane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,3-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	25.0	25.7		ug/L		103	70 - 130
Dichlorodifluoromethane	25.0	21.1		ug/L		84	29 - 150
1,1-Dichloroethane	25.0	26.1		ug/L		104	64 - 130
1,2-Dichloroethane	25.0	24.5		ug/L		98	57 - 138
1,1-Dichloroethene	25.0	23.7		ug/L		95	70 - 130
1,2-Dichloropropane	25.0	26.0		ug/L		104	67 - 130
1,3-Dichloropropane	25.0	24.7		ug/L		99	70 - 130
2,2-Dichloropropane	25.0	26.4		ug/L		106	68 - 141
1,1-Dichloropropene	25.0	25.2		ug/L		101	70 - 130
Ethylbenzene	25.0	24.7		ug/L		99	70 - 130
Hexachlorobutadiene	25.0	23.9		ug/L		95	10 - 150
Isopropylbenzene	25.0	25.2		ug/L		101	70 - 136
Methylene Chloride	25.0	23.8		ug/L		95	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.8		ug/L		95	63 - 131
m,p-Xylene	25.0	25.0		ug/L		100	70 - 130
Naphthalene	25.0	24.6		ug/L		99	60 - 140
n-Butylbenzene	25.0	25.9		ug/L		104	65 - 150
N-Propylbenzene	25.0	26.5		ug/L		106	67 - 139
o-Xylene	25.0	25.3		ug/L		101	70 - 130
p-Isopropyltoluene	25.0	25.8		ug/L		103	70 - 132
sec-Butylbenzene	25.0	26.2		ug/L		105	70 - 138
Styrene	25.0	25.1		ug/L		100	70 - 134
tert-Butylbenzene	25.0	25.7		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	25.0	22.1		ug/L		88	60 - 141
1,1,2,2-Tetrachloroethane	25.0	25.8		ug/L		103	63 - 130
Tetrachloroethene	25.0	24.3		ug/L		97	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-449182/5
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	25.0	24.6		ug/L		98	70 - 130
trans-1,3-Dichloropropene	25.0	23.7		ug/L		95	70 - 132
1,2,3-Trichlorobenzene	25.0	25.5		ug/L		102	60 - 140
1,2,4-Trichlorobenzene	25.0	24.7		ug/L		99	60 - 140
1,1,1-Trichloroethane	25.0	24.1		ug/L		96	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		102	70 - 130
Trichloroethene	25.0	24.4		ug/L		98	70 - 130
Trichlorofluoromethane	25.0	22.4		ug/L		89	60 - 150
1,2,3-Trichloropropane	25.0	25.3		ug/L		101	63 - 130
1,2,4-Trimethylbenzene	25.0	25.9		ug/L		104	70 - 135
1,3,5-Trimethylbenzene	25.0	25.7		ug/L		103	70 - 136
Vinyl chloride	25.0	23.8		ug/L		95	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Lab Sample ID: 440-198996-A-1 MS
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	27.4		ug/L		110	66 - 130
Bromobenzene	ND		25.0	26.9		ug/L		108	70 - 130
Bromochloromethane	ND		25.0	26.8		ug/L		107	70 - 130
Bromodichloromethane	ND		25.0	26.9		ug/L		108	70 - 138
Bromoform	ND		25.0	25.8		ug/L		103	59 - 150
Bromomethane	ND		25.0	22.3		ug/L		89	62 - 131
2-Butanone (MEK)	ND		25.0	27.6		ug/L		110	48 - 140
Carbon tetrachloride	ND		25.0	25.6		ug/L		103	60 - 150
Chlorobenzene	ND		25.0	26.7		ug/L		107	70 - 130
Chloroethane	ND		25.0	26.0		ug/L		104	68 - 130
Chloroform	ND		25.0	27.0		ug/L		108	70 - 130
Chloromethane	ND		25.0	25.0		ug/L		100	39 - 144
2-Chlorotoluene	ND		25.0	28.0		ug/L		112	70 - 130
4-Chlorotoluene	ND		25.0	28.5		ug/L		114	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.0		ug/L		104	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.4		ug/L		110	70 - 133
Dibromochloromethane	ND		25.0	26.6		ug/L		106	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	26.2		ug/L		105	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.8		ug/L		107	70 - 131
Dibromomethane	ND		25.0	26.0		ug/L		104	70 - 130
1,2-Dichlorobenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,3-Dichlorobenzene	ND		25.0	28.1		ug/L		112	70 - 130
1,4-Dichlorobenzene	ND		25.0	27.9		ug/L		111	70 - 130
Dichlorodifluoromethane	ND		25.0	21.7		ug/L		87	25 - 142
1,1-Dichloroethane	ND		25.0	27.9		ug/L		112	65 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-198996-A-1 MS
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	ND		25.0	26.5		ug/L		106	56 - 146
1,1-Dichloroethene	ND		25.0	24.3		ug/L		97	70 - 130
1,2-Dichloropropane	ND		25.0	27.8		ug/L		111	69 - 130
1,3-Dichloropropane	ND		25.0	27.3		ug/L		109	70 - 130
2,2-Dichloropropane	ND		25.0	28.8		ug/L		115	69 - 138
1,1-Dichloropropene	ND		25.0	26.9		ug/L		108	64 - 130
Ethylbenzene	ND		25.0	27.1		ug/L		108	70 - 130
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	10 - 150
Isopropylbenzene	ND		25.0	27.4		ug/L		109	70 - 132
Methylene Chloride	ND		25.0	25.2		ug/L		101	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.1		ug/L		104	70 - 130
m,p-Xylene	ND		25.0	27.5		ug/L		110	70 - 133
Naphthalene	ND		25.0	27.1		ug/L		109	60 - 140
n-Butylbenzene	ND		25.0	27.4		ug/L		110	61 - 149
N-Propylbenzene	ND		25.0	28.7		ug/L		115	66 - 135
o-Xylene	ND		25.0	27.6		ug/L		110	70 - 133
p-Isopropyltoluene	ND		25.0	27.5		ug/L		110	70 - 130
sec-Butylbenzene	ND		25.0	28.2		ug/L		113	67 - 134
Styrene	ND		25.0	27.5		ug/L		110	29 - 150
tert-Butylbenzene	ND		25.0	27.4		ug/L		110	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	23.8		ug/L		95	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	28.5		ug/L		114	63 - 130
Tetrachloroethene	ND		25.0	26.7		ug/L		107	70 - 137
Toluene	ND		25.0	27.4		ug/L		110	70 - 130
trans-1,2-Dichloroethene	ND		25.0	25.9		ug/L		103	70 - 130
trans-1,3-Dichloropropene	ND		25.0	26.6		ug/L		107	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	28.1		ug/L		112	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.5		ug/L		106	60 - 140
1,1,1-Trichloroethane	ND		25.0	25.7		ug/L		103	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.7		ug/L		111	70 - 130
Trichloroethene	ND		25.0	26.2		ug/L		105	70 - 130
Trichlorofluoromethane	ND		25.0	23.1		ug/L		92	60 - 150
1,2,3-Trichloropropane	ND		25.0	27.9		ug/L		112	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	27.6		ug/L		110	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	ND		25.0	24.6		ug/L		98	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*98*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-198996-A-1 MSD
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	27.3		ug/L		109	66 - 130	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-198996-A-1 MSD
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	ND		25.0	27.0		ug/L		108	70 - 130	1	20
Bromochloromethane	ND		25.0	25.9		ug/L		104	70 - 130	3	25
Bromodichloromethane	ND		25.0	26.8		ug/L		107	70 - 138	0	20
Bromoform	ND		25.0	25.3		ug/L		101	59 - 150	2	25
Bromomethane	ND		25.0	22.6		ug/L		90	62 - 131	1	25
2-Butanone (MEK)	ND		25.0	26.7		ug/L		107	48 - 140	3	40
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	60 - 150	0	25
Chlorobenzene	ND		25.0	26.5		ug/L		106	70 - 130	0	20
Chloroethane	ND		25.0	26.0		ug/L		104	68 - 130	0	25
Chloroform	ND		25.0	26.6		ug/L		106	70 - 130	2	20
Chloromethane	ND		25.0	25.1		ug/L		100	39 - 144	0	25
2-Chlorotoluene	ND		25.0	27.8		ug/L		111	70 - 130	1	20
4-Chlorotoluene	ND		25.0	27.9		ug/L		111	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	25.4		ug/L		102	70 - 130	2	20
cis-1,3-Dichloropropene	ND		25.0	27.0		ug/L		108	70 - 133	1	20
Dibromochloromethane	ND		25.0	26.1		ug/L		105	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	25.0		ug/L		100	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		25.0	26.2		ug/L		105	70 - 131	2	25
Dibromomethane	ND		25.0	25.3		ug/L		101	70 - 130	3	25
1,2-Dichlorobenzene	ND		25.0	27.7		ug/L		111	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	27.7		ug/L		111	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	27.7		ug/L		111	70 - 130	1	20
Dichlorodifluoromethane	ND		25.0	21.8		ug/L		87	25 - 142	0	30
1,1-Dichloroethane	ND		25.0	27.4		ug/L		109	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	26.0		ug/L		104	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	24.8		ug/L		99	70 - 130	2	20
1,2-Dichloropropane	ND		25.0	27.3		ug/L		109	69 - 130	2	20
1,3-Dichloropropane	ND		25.0	26.6		ug/L		106	70 - 130	3	25
2,2-Dichloropropane	ND		25.0	28.2		ug/L		113	69 - 138	2	25
1,1-Dichloropropene	ND		25.0	26.7		ug/L		107	64 - 130	1	20
Ethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130	2	20
Hexachlorobutadiene	ND		25.0	26.1		ug/L		104	10 - 150	2	20
Isopropylbenzene	ND		25.0	27.0		ug/L		108	70 - 132	1	20
Methylene Chloride	ND		25.0	25.0		ug/L		100	52 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.0		ug/L		100	70 - 130	4	25
m,p-Xylene	ND		25.0	26.7		ug/L		107	70 - 133	3	25
Naphthalene	ND		25.0	26.7		ug/L		107	60 - 140	2	30
n-Butylbenzene	ND		25.0	28.1		ug/L		112	61 - 149	2	20
N-Propylbenzene	ND		25.0	28.1		ug/L		112	66 - 135	2	20
o-Xylene	ND		25.0	27.2		ug/L		109	70 - 133	2	20
p-Isopropyltoluene	ND		25.0	27.7		ug/L		111	70 - 130	1	20
sec-Butylbenzene	ND		25.0	27.9		ug/L		112	67 - 134	1	20
Styrene	ND		25.0	27.0		ug/L		108	29 - 150	2	35
tert-Butylbenzene	ND		25.0	27.4		ug/L		110	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	23.7		ug/L		95	60 - 149	1	20
1,1,2,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	63 - 130	4	30
Tetrachloroethene	ND		25.0	26.1		ug/L		104	70 - 137	2	20
Toluene	ND		25.0	27.1		ug/L		108	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-198996-A-1 MSD
Matrix: Water
Analysis Batch: 449182

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene	ND		25.0	25.7		ug/L		103	70 - 130	1	20
trans-1,3-Dichloropropene	ND		25.0	26.3		ug/L		105	70 - 138	1	25
1,2,3-Trichlorobenzene	ND		25.0	27.7		ug/L		111	60 - 140	1	20
1,2,4-Trichlorobenzene	ND		25.0	26.6		ug/L		106	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	25.4		ug/L		102	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	27.8		ug/L		111	70 - 130	0	25
Trichloroethene	ND		25.0	25.8		ug/L		103	70 - 130	1	20
Trichlorofluoromethane	ND		25.0	23.4		ug/L		93	60 - 150	1	25
1,2,3-Trichloropropane	ND		25.0	27.4		ug/L		110	60 - 130	2	30
1,2,4-Trimethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	27.7		ug/L		111	70 - 130	0	20
Vinyl chloride	ND		25.0	24.6		ug/L		98	50 - 137	0	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-448741/5
Matrix: Water
Analysis Batch: 448741

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			12/27/17 10:52	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*65 - 140*		*12/27/17 10:52*	*1*

Lab Sample ID: LCS 440-448741/4
Matrix: Water
Analysis Batch: 448741

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	866		ug/L		108	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*112*		*65 - 140*

Lab Sample ID: 440-198645-A-37 MS
Matrix: Water
Analysis Batch: 448741

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	864		ug/L		108	65 - 140

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-198645-A-37 MS
Matrix: Water
Analysis Batch: 448741

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	109		65 - 140

Lab Sample ID: 440-198645-A-37 MSD
Matrix: Water
Analysis Batch: 448741

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	877		ug/L		110	65 - 140	1	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	108		65 - 140

Lab Sample ID: MB 440-448956/5
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/28/17 09:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	85		65 - 140		12/28/17 09:26	1

Lab Sample ID: LCS 440-448956/3
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1910		ug/Kg		119	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	124		65 - 140

Lab Sample ID: LCSD 440-448956/4
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1890		ug/Kg		118	70 - 135	1	20

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		65 - 140

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-199084-A-1 MS
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1590	1260		ug/Kg		79	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*65 - 140*

Lab Sample ID: 440-199084-A-1 MSD
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1090		ug/Kg		68	60 - 140	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*81*		*65 - 140*

Lab Sample ID: MB 440-449230/5
Matrix: Solid
Analysis Batch: 449230

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/29/17 10:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*65 - 140*		*12/29/17 10:06*	*1*

Lab Sample ID: LCS 440-449230/3
Matrix: Solid
Analysis Batch: 449230

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1660		ug/Kg		104	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*65 - 140*

Lab Sample ID: LCSD 440-449230/4
Matrix: Solid
Analysis Batch: 449230

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1660		ug/Kg		104	70 - 135	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-199111-E-7 MS
Matrix: Solid
Analysis Batch: 449230

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		1590	1630		ug/Kg		103	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*

Lab Sample ID: 440-199111-E-7 MSD
Matrix: Solid
Analysis Batch: 449230

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1620		ug/Kg		101	60 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-448460/1-A
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 16:36	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*12/23/17 07:09*	*12/23/17 16:36*	*1*

Lab Sample ID: LCS 440-448460/2-A
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448460

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28			66.4	56.5		mg/Kg		85	45 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*89*		*40 - 140*

Lab Sample ID: 440-199041-E-1-A MS
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	17	F2 B	66.5	76.2		mg/Kg		88	40 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-199041-E-1-A MS
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448460

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	75		40 - 140

Lab Sample ID: 440-199041-E-1-B MSD
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	17	F2 B	66.6	52.5	F2	mg/Kg		53	40 - 120	37	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	82		40 - 140

Lab Sample ID: MB 440-448690/1-A
Matrix: Water
Analysis Batch: 448898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448690

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		12/27/17 06:24	12/27/17 22:21	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		12/27/17 06:24	12/27/17 22:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	76		45 - 120	12/27/17 06:24	12/27/17 22:21	1

Lab Sample ID: LCS 440-448690/2-A
Matrix: Water
Analysis Batch: 448898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448690

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1.00	0.647		mg/L		65	40 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	72		45 - 120

Lab Sample ID: LCSD 440-448690/3-A
Matrix: Water
Analysis Batch: 448898

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448690

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1.00	0.596		mg/L		60	40 - 115	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	58		45 - 120

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-448689/1-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448689

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1221	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1232	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1242	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1248	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1254	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1
Aroclor 1260	ND		1.0	0.50	ug/L		12/27/17 06:21	12/27/17 13:56	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*	*12/27/17 06:21*	*12/27/17 13:56*	*1*

Lab Sample ID: LCS 440-448689/4-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448689

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.66		ug/L		91	59 - 115		
Aroclor 1260			4.00	3.55		ug/L		89	48 - 115		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*

Lab Sample ID: LCSD 440-448689/5-A
Matrix: Water
Analysis Batch: 448718

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 448689

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.70		ug/L		92	59 - 115	1	30
Aroclor 1260			4.00	3.74		ug/L		94	48 - 115	5	30

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*81*		*26 - 115*

Lab Sample ID: MB 440-448949/1-A
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1221	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1232	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1242	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1248	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1254	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1
Aroclor 1260	ND		50	17	ug/Kg		12/28/17 06:47	12/29/17 11:40	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-448949/1-A
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448949

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	88		45 - 120	12/28/17 06:47	12/29/17 11:40	1

Lab Sample ID: LCS 440-448949/2-A
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448949

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			267	260		ug/Kg		97	65 - 115		
Aroclor 1260			267	265		ug/Kg		99	65 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	81		45 - 120

Lab Sample ID: 440-199024-G-1-F MS
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448949

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016	ND		267	253		ug/Kg		95	50 - 120		
Aroclor 1260	ND		267	264		ug/Kg		99	50 - 125		

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	85		45 - 120

Lab Sample ID: 440-199024-G-1-G MSD
Matrix: Solid
Analysis Batch: 449223

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448949

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		267	245		ug/Kg		92	50 - 120	5	30
Aroclor 1260	ND		267	254		ug/Kg		95	50 - 125	6	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	83		45 - 120

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448722/1-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Arsenic	ND		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Barium	ND		1.5	0.74	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Beryllium	ND		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Cadmium	ND		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 17:09	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-448722/1-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chromium	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Cobalt	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Copper	ND		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Lead	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Molybdenum	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Nickel	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Silver	ND		1.5	0.88	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Thallium	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Vanadium	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Zinc	ND		4.9	2.5	mg/Kg		12/27/17 08:47	12/27/17 17:09	5

Lab Sample ID: LCS 440-448722/2-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	47.1		mg/Kg		95	80 - 120
Arsenic	49.8	46.0		mg/Kg		92	80 - 120
Barium	49.8	46.5		mg/Kg		93	80 - 120
Beryllium	49.8	46.1		mg/Kg		93	80 - 120
Cadmium	49.8	46.5		mg/Kg		93	80 - 120
Chromium	49.8	47.6		mg/Kg		96	80 - 120
Cobalt	49.8	47.4		mg/Kg		95	80 - 120
Copper	49.8	47.5		mg/Kg		96	80 - 120
Lead	49.8	47.4		mg/Kg		95	80 - 120
Molybdenum	49.8	47.3		mg/Kg		95	80 - 120
Nickel	49.8	47.4		mg/Kg		95	80 - 120
Selenium	49.8	42.8		mg/Kg		86	80 - 120
Silver	24.9	23.4		mg/Kg		94	80 - 120
Thallium	49.8	46.8		mg/Kg		94	80 - 120
Vanadium	49.8	47.1		mg/Kg		95	80 - 120
Zinc	49.8	46.2		mg/Kg		93	80 - 120

Lab Sample ID: 440-198997-K-24-C MS ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		49.3	39.4		mg/Kg		80	75 - 125
Arsenic	ND		49.3	46.4		mg/Kg		94	75 - 125
Barium	29		49.3	79.1		mg/Kg		102	75 - 125
Beryllium	ND		49.3	46.4		mg/Kg		94	75 - 125
Cadmium	ND		49.3	45.8		mg/Kg		93	75 - 125
Chromium	3.9		49.3	50.8		mg/Kg		95	75 - 125
Cobalt	1.7		49.3	47.7		mg/Kg		93	75 - 125
Copper	4.0		49.3	51.9		mg/Kg		97	75 - 125
Lead	1.2	J	49.3	47.3		mg/Kg		94	75 - 125
Molybdenum	ND		49.3	46.7		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198997-K-24-C MS ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nickel	2.1		49.3	47.6		mg/Kg		92	75 - 125
Selenium	ND		49.3	43.3		mg/Kg		88	75 - 125
Silver	ND		24.6	23.2		mg/Kg		94	75 - 125
Thallium	ND		49.3	47.0		mg/Kg		95	75 - 125
Vanadium	13		49.3	61.7		mg/Kg		99	75 - 125
Zinc	15		49.3	58.0		mg/Kg		87	75 - 125

Lab Sample ID: 440-198997-K-24-D MSD ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.5	40.4		mg/Kg		82	75 - 125	2	20
Arsenic	ND		49.5	48.0		mg/Kg		97	75 - 125	3	20
Barium	29		49.5	84.8		mg/Kg		113	75 - 125	7	20
Beryllium	ND		49.5	47.2		mg/Kg		95	75 - 125	2	20
Cadmium	ND		49.5	46.1		mg/Kg		93	75 - 125	1	20
Chromium	3.9		49.5	51.5		mg/Kg		96	75 - 125	1	20
Cobalt	1.7		49.5	48.3		mg/Kg		94	75 - 125	1	20
Copper	4.0		49.5	52.6		mg/Kg		98	75 - 125	1	20
Lead	1.2	J	49.5	48.2		mg/Kg		95	75 - 125	2	20
Molybdenum	ND		49.5	47.2		mg/Kg		95	75 - 125	1	20
Nickel	2.1		49.5	48.3		mg/Kg		93	75 - 125	1	20
Selenium	ND		49.5	44.2		mg/Kg		89	75 - 125	2	20
Silver	ND		24.8	23.4		mg/Kg		95	75 - 125	1	20
Thallium	ND		49.5	47.3		mg/Kg		95	75 - 125	1	20
Vanadium	13		49.5	61.6		mg/Kg		99	75 - 125	0	20
Zinc	15		49.5	60.2		mg/Kg		91	75 - 125	4	20

Lab Sample ID: MB 440-448965/1-A
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.010	0.0060	mg/L		12/28/17 08:17	12/28/17 17:16	1
Arsenic	ND		0.010	0.0089	mg/L		12/28/17 08:17	12/28/17 17:16	1
Barium	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1
Beryllium	ND		0.0020	0.0010	mg/L		12/28/17 08:17	12/28/17 17:16	1
Cadmium	ND		0.0050	0.0025	mg/L		12/28/17 08:17	12/28/17 17:16	1
Chromium	ND		0.0050	0.0025	mg/L		12/28/17 08:17	12/28/17 17:16	1
Cobalt	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1
Copper	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1
Lead	ND		0.0050	0.0038	mg/L		12/28/17 08:17	12/28/17 17:16	1
Molybdenum	ND		0.020	0.010	mg/L		12/28/17 08:17	12/28/17 17:16	1
Nickel	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1
Selenium	ND		0.010	0.0087	mg/L		12/28/17 08:17	12/28/17 17:16	1
Silver	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1
Thallium	ND		0.010	0.0080	mg/L		12/28/17 08:17	12/28/17 17:16	1
Vanadium	ND		0.010	0.0050	mg/L		12/28/17 08:17	12/28/17 17:16	1

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-448965/1-A
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	ND		0.020	0.012	mg/L		12/28/17 08:17	12/28/17 17:16	1

Lab Sample ID: LCS 440-448965/2-A
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	1.00	1.06		mg/L		106	80 - 120
Arsenic	1.00	1.07		mg/L		107	80 - 120
Barium	1.00	1.01		mg/L		101	80 - 120
Beryllium	1.00	1.06		mg/L		106	80 - 120
Cadmium	1.00	1.05		mg/L		105	80 - 120
Chromium	1.00	1.06		mg/L		106	80 - 120
Cobalt	1.00	1.05		mg/L		105	80 - 120
Copper	1.00	1.08		mg/L		108	80 - 120
Lead	1.00	1.05		mg/L		105	80 - 120
Molybdenum	1.00	1.07		mg/L		107	80 - 120
Nickel	1.00	1.06		mg/L		106	80 - 120
Selenium	1.00	1.03		mg/L		103	80 - 120
Silver	0.500	0.492		mg/L		98	80 - 120
Thallium	1.00	0.993		mg/L		99	80 - 120
Vanadium	1.00	1.06		mg/L		106	80 - 120
Zinc	1.00	1.05		mg/L		105	80 - 120

Lab Sample ID: 440-198798-D-91-B MS
Matrix: Water
Analysis Batch: 449164

Client Sample ID: Matrix Spike
Prep Type: Total Recoverable
Prep Batch: 448965

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		1.00	1.03		mg/L		103	75 - 125
Arsenic	ND		1.00	1.03		mg/L		103	75 - 125
Barium	0.11		1.00	1.11		mg/L		100	75 - 125
Beryllium	ND		1.00	1.02		mg/L		102	75 - 125
Cadmium	ND		1.00	1.02		mg/L		102	75 - 125
Chromium	ND		1.00	1.02		mg/L		102	75 - 125
Cobalt	ND		1.00	1.02		mg/L		102	75 - 125
Copper	ND		1.00	1.04		mg/L		104	75 - 125
Lead	ND		1.00	1.01		mg/L		101	75 - 125
Molybdenum	ND		1.00	1.04		mg/L		104	75 - 125
Nickel	ND		1.00	1.02		mg/L		102	75 - 125
Selenium	ND		1.00	0.988		mg/L		99	75 - 125
Silver	ND		0.500	0.475		mg/L		95	75 - 125
Thallium	ND		1.00	0.979		mg/L		98	75 - 125
Vanadium	ND		1.00	1.03		mg/L		103	75 - 125
Zinc	ND		1.00	1.01		mg/L		101	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198798-D-91-C MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total Recoverable**
Analysis Batch: 449164 — **Prep Batch: 448965**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		1.00	0.974		mg/L		97	75 - 125	5	20
Arsenic	ND		1.00	0.984		mg/L		98	75 - 125	4	20
Barium	0.11		1.00	1.05		mg/L		94	75 - 125	5	20
Beryllium	ND		1.00	0.975		mg/L		98	75 - 125	5	20
Cadmium	ND		1.00	0.969		mg/L		97	75 - 125	5	20
Chromium	ND		1.00	0.975		mg/L		97	75 - 125	5	20
Cobalt	ND		1.00	0.971		mg/L		97	75 - 125	5	20
Copper	ND		1.00	0.992		mg/L		99	75 - 125	5	20
Lead	ND		1.00	0.965		mg/L		96	75 - 125	5	20
Molybdenum	ND		1.00	0.993		mg/L		99	75 - 125	5	20
Nickel	ND		1.00	0.974		mg/L		97	75 - 125	5	20
Selenium	ND		1.00	0.944		mg/L		94	75 - 125	5	20
Silver	ND		0.500	0.454		mg/L		91	75 - 125	4	20
Thallium	ND		1.00	0.939		mg/L		94	75 - 125	4	20
Vanadium	ND		1.00	0.978		mg/L		98	75 - 125	5	20
Zinc	ND		1.00	0.969		mg/L		97	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 440-448984/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 449139 — **Prep Batch: 448984**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.00020	0.00010	mg/L		12/28/17 09:02	12/28/17 15:06	1

Lab Sample ID: LCS 440-448984/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 449139 — **Prep Batch: 448984**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.00800	0.00782		mg/L		98	80 - 120		

Lab Sample ID: 440-198787-H-8-D MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 449139 — **Prep Batch: 448984**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		0.00800	0.00774		mg/L		97	70 - 130		

Lab Sample ID: 440-198787-H-8-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 449139 — **Prep Batch: 448984**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		0.00800	0.00804		mg/L		100	70 - 130	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-448579/1-A
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 20:57	1

Lab Sample ID: LCS 440-448579/2-A
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448579

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			0.800	0.831		mg/Kg		104	80 - 120		

Lab Sample ID: 440-199019-A-1-E MS
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	0.036		0.800	0.792		mg/Kg		95	70 - 130		

Lab Sample ID: 440-199019-A-1-F MSD
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.036		0.784	0.766		mg/Kg		93	70 - 130	3	20

GC/MS VOA

Analysis Batch: 448948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	8260B	449019
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	8260B	449019
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	8260B	449019
MB 440-448948/3	Method Blank	Total/NA	Solid	8260B	
LCS 440-448948/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-448948/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 449019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	5035	
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	5035	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	5035	

Analysis Batch: 449182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	8260B	
440-199046-9	TB	Total/NA	Water	8260B	
MB 440-449182/4	Method Blank	Total/NA	Water	8260B	
LCS 440-449182/5	Lab Control Sample	Total/NA	Water	8260B	
440-198996-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-198996-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 448741

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	8015B	
MB 440-448741/5	Method Blank	Total/NA	Water	8015B	
LCS 440-448741/4	Lab Control Sample	Total/NA	Water	8015B	
440-198645-A-37 MS	Matrix Spike	Total/NA	Water	8015B	
440-198645-A-37 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

Analysis Batch: 448956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	8015B	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	8015B	
MB 440-448956/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-448956/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-448956/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-199084-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-199084-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

Analysis Batch: 449230

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	8015B	
MB 440-449230/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-449230/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-449230/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-199111-E-7 MS	Matrix Spike	Total/NA	Solid	8015B	
440-199111-E-7 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 448460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	3546	
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	3546	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	3546	
MB 440-448460/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-448460/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199041-E-1-A MS	Matrix Spike	Total/NA	Solid	3546	
440-199041-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 448503

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	8015B	448460
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	8015B	448460
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	8015B	448460

Analysis Batch: 448504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-448460/1-A	Method Blank	Total/NA	Solid	8015B	448460
LCS 440-448460/2-A	Lab Control Sample	Total/NA	Solid	8015B	448460
440-199041-E-1-A MS	Matrix Spike	Total/NA	Solid	8015B	448460
440-199041-E-1-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	448460

Prep Batch: 448689

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	3510C	
MB 440-448689/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 448690

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	3510C	
MB 440-448690/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-448690/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-448690/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 448718

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	8082	448689
MB 440-448689/1-A	Method Blank	Total/NA	Water	8082	448689
LCS 440-448689/4-A	Lab Control Sample	Total/NA	Water	8082	448689
LCSD 440-448689/5-A	Lab Control Sample Dup	Total/NA	Water	8082	448689

Analysis Batch: 448898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	8015B	448690
MB 440-448690/1-A	Method Blank	Total/NA	Water	8015B	448690
LCS 440-448690/2-A	Lab Control Sample	Total/NA	Water	8015B	448690
LCSD 440-448690/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	448690

GC Semi VOA (Continued)

Prep Batch: 448949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	3546	
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	3546	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	3546	
MB 440-448949/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-448949/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199024-G-1-F MS	Matrix Spike	Total/NA	Solid	3546	
440-199024-G-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 449223

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	8082	448949
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	8082	448949
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	8082	448949
MB 440-448949/1-A	Method Blank	Total/NA	Solid	8082	448949
LCS 440-448949/2-A	Lab Control Sample	Total/NA	Solid	8082	448949
440-199024-G-1-F MS	Matrix Spike	Total/NA	Solid	8082	448949
440-199024-G-1-G MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	448949

Metals

Prep Batch: 448579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	7471A	
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	7471A	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	7471A	
MB 440-448579/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-448579/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-199019-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	
440-199019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 448722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	3050B	
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	3050B	
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	3050B	
MB 440-448722/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448722/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198997-K-24-C MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198997-K-24-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 448893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	6010B	448722
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	6010B	448722
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	6010B	448722
MB 440-448722/1-A ^5	Method Blank	Total/NA	Solid	6010B	448722
LCS 440-448722/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448722
440-198997-K-24-C MS ^5	Matrix Spike	Total/NA	Solid	6010B	448722
440-198997-K-24-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	448722

Metals (Continued)

Prep Batch: 448965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total Recoverable	Water	3005A	
MB 440-448965/1-A	Method Blank	Total Recoverable	Water	3005A	
LCS 440-448965/2-A	Lab Control Sample	Total Recoverable	Water	3005A	
440-198798-D-91-B MS	Matrix Spike	Total Recoverable	Water	3005A	
440-198798-D-91-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	3005A	

Prep Batch: 448984

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	7470A	
MB 440-448984/1-A	Method Blank	Total/NA	Water	7470A	
LCS 440-448984/2-A	Lab Control Sample	Total/NA	Water	7470A	
440-198787-H-8-D MS	Matrix Spike	Total/NA	Water	7470A	
440-198787-H-8-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 449054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-1	AOC4-B2-5.0	Total/NA	Solid	7471A	448579
440-199046-4	AOC4-B1-5.0	Total/NA	Solid	7471A	448579
440-199046-5	AOC4-B1-5.0 DUP	Total/NA	Solid	7471A	448579
MB 440-448579/1-A	Method Blank	Total/NA	Solid	7471A	448579
LCS 440-448579/2-A	Lab Control Sample	Total/NA	Solid	7471A	448579
440-199019-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	448579
440-199019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	448579

Analysis Batch: 449139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total/NA	Water	7470A	448984
MB 440-448984/1-A	Method Blank	Total/NA	Water	7470A	448984
LCS 440-448984/2-A	Lab Control Sample	Total/NA	Water	7470A	448984
440-198787-H-8-D MS	Matrix Spike	Total/NA	Water	7470A	448984
440-198787-H-8-E MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	448984

Analysis Batch: 449164

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199046-8	EB-2017-12-22	Total Recoverable	Water	6010B	448965
MB 440-448965/1-A	Method Blank	Total Recoverable	Water	6010B	448965
LCS 440-448965/2-A	Lab Control Sample	Total Recoverable	Water	6010B	448965
440-198798-D-91-B MS	Matrix Spike	Total Recoverable	Water	6010B	448965
440-198798-D-91-C MSD	Matrix Spike Duplicate	Total Recoverable	Water	6010B	448965

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	ISTD response or retention time outside acceptable limits

GC Semi VOA

Qualifier	Qualifier Description
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199046-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

TestAmerica Laboratories, Inc.

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12-22-17	COC No: 1 of 1 COCs
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier: TA	
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____Std_____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPHs	Title 22 Metals	PCBs	VOCs	OCPs	Sample Specific Notes:
AOC4-B2-5.0	12-22-17	720	G	Soil	5			X	X	X	X		
AOC4-B2-10		735	G		5			X	X	X	X		Hold
AOC4-B2-15		758	G		5			X	X	X	X		Hold
AOC4-B1-5.0		835	G		5			X	X	X	X		
AOC4-B1-5.0 Dup		835	G		5			X	X	X	X		
AOC4-B1-10		902	G		5			X	X	X	X		Hold
AOC4-B1-15		910	G		5			X	X	X	X		Hold
EB-2017-12-22		1030	G	water	2			X	X	X	X		
TB		—	—	water	2						X		

440-199046 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be a …nth)

☐Return to Client ☑Disposal by Lab ☐Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: _____ Corr'd: _____	Therm ID No.:
Relinquished by: Pete Shyr	Company: Parsons	Date/Time: 12-22-17 1040	Received by:	Company: TA	Date/Time: 12/22/17 1040
Relinquished by:	Company: TA	Date/Time: 12/22/17 1800	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-I	Date/Time: 12/22/17 1800

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3.7/4.3 .8/1.4 IR-4C

12/30/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199046-1

Login Number: 199046

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-207103-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
4/4/2018 10:57:37 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 7
Surrogate Summary 29
Method Summary 32
Lab Chronicle 33
QC Sample Results 36
QC Association Summary 53
Definitions/Glossary 57
Certification Summary 58
Chain of Custody 59
Receipt Checklists 60

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-207103-1	AOC4-SV10-5	Solid	03/26/18 08:15	03/26/18 18:40
440-207103-2	AOC4-SV10-15	Solid	03/26/18 08:50	03/26/18 18:40
440-207103-3	AOC4-SV9-5	Solid	03/26/18 09:10	03/26/18 18:40
440-207103-4	AOC4-SV9-15	Solid	03/26/18 09:45	03/26/18 18:40
440-207103-5	AOC4-SV9-15d	Solid	03/26/18 09:46	03/26/18 18:40
440-207103-6	AOC4-SV8-5	Solid	03/26/18 10:40	03/26/18 18:40
440-207103-7	AOC4-SV8-15	Solid	03/26/18 11:00	03/26/18 18:40
440-207103-8	AOC4-SV6-5	Solid	03/26/18 11:35	03/26/18 18:40
440-207103-9	AOC4-SV6-15	Solid	03/26/18 11:50	03/26/18 18:40
440-207103-10	F032618B	Water	03/26/18 12:00	03/26/18 18:40
440-207103-11	TB	Water	03/26/18 00:01	03/26/18 18:40

Job ID: 440-207103-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-207103-1

Comments
No additional comments.

Receipt
The samples were received on 3/26/2018 6:40 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.5º C.

GC/MS VOA
Method(s) 8260B: Internal standard (ISTD) 1,4-Dichlorobenzene-d4 response for the following sample was below the lower control limit: AOC4-SV9-5 (440-207103-3). The sample was re-extracted and/or re-analyzed with concurring results. Affected analytes would be potentially biased high, but all affected results were ND in the sample.

Method(s) 8260B: Internal standards (ISTD) 1,4-Dichlorobenzene-d4 and Chlorobenzene-d5 responses for the following sample were below the lower control limit: AOC4-SV6-5 (440-207103-8). The sample was re-extracted and/or re-analyzed with concurring results. Affected analytes would be potentially biased high.

Method(s) 8260B: Surrogate Toluene-d8 recovery for the following sample was above the upper control limit: AOC4-SV6-5 (440-207103-8). Re-extraction and/or re-analysis was performed with concurring results.

Method(s) 8260B: The laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for analytical batch 440-466784 recovered outside control limits for 1,2-Dibromo-3-Chloropropane. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 440-467331 were outside control limits. The associated laboratory control sample (LCS) recovery met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-466303 and analytical batch 440-466390. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

Method(s) 8015B: The method blank for preparation batch 440-466419 and analytical batch 440-466582 contained ORO (C23-C40) above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-466355 and analytical batch 440-466565. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV10-5 — Lab Sample ID: 440-207103-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.3		1.6	0.82	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	6.1	J	8.2	4.1	ug/Kg	1		8260B	Total/NA
Ethylbenzene	1.5	J	1.6	0.82	ug/Kg	1		8260B	Total/NA
Naphthalene	1.7	J	4.1	1.6	ug/Kg	1		8260B	Total/NA
Tetrachloroethene	1.2	J	1.6	0.82	ug/Kg	1		8260B	Total/NA
Toluene	2.9		1.6	0.82	ug/Kg	1		8260B	Total/NA
1,2,3-Trichlorobenzene	0.97	J	4.1	0.82	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	3.6	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV10-15 — Lab Sample ID: 440-207103-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	1.6	0.82	ug/Kg	1		8260B	Total/NA
Toluene	1.2	J	1.6	0.82	ug/Kg	1		8260B	Total/NA

Client Sample ID: AOC4-SV9-5 — Lab Sample ID: 440-207103-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2		1.7	0.87	ug/Kg	1		8260B	Total/NA
Toluene	2.5		1.7	0.87	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	3.2	J B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV9-15 — Lab Sample ID: 440-207103-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0	J	1.7	0.83	ug/Kg	1		8260B	Total/NA
Toluene	1.2	J	1.7	0.83	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	2.8	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV9-15d — Lab Sample ID: 440-207103-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.97	J	1.8	0.91	ug/Kg	1		8260B	Total/NA

Client Sample ID: AOC4-SV8-5 — Lab Sample ID: 440-207103-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.6		1.6	0.80	ug/Kg	1		8260B	Total/NA
Ethylbenzene	2.0		1.6	0.80	ug/Kg	1		8260B	Total/NA
Toluene	3.0		1.6	0.80	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	21	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV8-15 — Lab Sample ID: 440-207103-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7		1.7	0.85	ug/Kg	1		8260B	Total/NA
2-Butanone (MEK)	5.9	J	8.5	4.3	ug/Kg	1		8260B	Total/NA
Ethylbenzene	1.1	J	1.7	0.85	ug/Kg	1		8260B	Total/NA
Toluene	2.3		1.7	0.85	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	5.4	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV6-5 — Lab Sample ID: 440-207103-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.2		1.9	0.94	ug/Kg	1		8260B	Total/NA
Ethylbenzene	1.3	J *	1.9	0.94	ug/Kg	1		8260B	Total/NA
Toluene	3.9	*	1.9	0.94	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	3.3	J B	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV6-15 — Lab Sample ID: 440-207103-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7	J	2.1	1.0	ug/Kg	1		8260B	Total/NA
Toluene	1.5	J	2.1	1.0	ug/Kg	1		8260B	Total/NA
ORO (C23-C40)	5.1	B	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: F032618B — Lab Sample ID: 440-207103-10

No Detections.

Client Sample ID: TB — Lab Sample ID: 440-207103-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: AOC4-SV10-5
Date Collected: 03/26/18 08:15
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.3**		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Bromobenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Bromochloromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Bromodichloromethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Bromoform	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
2-Butanone (MEK)	**6.1**	**J**	8.2	4.1	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Carbon tetrachloride	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Chlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Chloroethane	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Chloroform	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Chloromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
2-Chlorotoluene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
4-Chlorotoluene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
cis-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
cis-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Dibromochloromethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2-Dibromo-3-Chloropropane	ND	*	4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2-Dibromoethane (EDB)	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Dibromomethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,3-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,4-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Dichlorodifluoromethane	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1-Dichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2-Dichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1-Dichloroethene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,3-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Ethylbenzene	**1.5**	**J**	1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Hexachlorobutadiene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Isopropylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Methylene Chloride	ND		16	4.1	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
m,p-Xylene	ND		3.3	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Naphthalene	**1.7**	**J**	4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
n-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
N-Propylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
o-Xylene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
p-Isopropyltoluene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
sec-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Styrene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
tert-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Tetrachloroethene	**1.2**	**J**	1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Toluene	**2.9**		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
trans-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1

Client Sample ID: AOC4-SV10-5
Date Collected: 03/26/18 08:15
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2,3-Trichlorobenzene	**0.97**	**J**	4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,1,2-Trichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Trichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Trichlorofluoromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1
Vinyl chloride	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*74 - 124*	*03/29/18 09:20*	*03/29/18 10:22*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 135*	*03/29/18 09:20*	*03/29/18 10:22*	*1*
Toluene-d8 (Surr)	*113*		*80 - 122*	*03/29/18 09:20*	*03/29/18 10:22*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/30/18 21:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*65 - 140*		*03/30/18 21:01*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 14:32	1
ORO (C23-C40)	**3.6**	**J B**	4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 14:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*73*		*40 - 140*	*03/27/18 16:59*	*03/28/18 14:32*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*45 - 120*	*03/27/18 17:04*	*03/28/18 12:05*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV10-15
Date Collected: 03/26/18 08:50
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.3**	**J**	1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Bromobenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Bromochloromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Bromodichloromethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Bromoform	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Carbon tetrachloride	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Chlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Chloroethane	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Chloroform	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Chloromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
2-Chlorotoluene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
4-Chlorotoluene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
cis-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
cis-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Dibromochloromethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2-Dibromo-3-Chloropropane	ND	*	4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2-Dibromoethane (EDB)	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Dibromomethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,3-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,4-Dichlorobenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Dichlorodifluoromethane	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1-Dichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2-Dichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1-Dichloroethene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,3-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Ethylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Hexachlorobutadiene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Isopropylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Methylene Chloride	ND		16	4.1	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
m,p-Xylene	ND		3.3	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Naphthalene	ND		4.1	1.6	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
n-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
N-Propylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
o-Xylene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
p-Isopropyltoluene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
sec-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Styrene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
tert-Butylbenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Tetrachloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Toluene	**1.2**	**J**	1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
trans-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV10-15
Date Collected: 03/26/18 08:50
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2,3-Trichlorobenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,1,2-Trichloroethane	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Trichloroethene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Trichlorofluoromethane	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1
Vinyl chloride	ND		4.1	0.82	ug/Kg		03/29/18 09:20	03/29/18 10:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*74 - 124*	*03/29/18 09:20*	*03/29/18 10:50*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 135*	*03/29/18 09:20*	*03/29/18 10:50*	*1*
Toluene-d8 (Surr)	*107*		*80 - 122*	*03/29/18 09:20*	*03/29/18 10:50*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/30/18 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*65 - 140*		*03/30/18 22:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 12:11	1
ORO (C23-C40)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 12:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*53*		*40 - 140*	*03/27/18 16:59*	*03/28/18 12:11*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*45 - 120*	*03/27/18 17:04*	*03/28/18 12:18*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV9-5
Date Collected: 03/26/18 09:10
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.2**		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Bromobenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Bromochloromethane	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Bromodichloromethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Bromoform	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
2-Butanone (MEK)	ND		8.7	4.3	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Carbon tetrachloride	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Chlorobenzene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Chloroethane	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Chloroform	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Chloromethane	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
2-Chlorotoluene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
4-Chlorotoluene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
cis-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
cis-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Dibromochloromethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2-Dibromo-3-Chloropropane	ND	*	4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2-Dibromoethane (EDB)	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Dibromomethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2-Dichlorobenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,3-Dichlorobenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,4-Dichlorobenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Dichlorodifluoromethane	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1-Dichloroethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2-Dichloroethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1-Dichloroethene	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2-Dichloropropane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,3-Dichloropropane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1-Dichloropropene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Ethylbenzene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Hexachlorobutadiene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Isopropylbenzene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Methylene Chloride	ND		17	4.3	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Methyl-t-Butyl Ether (MTBE)	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
m,p-Xylene	ND		3.5	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Naphthalene	ND	*	4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
n-Butylbenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
N-Propylbenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
o-Xylene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
p-Isopropyltoluene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
sec-Butylbenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Styrene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
tert-Butylbenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1,1,2-Tetrachloroethane	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1,2,2-Tetrachloroethane	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Tetrachloroethene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Toluene	**2.5**		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
trans-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV9-5
Date Collected: 03/26/18 09:10
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2,3-Trichlorobenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2,4-Trichlorobenzene	ND	*	4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1,1-Trichloroethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,1,2-Trichloroethane	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Trichloroethene	ND		1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Trichlorofluoromethane	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2,3-Trichloropropane	ND	*	8.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,2,4-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
1,3,5-Trimethylbenzene	ND	*	1.7	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1
Vinyl chloride	ND		4.3	0.87	ug/Kg		03/29/18 09:20	03/29/18 14:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*	*	*74 - 124*	*03/29/18 09:20*	*03/29/18 14:33*	*1*
Dibromofluoromethane (Surr)	*115*		*80 - 135*	*03/29/18 09:20*	*03/29/18 14:33*	*1*
Toluene-d8 (Surr)	*117*		*80 - 122*	*03/29/18 09:20*	*03/29/18 14:33*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/30/18 22:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*66*		*65 - 140*		*03/30/18 22:49*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 15:33	1
ORO (C23-C40)	**3.2**	**J B**	5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 15:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*50*		*40 - 140*	*03/27/18 16:59*	*03/28/18 15:33*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:32	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*85*		*45 - 120*	*03/27/18 17:04*	*03/28/18 12:32*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV9-15
Date Collected: 03/26/18 09:45
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.0**	**J**	1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Bromobenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Bromochloromethane	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Bromodichloromethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Bromoform	ND		4.2	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
2-Butanone (MEK)	ND		8.3	4.2	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Carbon tetrachloride	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Chlorobenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Chloroethane	ND		4.2	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Chloroform	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Chloromethane	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
2-Chlorotoluene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
4-Chlorotoluene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
cis-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
cis-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Dibromochloromethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND	*	4.2	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2-Dibromoethane (EDB)	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Dibromomethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2-Dichlorobenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,3-Dichlorobenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,4-Dichlorobenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Dichlorodifluoromethane	ND		4.2	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1-Dichloroethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2-Dichloroethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1-Dichloroethene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2-Dichloropropane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,3-Dichloropropane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1-Dichloropropene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Ethylbenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Hexachlorobutadiene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Isopropylbenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Methylene Chloride	ND		17	4.2	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Methyl-t-Butyl Ether (MTBE)	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
m,p-Xylene	ND		3.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Naphthalene	ND		4.2	1.7	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
n-Butylbenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
N-Propylbenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
o-Xylene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
p-Isopropyltoluene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
sec-Butylbenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Styrene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
tert-Butylbenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1,1,2-Tetrachloroethane	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Tetrachloroethene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Toluene	**1.2**	**J**	1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
trans-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1

Client Sample ID: AOC4-SV9-15
Date Collected: 03/26/18 09:45
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2,3-Trichlorobenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2,4-Trichlorobenzene	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1,1-Trichloroethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,1,2-Trichloroethane	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Trichloroethene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Trichlorofluoromethane	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1
Vinyl chloride	ND		4.2	0.83	ug/Kg		03/29/18 09:20	03/29/18 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*74 - 124*	*03/29/18 09:20*	*03/29/18 11:46*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 135*	*03/29/18 09:20*	*03/29/18 11:46*	*1*
Toluene-d8 (Surr)	*108*		*80 - 122*	*03/29/18 09:20*	*03/29/18 11:46*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/30/18 23:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*65 - 140*		*03/30/18 23:16*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 12:31	1
ORO (C23-C40)	**2.8**	**J B**	4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*75*		*40 - 140*	*03/27/18 16:59*	*03/28/18 12:31*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1221	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1232	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1242	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1248	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1254	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1
Aroclor 1260	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 12:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*03/27/18 17:04*	*03/28/18 12:45*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV9-15d
Date Collected: 03/26/18 09:46
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**0.97**	**J**	1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Bromobenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Bromochloromethane	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Bromodichloromethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Bromoform	ND		4.5	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
2-Butanone (MEK)	ND		9.1	4.5	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Carbon tetrachloride	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Chlorobenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Chloroethane	ND		4.5	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Chloroform	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Chloromethane	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
2-Chlorotoluene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
4-Chlorotoluene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
cis-1,2-Dichloroethene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
cis-1,3-Dichloropropene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Dibromochloromethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2-Dibromo-3-Chloropropane	ND	*	4.5	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2-Dibromoethane (EDB)	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Dibromomethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2-Dichlorobenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,3-Dichlorobenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,4-Dichlorobenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Dichlorodifluoromethane	ND		4.5	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1-Dichloroethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2-Dichloroethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1-Dichloroethene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2-Dichloropropane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,3-Dichloropropane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
2,2-Dichloropropane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1-Dichloropropene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Ethylbenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Hexachlorobutadiene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Isopropylbenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Methylene Chloride	ND		18	4.5	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Methyl-t-Butyl Ether (MTBE)	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
m,p-Xylene	ND		3.6	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Naphthalene	ND		4.5	1.8	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
n-Butylbenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
N-Propylbenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
o-Xylene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
p-Isopropyltoluene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
sec-Butylbenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Styrene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
tert-Butylbenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1,1,2-Tetrachloroethane	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Tetrachloroethene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Toluene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
trans-1,2-Dichloroethene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1

Client Sample ID: AOC4-SV9-15d
Date Collected: 03/26/18 09:46
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2,3-Trichlorobenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2,4-Trichlorobenzene	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1,1-Trichloroethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,1,2-Trichloroethane	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Trichloroethene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Trichlorofluoromethane	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2,3-Trichloropropane	ND		9.1	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,2,4-Trimethylbenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
1,3,5-Trimethylbenzene	ND		1.8	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1
Vinyl chloride	ND		4.5	0.91	ug/Kg		03/29/18 09:20	03/29/18 15:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*74 - 124*	*03/29/18 09:20*	*03/29/18 15:00*	*1*
Dibromofluoromethane (Surr)	*113*		*80 - 135*	*03/29/18 09:20*	*03/29/18 15:00*	*1*
Toluene-d8 (Surr)	*108*		*80 - 122*	*03/29/18 09:20*	*03/29/18 15:00*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg			03/30/18 23:44	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*79*		*65 - 140*		*03/30/18 23:44*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		03/27/18 16:59	03/28/18 12:51	1
ORO (C23-C40)	ND		4.9	2.4	mg/Kg		03/27/18 16:59	03/28/18 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*62*		*40 - 140*	*03/27/18 16:59*	*03/28/18 12:51*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 12:59	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*78*		*45 - 120*	*03/27/18 17:04*	*03/28/18 12:59*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV8-5
Date Collected: 03/26/18 10:40
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.6**		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Bromobenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Bromochloromethane	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Bromodichloromethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Bromoform	ND		4.0	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
2-Butanone (MEK)	ND		8.0	4.0	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Carbon tetrachloride	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Chlorobenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Chloroethane	ND		4.0	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Chloroform	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Chloromethane	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
2-Chlorotoluene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
4-Chlorotoluene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
cis-1,2-Dichloroethene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
cis-1,3-Dichloropropene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Dibromochloromethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2-Dibromo-3-Chloropropane	ND	*	4.0	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2-Dibromoethane (EDB)	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Dibromomethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2-Dichlorobenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,3-Dichlorobenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,4-Dichlorobenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Dichlorodifluoromethane	ND		4.0	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1-Dichloroethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2-Dichloroethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1-Dichloroethene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2-Dichloropropane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,3-Dichloropropane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
2,2-Dichloropropane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1-Dichloropropene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Ethylbenzene	**2.0**		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Hexachlorobutadiene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Isopropylbenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Methylene Chloride	ND		16	4.0	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Methyl-t-Butyl Ether (MTBE)	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
m,p-Xylene	ND		3.2	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Naphthalene	ND		4.0	1.6	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
n-Butylbenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
N-Propylbenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
o-Xylene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
p-Isopropyltoluene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
sec-Butylbenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Styrene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
tert-Butylbenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1,1,2-Tetrachloroethane	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Tetrachloroethene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Toluene	**3.0**		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
trans-1,2-Dichloroethene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1

Client Sample ID: AOC4-SV8-5
Date Collected: 03/26/18 10:40
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2,3-Trichlorobenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2,4-Trichlorobenzene	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1,1-Trichloroethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,1,2-Trichloroethane	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Trichloroethene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Trichlorofluoromethane	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2,3-Trichloropropane	ND		8.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,2,4-Trimethylbenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
1,3,5-Trimethylbenzene	ND		1.6	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1
Vinyl chloride	ND		4.0	0.80	ug/Kg		03/29/18 09:20	03/29/18 12:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*74 - 124*	*03/29/18 09:20*	*03/29/18 12:42*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 135*	*03/29/18 09:20*	*03/29/18 12:42*	*1*
Toluene-d8 (Surr)	*106*		*80 - 122*	*03/29/18 09:20*	*03/29/18 12:42*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/31/18 00:11	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*76*		*65 - 140*		*03/31/18 00:11*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 16:13	1
ORO (C23-C40)	**21**	**B**	4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 16:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*40 - 140*	*03/27/18 16:59*	*03/28/18 16:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1221	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1232	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1242	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1248	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1254	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1
Aroclor 1260	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*03/27/18 17:04*	*03/28/18 13:12*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV8-15
Date Collected: 03/26/18 11:00
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Bromobenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Bromochloromethane	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Bromodichloromethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Bromoform	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
2-Butanone (MEK)	**5.9**	**J**	8.5	4.3	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Carbon tetrachloride	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Chlorobenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Chloroethane	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Chloroform	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Chloromethane	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
2-Chlorotoluene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
4-Chlorotoluene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
cis-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
cis-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Dibromochloromethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2-Dibromo-3-Chloropropane	ND	*	4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2-Dibromoethane (EDB)	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Dibromomethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2-Dichlorobenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,3-Dichlorobenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,4-Dichlorobenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Dichlorodifluoromethane	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1-Dichloroethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2-Dichloroethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1-Dichloroethene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2-Dichloropropane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,3-Dichloropropane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
2,2-Dichloropropane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1-Dichloropropene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Ethylbenzene	**1.1**	**J**	1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Hexachlorobutadiene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Isopropylbenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Methylene Chloride	ND		17	4.3	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Methyl-t-Butyl Ether (MTBE)	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
m,p-Xylene	ND		3.4	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Naphthalene	ND		4.3	1.7	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
n-Butylbenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
N-Propylbenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
o-Xylene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
p-Isopropyltoluene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
sec-Butylbenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Styrene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
tert-Butylbenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1,1,2-Tetrachloroethane	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Tetrachloroethene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Toluene	**2.3**		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
trans-1,2-Dichloroethene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1

Client Sample ID: AOC4-SV8-15
Date Collected: 03/26/18 11:00
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-7
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2,3-Trichlorobenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2,4-Trichlorobenzene	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1,1-Trichloroethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,1,2-Trichloroethane	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Trichloroethene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Trichlorofluoromethane	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2,3-Trichloropropane	ND		8.5	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,2,4-Trimethylbenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
1,3,5-Trimethylbenzene	ND		1.7	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1
Vinyl chloride	ND		4.3	0.85	ug/Kg		03/29/18 09:20	03/29/18 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*	*03/29/18 09:20*	*03/29/18 15:28*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 135*	*03/29/18 09:20*	*03/29/18 15:28*	*1*
Toluene-d8 (Surr)	*112*		*80 - 122*	*03/29/18 09:20*	*03/29/18 15:28*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/31/18 00:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*		*65 - 140*		*03/31/18 00:38*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 15:53	1
ORO (C23-C40)	**5.4**	**B**	4.9	2.5	mg/Kg		03/27/18 16:59	03/28/18 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*70*		*40 - 140*	*03/27/18 16:59*	*03/28/18 15:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*	*03/27/18 17:04*	*03/28/18 13:25*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV6-5
Date Collected: 03/26/18 11:35
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**3.2**		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Bromobenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Bromochloromethane	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Bromodichloromethane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Bromoform	ND	*	4.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Carbon tetrachloride	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Chlorobenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Chloroethane	ND		4.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Chloroform	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Chloromethane	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
2-Chlorotoluene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
4-Chlorotoluene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
cis-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
cis-1,3-Dichloropropene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Dibromochloromethane	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2-Dibromo-3-Chloropropane	ND	*	4.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2-Dibromoethane (EDB)	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Dibromomethane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2-Dichlorobenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,3-Dichlorobenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,4-Dichlorobenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Dichlorodifluoromethane	ND		4.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1-Dichloroethane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2-Dichloroethane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1-Dichloroethene	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2-Dichloropropane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,3-Dichloropropane	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1-Dichloropropene	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Ethylbenzene	**1.3**	**J ***	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Hexachlorobutadiene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Isopropylbenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Methylene Chloride	ND		19	4.7	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
m,p-Xylene	ND	*	3.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Naphthalene	ND	*	4.7	1.9	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
n-Butylbenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
N-Propylbenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
o-Xylene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
p-Isopropyltoluene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
sec-Butylbenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Styrene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
tert-Butylbenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1,1,2-Tetrachloroethane	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1,2,2-Tetrachloroethane	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Tetrachloroethene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Toluene	**3.9**	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
trans-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1

Client Sample ID: AOC4-SV6-5
Date Collected: 03/26/18 11:35
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2,3-Trichlorobenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2,4-Trichlorobenzene	ND	*	4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1,1-Trichloroethane	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,1,2-Trichloroethane	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Trichloroethene	ND		1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Trichlorofluoromethane	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2,3-Trichloropropane	ND	*	9.4	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,2,4-Trimethylbenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
1,3,5-Trimethylbenzene	ND	*	1.9	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1
Vinyl chloride	ND		4.7	0.94	ug/Kg		03/29/18 09:20	03/29/18 15:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*	*	*74 - 124*	*03/29/18 09:20*	*03/29/18 15:56*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 135*	*03/29/18 09:20*	*03/29/18 15:56*	*1*
Toluene-d8 (Surr)	*124*	*X	*80 - 122*	*03/29/18 09:20*	*03/29/18 15:56*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND	F1	400	150	ug/Kg			03/31/18 17:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*80*		*65 - 140*		*03/31/18 17:39*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		03/27/18 16:59	03/28/18 15:13	1
ORO (C23-C40)	**3.3**	**J B**	4.9	2.4	mg/Kg		03/27/18 16:59	03/28/18 15:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*03/27/18 16:59*	*03/28/18 15:13*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*80*		*45 - 120*	*03/27/18 17:04*	*03/28/18 13:39*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV6-15
Date Collected: 03/26/18 11:50
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**1.7**	**J**	2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Bromobenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Bromochloromethane	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Bromodichloromethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Bromoform	ND		5.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
2-Butanone (MEK)	ND		10	5.2	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Carbon tetrachloride	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Chlorobenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Chloroethane	ND		5.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Chloroform	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Chloromethane	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
2-Chlorotoluene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
4-Chlorotoluene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
cis-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
cis-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Dibromochloromethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2-Dibromo-3-Chloropropane	ND	*	5.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2-Dibromoethane (EDB)	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Dibromomethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2-Dichlorobenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,3-Dichlorobenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,4-Dichlorobenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Dichlorodifluoromethane	ND		5.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1-Dichloroethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2-Dichloroethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1-Dichloroethene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2-Dichloropropane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,3-Dichloropropane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1-Dichloropropene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Ethylbenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Hexachlorobutadiene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Isopropylbenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Methylene Chloride	ND		21	5.2	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Methyl-t-Butyl Ether (MTBE)	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
m,p-Xylene	ND		4.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Naphthalene	ND		5.2	2.1	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
n-Butylbenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
N-Propylbenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
o-Xylene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
p-Isopropyltoluene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
sec-Butylbenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Styrene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
tert-Butylbenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1,1,2-Tetrachloroethane	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Tetrachloroethene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Toluene	**1.5**	**J**	2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
trans-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1

Client Sample ID: AOC4-SV6-15
Date Collected: 03/26/18 11:50
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2,3-Trichlorobenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2,4-Trichlorobenzene	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1,1-Trichloroethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,1,2-Trichloroethane	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Trichloroethene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Trichlorofluoromethane	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1
Vinyl chloride	ND		5.2	1.0	ug/Kg		03/29/18 09:20	03/29/18 16:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*	*03/29/18 09:20*	*03/29/18 16:24*	*1*
Dibromofluoromethane (Surr)	*112*		*80 - 135*	*03/29/18 09:20*	*03/29/18 16:24*	*1*
Toluene-d8 (Surr)	*105*		*80 - 122*	*03/29/18 09:20*	*03/29/18 16:24*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/31/18 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*65 - 140*		*03/31/18 02:26*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 11:31	1
ORO (C23-C40)	**5.1**	**B**	5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 11:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*03/27/18 16:59*	*03/28/18 11:31*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1221	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1232	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1242	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1248	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1254	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1
Aroclor 1260	ND		49	17	ug/Kg		03/27/18 17:04	03/28/18 13:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*50*		*45 - 120*	*03/27/18 17:04*	*03/28/18 13:52*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: F032618B
Date Collected: 03/26/18 12:00
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Bromobenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Bromochloromethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Bromodichloromethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Bromoform	ND		1.0	0.40	ug/L			03/28/18 23:40	1
Bromomethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			03/28/18 23:40	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Chlorobenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Chloroethane	ND		1.0	0.40	ug/L			03/28/18 23:40	1
Chloroform	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Chloromethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Dibromochloromethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			03/28/18 23:40	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Dibromomethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			03/28/18 23:40	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/28/18 23:40	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Ethylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Isopropylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Methylene Chloride	ND		2.0	0.88	ug/L			03/28/18 23:40	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			03/28/18 23:40	1
m,p-Xylene	ND		1.0	0.50	ug/L			03/28/18 23:40	1
Naphthalene	ND		1.0	0.40	ug/L			03/28/18 23:40	1
n-Butylbenzene	ND		1.0	0.40	ug/L			03/28/18 23:40	1
N-Propylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
o-Xylene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Styrene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Tetrachloroethene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Toluene	ND		0.50	0.25	ug/L			03/28/18 23:40	1

Client Sample ID: F032618B
Date Collected: 03/26/18 12:00
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-10
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			03/28/18 23:40	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			03/28/18 23:40	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Trichloroethene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			03/28/18 23:40	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			03/28/18 23:40	1
Vinyl chloride	ND		0.50	0.25	ug/L			03/28/18 23:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*03/28/18 23:40*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*03/28/18 23:40*	*1*
Toluene-d8 (Surr)	*103*		*80 - 128*		*03/28/18 23:40*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			03/31/18 16:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*		*03/31/18 16:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.52	0.26	mg/L		03/27/18 11:02	03/28/18 00:01	1
ORO (C23-C40)	ND		0.52	0.26	mg/L		03/27/18 11:02	03/28/18 00:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*45 - 120*	*03/27/18 11:02*	*03/28/18 00:01*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1221	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1232	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1242	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1248	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1254	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1
Aroclor 1260	ND		1.1	0.54	ug/L		03/27/18 13:38	03/28/18 13:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*61*		*26 - 115*	*03/27/18 13:38*	*03/28/18 13:41*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: TB
Date Collected: 03/26/18 00:01
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Bromobenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Bromochloromethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Bromodichloromethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Bromoform	ND		1.0	0.40	ug/L			03/29/18 00:07	1
Bromomethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			03/29/18 00:07	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Chlorobenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Chloroethane	ND		1.0	0.40	ug/L			03/29/18 00:07	1
Chloroform	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Chloromethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Dibromochloromethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			03/29/18 00:07	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Dibromomethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			03/29/18 00:07	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/29/18 00:07	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Ethylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Isopropylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Methylene Chloride	ND		2.0	0.88	ug/L			03/29/18 00:07	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			03/29/18 00:07	1
m,p-Xylene	ND		1.0	0.50	ug/L			03/29/18 00:07	1
Naphthalene	ND		1.0	0.40	ug/L			03/29/18 00:07	1
n-Butylbenzene	ND		1.0	0.40	ug/L			03/29/18 00:07	1
N-Propylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
o-Xylene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Styrene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Tetrachloroethene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Toluene	ND		0.50	0.25	ug/L			03/29/18 00:07	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: TB
Date Collected: 03/26/18 00:01
Date Received: 03/26/18 18:40

Lab Sample ID: 440-207103-11
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			03/29/18 00:07	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			03/29/18 00:07	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Trichloroethene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			03/29/18 00:07	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			03/29/18 00:07	1
Vinyl chloride	ND		0.50	0.25	ug/L			03/29/18 00:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*80 - 120*		*03/29/18 00:07*	*1*
Dibromofluoromethane (Surr)	*102*		*76 - 132*		*03/29/18 00:07*	*1*
Toluene-d8 (Surr)	*101*		*80 - 128*		*03/29/18 00:07*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-124)	(80-135)	(80-122)
440-207103-1	AOC4-SV10-5	114	109	113
440-207103-2	AOC4-SV10-15	104	109	107
440-207103-3	AOC4-SV9-5	118 *	115	117
440-207103-4	AOC4-SV9-15	108	111	108
440-207103-5	AOC4-SV9-15d	108	113	108
440-207103-6	AOC4-SV8-5	110	110	106
440-207103-7	AOC4-SV8-15	107	109	112
440-207103-8	AOC4-SV6-5	118 *	111	124 * X
440-207103-9	AOC4-SV6-15	97	112	105
LCS 440-466784/6	Lab Control Sample	101	107	102
LCSD 440-466784/7	Lab Control Sample Dup	105	107	99
MB 440-466784/4	Method Blank	101	107	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)
440-207096-B-2 MS	Matrix Spike	91	99	101
440-207096-B-2 MSD	Matrix Spike Duplicate	91	101	97
440-207103-10	F032618B	94	98	103
440-207103-11	TB	93	102	101
LCS 440-466712/5	Lab Control Sample	90	99	97
MB 440-466712/4	Method Blank	92	99	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-207103-1	AOC4-SV10-5	84
440-207103-1 MS	AOC4-SV10-5	92
440-207103-1 MSD	AOC4-SV10-5	84
440-207103-2	AOC4-SV10-15	84
440-207103-3	AOC4-SV9-5	66
440-207103-4	AOC4-SV9-15	80
440-207103-5	AOC4-SV9-15d	79
440-207103-6	AOC4-SV8-5	76

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-207103-7	AOC4-SV8-15	67
440-207103-8	AOC4-SV6-5	80
440-207103-8 MS	AOC4-SV6-5	91
440-207103-8 MSD	AOC4-SV6-5	85
440-207103-9	AOC4-SV6-15	73
LCS 440-467099/51	Lab Control Sample	107
LCS 440-467331/3	Lab Control Sample	118
LCSD 440-467099/52	Lab Control Sample Dup	101
LCSD 440-467331/4	Lab Control Sample Dup	109
MB 440-467099/25	Method Blank	72
MB 440-467331/5	Method Blank	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-207103-10	F032618B	85
440-207427-C-1 MS	Matrix Spike	109
440-207427-C-1 MSD	Matrix Spike Duplicate	105
LCS 440-467176/4	Lab Control Sample	100
MB 440-467176/5	Method Blank	96

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-207103-1	AOC4-SV10-5	73
440-207103-1 MS	AOC4-SV10-5	56
440-207103-1 MSD	AOC4-SV10-5	54
440-207103-2	AOC4-SV10-15	53
440-207103-3	AOC4-SV9-5	50
440-207103-4	AOC4-SV9-15	75
440-207103-5	AOC4-SV9-15d	62
440-207103-6	AOC4-SV8-5	77
440-207103-7	AOC4-SV8-15	70
440-207103-8	AOC4-SV6-5	64
440-207103-9	AOC4-SV6-15	64
LCS 440-466419/2-A	Lab Control Sample	81
MB 440-466419/1-A	Method Blank	80

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
440-207103-10	F032618B	69
LCS 440-466303/2-A	Lab Control Sample	55
LCSD 440-466303/3-A	Lab Control Sample Dup	60
MB 440-466303/1-A	Method Blank	60

Surrogate Legend

OTCN = n-Octacosane

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-207103-1	AOC4-SV10-5	74
440-207103-1 MS	AOC4-SV10-5	69
440-207103-1 MSD	AOC4-SV10-5	76
440-207103-2	AOC4-SV10-15	73
440-207103-3	AOC4-SV9-5	85
440-207103-4	AOC4-SV9-15	91
440-207103-5	AOC4-SV9-15d	78
440-207103-6	AOC4-SV8-5	65
440-207103-7	AOC4-SV8-15	83
440-207103-8	AOC4-SV6-5	80
440-207103-9	AOC4-SV6-15	50
LCS 440-466422/2-A	Lab Control Sample	92
MB 440-466422/1-A	Method Blank	104

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(26-115)
440-207103-10	F032618B	61
LCS 440-466355/2-A	Lab Control Sample	65
LCSD 440-466355/3-A	Lab Control Sample Dup	67
MB 440-466355/1-A	Method Blank	73

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC4-SV10-5

Lab Sample ID: 440-207103-1

Date Collected: 03/26/18 08:15

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.101 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 10:22	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.06 g	10 mL	467099	03/30/18 21:01	KGL	TAL IRV
Total/NA	Prep	3546			15.29 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 14:32	LMB	TAL IRV
Total/NA	Prep	3546			15.19 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 12:05	JM	TAL IRV

Client Sample ID: AOC4-SV10-15

Lab Sample ID: 440-207103-2

Date Collected: 03/26/18 08:50

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.071 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 10:50	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5 g	10 mL	467099	03/30/18 22:22	KGL	TAL IRV
Total/NA	Prep	3546			15.17 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 12:11	LMB	TAL IRV
Total/NA	Prep	3546			15.18 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 12:18	JM	TAL IRV

Client Sample ID: AOC4-SV9-5

Lab Sample ID: 440-207103-3

Date Collected: 03/26/18 09:10

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.749 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 14:33	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5 g	10 mL	467099	03/30/18 22:49	KGL	TAL IRV
Total/NA	Prep	3546			15.11 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 15:33	LMB	TAL IRV
Total/NA	Prep	3546			15.16 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 12:32	JM	TAL IRV

Client Sample ID: AOC4-SV9-15

Lab Sample ID: 440-207103-4

Date Collected: 03/26/18 09:45

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.004 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 11:46	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	467099	03/30/18 23:16	KGL	TAL IRV

Client Sample ID: AOC4-SV9-15

Lab Sample ID: 440-207103-4

Date Collected: 03/26/18 09:45

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.20 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 12:31	LMB	TAL IRV
Total/NA	Prep	3546			15.08 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 12:45	JM	TAL IRV

Client Sample ID: AOC4-SV9-15d

Lab Sample ID: 440-207103-5

Date Collected: 03/26/18 09:46

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.516 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 15:00	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.07 g	10 mL	467099	03/30/18 23:44	KGL	TAL IRV
Total/NA	Prep	3546			15.39 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 12:51	LMB	TAL IRV
Total/NA	Prep	3546			15.40 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 12:59	JM	TAL IRV

Client Sample ID: AOC4-SV8-5

Lab Sample ID: 440-207103-6

Date Collected: 03/26/18 10:40

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.26 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 12:42	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	467099	03/31/18 00:11	KGL	TAL IRV
Total/NA	Prep	3546			15.18 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 16:13	LMB	TAL IRV
Total/NA	Prep	3546			15.04 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 13:12	JM	TAL IRV

Client Sample ID: AOC4-SV8-15

Lab Sample ID: 440-207103-7

Date Collected: 03/26/18 11:00

Matrix: Solid

Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.868 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 15:28	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	467099	03/31/18 00:38	KGL	TAL IRV
Total/NA	Prep	3546			15.22 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 15:53	LMB	TAL IRV
Total/NA	Prep	3546			15.45 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 13:25	JM	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Client Sample ID: AOC4-SV6-5

Lab Sample ID: 440-207103-8

Date Collected: 03/26/18 11:35
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.342 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 15:56	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	467331	03/31/18 17:39	TCN	TAL IRV
Total/NA	Prep	3546			15.39 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466582	03/28/18 15:13	LMB	TAL IRV
Total/NA	Prep	3546			15.45 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 13:39	JM	TAL IRV

Client Sample ID: AOC4-SV6-15

Lab Sample ID: 440-207103-9

Date Collected: 03/26/18 11:50
Matrix: Solid
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.772 g	10 mL	466828	03/29/18 09:20	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	466784	03/29/18 16:24	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	467099	03/31/18 02:26	KGL	TAL IRV
Total/NA	Prep	3546			15.10 g	1 mL	466419	03/27/18 16:59	VA	TAL IRV
Total/NA	Analysis	8015B		1			466581	03/28/18 11:31	LMB	TAL IRV
Total/NA	Prep	3546			15.31 g	2 mL	466422	03/27/18 17:04	VA	TAL IRV
Total/NA	Analysis	8082		1			466277	03/28/18 13:52	JM	TAL IRV

Client Sample ID: F032618B

Lab Sample ID: 440-207103-10

Date Collected: 03/26/18 12:00
Matrix: Water
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	466712	03/28/18 23:40	AA	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	467176	03/31/18 16:22	TCN	TAL IRV
Total/NA	Prep	3510C			240 mL	1 mL	466303	03/27/18 11:02	SMF	TAL IRV
Total/NA	Analysis	8015B		1			466390	03/28/18 00:01	AMH	TAL IRV
Total/NA	Prep	3510C			230 mL	2 mL	466355	03/27/18 13:38	SMF	TAL IRV
Total/NA	Analysis	8082		1	1 mL	1.0 mL	466565	03/28/18 13:41	JM	TAL IRV

Client Sample ID: TB

Lab Sample ID: 440-207103-11

Date Collected: 03/26/18 00:01
Matrix: Water
Date Received: 03/26/18 18:40

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	466712	03/29/18 00:07	AA	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-466712/4
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Bromobenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Bromochloromethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Bromodichloromethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Bromoform	ND		1.0	0.40	ug/L			03/28/18 19:16	1
Bromomethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			03/28/18 19:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Chloroethane	ND		1.0	0.40	ug/L			03/28/18 19:16	1
Chloroform	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Chloromethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Dibromochloromethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			03/28/18 19:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Dibromomethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			03/28/18 19:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			03/28/18 19:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Isopropylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			03/28/18 19:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			03/28/18 19:16	1
m,p-Xylene	ND		1.0	0.50	ug/L			03/28/18 19:16	1
Naphthalene	ND		1.0	0.40	ug/L			03/28/18 19:16	1
n-Butylbenzene	ND		1.0	0.40	ug/L			03/28/18 19:16	1
N-Propylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
o-Xylene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Styrene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			03/28/18 19:16	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-466712/4
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Toluene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			03/28/18 19:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			03/28/18 19:16	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Trichloroethene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			03/28/18 19:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			03/28/18 19:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			03/28/18 19:16	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*80 - 120*		*03/28/18 19:16*	*1*
Dibromofluoromethane (Surr)	*99*		*76 - 132*		*03/28/18 19:16*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*03/28/18 19:16*	*1*

Lab Sample ID: LCS 440-466712/5
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	23.2		ug/L		93	68 - 130
Bromobenzene	25.0	23.6		ug/L		94	70 - 130
Bromochloromethane	25.0	24.2		ug/L		97	70 - 130
Bromodichloromethane	25.0	23.7		ug/L		95	70 - 132
Bromoform	25.0	23.6		ug/L		94	60 - 148
Bromomethane	25.0	21.0		ug/L		84	64 - 139
2-Butanone (MEK)	25.0	21.8		ug/L		87	44 - 150
Carbon tetrachloride	25.0	25.9		ug/L		104	60 - 150
Chlorobenzene	25.0	23.4		ug/L		93	70 - 130
Chloroethane	25.0	21.3		ug/L		85	64 - 135
Chloroform	25.0	23.4		ug/L		93	70 - 130
Chloromethane	25.0	19.9		ug/L		80	47 - 140
2-Chlorotoluene	25.0	24.1		ug/L		96	70 - 130
4-Chlorotoluene	25.0	23.9		ug/L		96	70 - 130
cis-1,2-Dichloroethene	25.0	22.6		ug/L		90	70 - 133
cis-1,3-Dichloropropene	25.0	23.4		ug/L		93	70 - 133
Dibromochloromethane	25.0	24.2		ug/L		97	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	21.7		ug/L		87	52 - 140
1,2-Dibromoethane (EDB)	25.0	22.0		ug/L		88	70 - 130
Dibromomethane	25.0	24.1		ug/L		96	70 - 130
1,2-Dichlorobenzene	25.0	25.3		ug/L		101	70 - 130
1,3-Dichlorobenzene	25.0	25.1		ug/L		100	70 - 130
1,4-Dichlorobenzene	25.0	24.9		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	18.7		ug/L		75	29 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-466712/5
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethane	25.0	23.1		ug/L		92	64 - 130
1,2-Dichloroethane	25.0	23.9		ug/L		95	57 - 138
1,1-Dichloroethene	25.0	21.5		ug/L		86	70 - 130
1,2-Dichloropropane	25.0	22.8		ug/L		91	67 - 130
1,3-Dichloropropane	25.0	21.6		ug/L		86	70 - 130
2,2-Dichloropropane	25.0	25.6		ug/L		103	68 - 141
1,1-Dichloropropene	25.0	24.2		ug/L		97	70 - 130
Ethylbenzene	25.0	24.6		ug/L		98	70 - 130
Hexachlorobutadiene	25.0	26.1		ug/L		105	10 - 150
Isopropylbenzene	25.0	24.8		ug/L		99	70 - 136
Methylene Chloride	25.0	20.4		ug/L		81	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	21.0		ug/L		84	63 - 131
m,p-Xylene	25.0	24.1		ug/L		96	70 - 130
Naphthalene	25.0	25.3		ug/L		101	60 - 140
n-Butylbenzene	25.0	25.4		ug/L		101	65 - 150
N-Propylbenzene	25.0	24.9		ug/L		100	67 - 139
o-Xylene	25.0	23.7		ug/L		95	70 - 130
p-Isopropyltoluene	25.0	23.7		ug/L		95	70 - 132
sec-Butylbenzene	25.0	24.8		ug/L		99	70 - 138
Styrene	25.0	23.8		ug/L		95	70 - 134
tert-Butylbenzene	25.0	24.2		ug/L		97	70 - 130
1,1,1,2-Tetrachloroethane	25.0	24.6		ug/L		98	60 - 141
1,1,2,2-Tetrachloroethane	25.0	21.7		ug/L		87	63 - 130
Tetrachloroethene	25.0	26.0		ug/L		104	70 - 130
Toluene	25.0	24.9		ug/L		100	70 - 130
trans-1,2-Dichloroethene	25.0	23.2		ug/L		93	70 - 130
trans-1,3-Dichloropropene	25.0	22.1		ug/L		88	70 - 132
1,2,3-Trichlorobenzene	25.0	25.9		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	25.0	26.2		ug/L		105	60 - 140
1,1,1-Trichloroethane	25.0	24.5		ug/L		98	70 - 130
1,1,2-Trichloroethane	25.0	23.5		ug/L		94	70 - 130
Trichloroethene	25.0	25.3		ug/L		101	70 - 130
Trichlorofluoromethane	25.0	25.1		ug/L		101	60 - 150
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	63 - 130
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 135
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		99	70 - 136
Vinyl chloride	25.0	20.4		ug/L		81	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*90*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-207096-B-2 MS
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	23.4		ug/L		93	66 - 130
Bromobenzene	ND		25.0	23.3		ug/L		93	70 - 130
Bromochloromethane	ND		25.0	24.3		ug/L		97	70 - 130
Bromodichloromethane	ND		25.0	24.2		ug/L		97	70 - 138
Bromoform	ND		25.0	24.5		ug/L		98	59 - 150
Bromomethane	ND		25.0	21.1		ug/L		85	62 - 131
2-Butanone (MEK)	ND		25.0	21.8		ug/L		87	48 - 140
Carbon tetrachloride	ND		25.0	25.7		ug/L		103	60 - 150
Chlorobenzene	ND		25.0	24.4		ug/L		98	70 - 130
Chloroethane	ND		25.0	21.1		ug/L		85	68 - 130
Chloroform	ND		25.0	23.6		ug/L		94	70 - 130
Chloromethane	ND		25.0	19.5		ug/L		78	39 - 144
2-Chlorotoluene	ND		25.0	24.2		ug/L		97	70 - 130
4-Chlorotoluene	ND		25.0	24.1		ug/L		96	70 - 130
cis-1,2-Dichloroethene	ND		25.0	22.6		ug/L		90	70 - 130
cis-1,3-Dichloropropene	ND		25.0	24.5		ug/L		98	70 - 133
Dibromochloromethane	ND		25.0	25.9		ug/L		104	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	22.6		ug/L		90	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	23.0		ug/L		92	70 - 131
Dibromomethane	ND		25.0	24.2		ug/L		97	70 - 130
1,2-Dichlorobenzene	ND		25.0	25.9		ug/L		104	70 - 130
1,3-Dichlorobenzene	ND		25.0	25.7		ug/L		103	70 - 130
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130
Dichlorodifluoromethane	ND		25.0	17.8		ug/L		71	25 - 142
1,1-Dichloroethane	ND		25.0	23.0		ug/L		92	65 - 130
1,2-Dichloroethane	ND		25.0	23.9		ug/L		96	56 - 146
1,1-Dichloroethene	ND		25.0	21.5		ug/L		86	70 - 130
1,2-Dichloropropane	ND		25.0	22.9		ug/L		92	69 - 130
1,3-Dichloropropane	ND		25.0	23.3		ug/L		93	70 - 130
2,2-Dichloropropane	ND		25.0	26.0		ug/L		104	69 - 138
1,1-Dichloropropene	ND		25.0	23.5		ug/L		94	64 - 130
Ethylbenzene	ND		25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	ND		25.0	26.9		ug/L		107	10 - 150
Isopropylbenzene	ND		25.0	25.8		ug/L		103	70 - 132
Methylene Chloride	ND		25.0	19.7		ug/L		79	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	20.9		ug/L		84	70 - 130
m,p-Xylene	ND		25.0	25.6		ug/L		102	70 - 133
Naphthalene	ND		25.0	25.7		ug/L		103	60 - 140
n-Butylbenzene	ND		25.0	26.0		ug/L		104	61 - 149
N-Propylbenzene	ND		25.0	25.1		ug/L		100	66 - 135
o-Xylene	ND		25.0	24.9		ug/L		100	70 - 133
p-Isopropyltoluene	ND		25.0	23.8		ug/L		95	70 - 130
sec-Butylbenzene	ND		25.0	24.7		ug/L		99	67 - 134
Styrene	ND		25.0	24.1		ug/L		96	29 - 150
tert-Butylbenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.3		ug/L		105	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	22.1		ug/L		88	63 - 130
Tetrachloroethene	0.77		25.0	27.6		ug/L		107	70 - 137

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-207096-B-2 MS
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Toluene	ND		25.0	26.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	ND		25.0	22.7		ug/L		91	70 - 130
trans-1,3-Dichloropropene	ND		25.0	23.5		ug/L		94	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	27.4		ug/L		109	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	27.4		ug/L		110	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloroethane	ND		25.0	25.2		ug/L		101	70 - 130
Trichloroethene	ND		25.0	25.1		ug/L		100	70 - 130
Trichlorofluoromethane	ND		25.0	24.5		ug/L		98	60 - 150
1,2,3-Trichloropropane	ND		25.0	21.9		ug/L		87	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	24.4		ug/L		98	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130
Vinyl chloride	ND		25.0	19.9		ug/L		80	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-207096-B-2 MSD
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	23.8		ug/L		95	66 - 130	2	20
Bromobenzene	ND		25.0	23.9		ug/L		96	70 - 130	3	20
Bromochloromethane	ND		25.0	24.7		ug/L		99	70 - 130	2	25
Bromodichloromethane	ND		25.0	24.3		ug/L		97	70 - 138	0	20
Bromoform	ND		25.0	23.2		ug/L		93	59 - 150	5	25
Bromomethane	ND		25.0	21.5		ug/L		86	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	21.4		ug/L		86	48 - 140	2	40
Carbon tetrachloride	ND		25.0	26.4		ug/L		106	60 - 150	3	25
Chlorobenzene	ND		25.0	23.6		ug/L		95	70 - 130	3	20
Chloroethane	ND		25.0	21.8		ug/L		87	68 - 130	3	25
Chloroform	ND		25.0	23.9		ug/L		95	70 - 130	1	20
Chloromethane	ND		25.0	20.7		ug/L		83	39 - 144	6	25
2-Chlorotoluene	ND		25.0	24.8		ug/L		99	70 - 130	3	20
4-Chlorotoluene	ND		25.0	24.6		ug/L		98	70 - 130	2	20
cis-1,2-Dichloroethene	ND		25.0	22.8		ug/L		91	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	23.2		ug/L		93	70 - 133	5	20
Dibromochloromethane	ND		25.0	24.5		ug/L		98	70 - 148	6	25
1,2-Dibromo-3-Chloropropane	ND		25.0	21.5		ug/L		86	48 - 140	5	30
1,2-Dibromoethane (EDB)	ND		25.0	21.7		ug/L		87	70 - 131	6	25
Dibromomethane	ND		25.0	23.6		ug/L		94	70 - 130	3	25
1,2-Dichlorobenzene	ND		25.0	26.0		ug/L		104	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	25.4		ug/L		102	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	25.6		ug/L		103	70 - 130	0	20
Dichlorodifluoromethane	ND		25.0	18.4		ug/L		74	25 - 142	3	30

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-207096-B-2 MSD
Matrix: Water
Analysis Batch: 466712

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1-Dichloroethane	ND		25.0	23.5		ug/L		94	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	24.0		ug/L		96	56 - 146	0	20
1,1-Dichloroethene	ND		25.0	22.1		ug/L		89	70 - 130	3	20
1,2-Dichloropropane	ND		25.0	23.4		ug/L		94	69 - 130	2	20
1,3-Dichloropropane	ND		25.0	21.5		ug/L		86	70 - 130	8	25
2,2-Dichloropropane	ND		25.0	26.2		ug/L		105	69 - 138	1	25
1,1-Dichloropropene	ND		25.0	24.6		ug/L		99	64 - 130	5	20
Ethylbenzene	ND		25.0	24.8		ug/L		99	70 - 130	3	20
Hexachlorobutadiene	ND		25.0	26.4		ug/L		106	10 - 150	2	20
Isopropylbenzene	ND		25.0	25.1		ug/L		100	70 - 132	3	20
Methylene Chloride	ND		25.0	19.3		ug/L		77	52 - 130	2	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	21.2		ug/L		85	70 - 130	1	25
m,p-Xylene	ND		25.0	25.0		ug/L		100	70 - 133	2	25
Naphthalene	ND		25.0	25.0		ug/L		100	60 - 140	3	30
n-Butylbenzene	ND		25.0	26.3		ug/L		105	61 - 149	1	20
N-Propylbenzene	ND		25.0	25.8		ug/L		103	66 - 135	3	20
o-Xylene	ND		25.0	23.9		ug/L		96	70 - 133	4	20
p-Isopropyltoluene	ND		25.0	24.4		ug/L		97	70 - 130	2	20
sec-Butylbenzene	ND		25.0	25.5		ug/L		102	67 - 134	3	20
Styrene	ND		25.0	23.2		ug/L		93	29 - 150	4	35
tert-Butylbenzene	ND		25.0	24.9		ug/L		100	70 - 130	2	20
1,1,1,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	60 - 149	5	20
1,1,2,2-Tetrachloroethane	ND		25.0	21.5		ug/L		86	63 - 130	3	30
Tetrachloroethene	0.77		25.0	26.9		ug/L		104	70 - 137	3	20
Toluene	ND		25.0	25.1		ug/L		100	70 - 130	4	20
trans-1,2-Dichloroethene	ND		25.0	23.3		ug/L		93	70 - 130	2	20
trans-1,3-Dichloropropene	ND		25.0	21.9		ug/L		88	70 - 138	7	25
1,2,3-Trichlorobenzene	ND		25.0	26.4		ug/L		106	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	26.6		ug/L		106	60 - 140	3	20
1,1,1-Trichloroethane	ND		25.0	24.6		ug/L		98	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	23.1		ug/L		92	70 - 130	9	25
Trichloroethene	ND		25.0	25.6		ug/L		102	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	25.7		ug/L		103	60 - 150	5	25
1,2,3-Trichloropropane	ND		25.0	21.6		ug/L		86	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	1	25
1,3,5-Trimethylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	0	20
Vinyl chloride	ND		25.0	21.0		ug/L		84	50 - 137	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*80 - 120*
Dibromofluoromethane (Surr)	*101*		*76 - 132*
Toluene-d8 (Surr)	*97*		*80 - 128*

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-466784/4
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Bromobenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Bromoform	ND		5.0	2.0	ug/Kg			03/29/18 08:31	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			03/29/18 08:31	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Chloroethane	ND		5.0	2.0	ug/Kg			03/29/18 08:31	1
Chloroform	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Chloromethane	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			03/29/18 08:31	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Dibromomethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			03/29/18 08:31	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Methylene Chloride	ND		20	5.0	ug/Kg			03/29/18 08:31	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			03/29/18 08:31	1
Naphthalene	ND		5.0	2.0	ug/Kg			03/29/18 08:31	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
o-Xylene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
Styrene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Toluene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-466784/4
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Trichloroethene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			03/29/18 08:31	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			03/29/18 08:31	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			03/29/18 08:31	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*		*03/29/18 08:31*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 135*		*03/29/18 08:31*	*1*
Toluene-d8 (Surr)	*104*		*80 - 122*		*03/29/18 08:31*	*1*

Lab Sample ID: LCS 440-466784/6
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.3		ug/Kg		99	65 - 120
Bromobenzene	50.0	54.2		ug/Kg		108	70 - 120
Bromochloromethane	50.0	56.4		ug/Kg		113	75 - 145
Bromodichloromethane	50.0	57.6		ug/Kg		115	75 - 135
Bromoform	50.0	63.6		ug/Kg		127	75 - 135
Bromomethane	50.0	42.6		ug/Kg		85	65 - 140
2-Butanone (MEK)	50.0	80.3		ug/Kg		161	25 - 170
Carbon tetrachloride	50.0	53.0		ug/Kg		106	65 - 130
Chlorobenzene	50.0	47.8		ug/Kg		96	70 - 120
Chloroethane	50.0	44.0		ug/Kg		88	60 - 135
Chloroform	50.0	50.0		ug/Kg		100	70 - 140
Chloromethane	50.0	33.8		ug/Kg		68	45 - 135
2-Chlorotoluene	50.0	51.7		ug/Kg		103	60 - 115
4-Chlorotoluene	50.0	52.6		ug/Kg		105	65 - 115
cis-1,2-Dichloroethene	50.0	52.0		ug/Kg		104	65 - 135
cis-1,3-Dichloropropene	50.0	55.7		ug/Kg		111	75 - 135
Dibromochloromethane	50.0	59.6		ug/Kg		119	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	89.8	*	ug/Kg		180	75 - 150
1,2-Dibromoethane (EDB)	50.0	64.0		ug/Kg		128	85 - 140
Dibromomethane	50.0	58.4		ug/Kg		117	80 - 145
1,2-Dichlorobenzene	50.0	55.0		ug/Kg		110	75 - 125
1,3-Dichlorobenzene	50.0	50.5		ug/Kg		101	70 - 115
1,4-Dichlorobenzene	50.0	48.8		ug/Kg		98	70 - 120
Dichlorodifluoromethane	50.0	32.0		ug/Kg		64	35 - 160
1,1-Dichloroethane	50.0	48.7		ug/Kg		97	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-466784/6
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	57.7		ug/Kg		115	80 - 140
1,1-Dichloroethene	50.0	44.8		ug/Kg		90	55 - 130
1,2-Dichloropropane	50.0	50.4		ug/Kg		101	65 - 130
1,3-Dichloropropane	50.0	54.7		ug/Kg		109	80 - 135
2,2-Dichloropropane	50.0	53.4		ug/Kg		107	65 - 140
1,1-Dichloropropene	50.0	55.0		ug/Kg		110	80 - 120
Ethylbenzene	50.0	51.7		ug/Kg		103	70 - 120
Hexachlorobutadiene	50.0	49.3		ug/Kg		99	60 - 140
Isopropylbenzene	50.0	51.5		ug/Kg		103	55 - 120
Methylene Chloride	50.0	48.4		ug/Kg		97	60 - 140
Methyl-t-Butyl Ether (MTBE)	50.0	66.9		ug/Kg		134	75 - 150
m,p-Xylene	50.0	54.1		ug/Kg		108	65 - 120
Naphthalene	50.0	75.4		ug/Kg		151	70 - 160
n-Butylbenzene	50.0	47.9		ug/Kg		96	65 - 115
N-Propylbenzene	50.0	48.5		ug/Kg		97	60 - 115
o-Xylene	50.0	54.4		ug/Kg		109	70 - 125
p-Isopropyltoluene	50.0	54.1		ug/Kg		108	70 - 120
sec-Butylbenzene	50.0	52.9		ug/Kg		106	70 - 120
Styrene	50.0	51.7		ug/Kg		103	75 - 130
tert-Butylbenzene	50.0	50.8		ug/Kg		102	70 - 125
1,1,1,2-Tetrachloroethane	50.0	54.9		ug/Kg		110	75 - 130
1,1,2,2-Tetrachloroethane	50.0	60.9		ug/Kg		122	75 - 150
Tetrachloroethene	50.0	50.3		ug/Kg		101	65 - 130
Toluene	50.0	51.5		ug/Kg		103	70 - 120
trans-1,2-Dichloroethene	50.0	51.4		ug/Kg		103	65 - 135
trans-1,3-Dichloropropene	50.0	61.1		ug/Kg		122	75 - 145
1,2,3-Trichlorobenzene	50.0	64.6		ug/Kg		129	75 - 145
1,2,4-Trichlorobenzene	50.0	60.1		ug/Kg		120	70 - 145
1,1,1-Trichloroethane	50.0	51.2		ug/Kg		102	70 - 135
1,1,2-Trichloroethane	50.0	55.9		ug/Kg		112	80 - 145
Trichloroethene	50.0	51.8		ug/Kg		104	65 - 120
Trichlorofluoromethane	50.0	45.8		ug/Kg		92	60 - 145
1,2,3-Trichloropropane	50.0	75.1		ug/Kg		150	65 - 150
1,2,4-Trimethylbenzene	50.0	50.5		ug/Kg		101	65 - 115
1,3,5-Trimethylbenzene	50.0	50.8		ug/Kg		102	65 - 115
Vinyl chloride	50.0	37.9		ug/Kg		76	45 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*80 - 135*
Toluene-d8 (Surr)	*102*		*80 - 122*

Lab Sample ID: LCSD 440-466784/7
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.2		ug/Kg		98	65 - 120	0	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-466784/7
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	54.8		ug/Kg		110	70 - 120	1	20
Bromochloromethane	50.0	55.4		ug/Kg		111	75 - 145	2	20
Bromodichloromethane	50.0	59.6		ug/Kg		119	75 - 135	3	20
Bromoform	50.0	60.1		ug/Kg		120	75 - 135	6	25
Bromomethane	50.0	43.6		ug/Kg		87	65 - 140	2	20
2-Butanone (MEK)	50.0	77.2		ug/Kg		154	25 - 170	4	30
Carbon tetrachloride	50.0	52.9		ug/Kg		106	65 - 130	0	20
Chlorobenzene	50.0	46.1		ug/Kg		92	70 - 120	4	20
Chloroethane	50.0	45.3		ug/Kg		91	60 - 135	3	25
Chloroform	50.0	49.5		ug/Kg		99	70 - 140	1	20
Chloromethane	50.0	32.4		ug/Kg		65	45 - 135	4	25
2-Chlorotoluene	50.0	53.5		ug/Kg		107	60 - 115	4	20
4-Chlorotoluene	50.0	54.8		ug/Kg		110	65 - 115	4	20
cis-1,2-Dichloroethene	50.0	52.2		ug/Kg		104	65 - 135	0	20
cis-1,3-Dichloropropene	50.0	54.5		ug/Kg		109	75 - 135	2	20
Dibromochloromethane	50.0	57.5		ug/Kg		115	75 - 135	4	20
1,2-Dibromo-3-Chloropropane	50.0	84.7	*	ug/Kg		169	75 - 150	6	30
1,2-Dibromoethane (EDB)	50.0	61.0		ug/Kg		122	85 - 140	5	20
Dibromomethane	50.0	58.3		ug/Kg		117	80 - 145	0	20
1,2-Dichlorobenzene	50.0	56.3		ug/Kg		113	75 - 125	2	20
1,3-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 115	3	20
1,4-Dichlorobenzene	50.0	49.2		ug/Kg		98	70 - 120	1	20
Dichlorodifluoromethane	50.0	30.5		ug/Kg		61	35 - 160	5	30
1,1-Dichloroethane	50.0	48.9		ug/Kg		98	65 - 135	0	20
1,2-Dichloroethane	50.0	56.4		ug/Kg		113	80 - 140	2	20
1,1-Dichloroethene	50.0	44.0		ug/Kg		88	55 - 130	2	20
1,2-Dichloropropane	50.0	52.2		ug/Kg		104	65 - 130	3	20
1,3-Dichloropropane	50.0	51.5		ug/Kg		103	80 - 135	6	20
2,2-Dichloropropane	50.0	52.7		ug/Kg		105	65 - 140	1	20
1,1-Dichloropropene	50.0	55.0		ug/Kg		110	80 - 120	0	20
Ethylbenzene	50.0	50.8		ug/Kg		102	70 - 120	2	20
Hexachlorobutadiene	50.0	51.6		ug/Kg		103	60 - 140	5	20
Isopropylbenzene	50.0	51.2		ug/Kg		102	55 - 120	1	20
Methylene Chloride	50.0	47.8		ug/Kg		96	60 - 140	1	20
Methyl-t-Butyl Ether (MTBE)	50.0	66.1		ug/Kg		132	75 - 150	1	20
m,p-Xylene	50.0	53.7		ug/Kg		107	65 - 120	1	20
Naphthalene	50.0	74.2		ug/Kg		148	70 - 160	2	25
n-Butylbenzene	50.0	50.4		ug/Kg		101	65 - 115	5	20
N-Propylbenzene	50.0	51.0		ug/Kg		102	60 - 115	5	20
o-Xylene	50.0	53.4		ug/Kg		107	70 - 125	2	20
p-Isopropyltoluene	50.0	57.2		ug/Kg		114	70 - 120	6	20
sec-Butylbenzene	50.0	55.7		ug/Kg		111	70 - 120	5	20
Styrene	50.0	50.4		ug/Kg		101	75 - 130	2	20
tert-Butylbenzene	50.0	53.7		ug/Kg		107	70 - 125	6	20
1,1,1,2-Tetrachloroethane	50.0	52.2		ug/Kg		104	75 - 130	5	20
1,1,2,2-Tetrachloroethane	50.0	61.0		ug/Kg		122	75 - 150	0	30
Tetrachloroethene	50.0	49.2		ug/Kg		98	65 - 130	2	20
Toluene	50.0	49.7		ug/Kg		99	70 - 120	4	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-466784/7
Matrix: Solid
Analysis Batch: 466784

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	50.4		ug/Kg		101	65 - 135	2	20
trans-1,3-Dichloropropene			50.0	58.3		ug/Kg		117	75 - 145	5	20
1,2,3-Trichlorobenzene			50.0	63.7		ug/Kg		127	75 - 145	1	20
1,2,4-Trichlorobenzene			50.0	60.1		ug/Kg		120	70 - 145	0	20
1,1,1-Trichloroethane			50.0	51.3		ug/Kg		103	70 - 135	0	20
1,1,2-Trichloroethane			50.0	52.2		ug/Kg		104	80 - 145	7	20
Trichloroethene			50.0	51.6		ug/Kg		103	65 - 120	0	20
Trichlorofluoromethane			50.0	45.1		ug/Kg		90	60 - 145	1	25
1,2,3-Trichloropropane			50.0	71.9		ug/Kg		144	65 - 150	4	25
1,2,4-Trimethylbenzene			50.0	53.0		ug/Kg		106	65 - 115	5	20
1,3,5-Trimethylbenzene			50.0	52.8		ug/Kg		106	65 - 115	4	20
Vinyl chloride			50.0	37.5		ug/Kg		75	45 - 135	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*74 - 124*
Dibromofluoromethane (Surr)	*107*		*80 - 135*
Toluene-d8 (Surr)	*99*		*80 - 122*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-467099/25
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/30/18 20:34	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*72*		*65 - 140*		*03/30/18 20:34*	*1*

Lab Sample ID: LCS 440-467099/51
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)			1600	1360		ug/Kg		85	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*

Lab Sample ID: LCSD 440-467099/52
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1360		ug/Kg		85	70 - 135	0	20

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-467099/52
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		65 - 140

Lab Sample ID: 440-207103-1 MS
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: AOC4-SV10-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		1600	1210		ug/Kg		76	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	92		65 - 140

Lab Sample ID: 440-207103-1 MSD
Matrix: Solid
Analysis Batch: 467099

Client Sample ID: AOC4-SV10-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1070		ug/Kg		68	60 - 140	12	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	84		65 - 140

Lab Sample ID: MB 440-467176/5
Matrix: Water
Analysis Batch: 467176

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			03/31/18 06:12	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		65 - 140		03/31/18 06:12	1

Lab Sample ID: LCS 440-467176/4
Matrix: Water
Analysis Batch: 467176

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	689		ug/L		86	80 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	100		65 - 140

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-207427-C-1 MS
Matrix: Water
Analysis Batch: 467176

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	678		ug/L		85	65 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*65 - 140*

Lab Sample ID: 440-207427-C-1 MSD
Matrix: Water
Analysis Batch: 467176

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	689		ug/L		86	65 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*

Lab Sample ID: MB 440-467331/5
Matrix: Solid
Analysis Batch: 467331

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			03/31/18 15:23	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*		*03/31/18 15:23*	*1*

Lab Sample ID: LCS 440-467331/3
Matrix: Solid
Analysis Batch: 467331

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)			1600	1360		ug/Kg		85	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*118*		*65 - 140*

Lab Sample ID: LCSD 440-467331/4
Matrix: Solid
Analysis Batch: 467331

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1330		ug/Kg		83	70 - 135	3	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*109*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 440-207103-8 MS
Matrix: Solid
Analysis Batch: 467331

Client Sample ID: AOC4-SV6-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND	F1	1570	797	F1	ug/Kg		51	60 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*

Lab Sample ID: 440-207103-8 MSD
Matrix: Solid
Analysis Batch: 467331

Client Sample ID: AOC4-SV6-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND	F1	1570	733	F1	ug/Kg		47	60 - 140	8	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-466303/1-A
Matrix: Water
Analysis Batch: 466390

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466303

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		03/27/18 11:02	03/27/18 19:41	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		03/27/18 11:02	03/27/18 19:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*60*		*45 - 120*	*03/27/18 11:02*	*03/27/18 19:41*	*1*

Lab Sample ID: LCS 440-466303/2-A
Matrix: Water
Analysis Batch: 466390

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466303

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1.00	0.470	J	mg/L		47	40 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
n-Octacosane	*55*		*45 - 120*

Lab Sample ID: LCSD 440-466303/3-A
Matrix: Water
Analysis Batch: 466390

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 466303

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	1.00	0.504		mg/L		50	40 - 115	7	25

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 440-466303/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 466390 — **Prep Batch: 466303**

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	60		45 - 120

Lab Sample ID: MB 440-466419/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 466582 — **Prep Batch: 466419**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 11:31	1
ORO (C23-C40)	3.10	J	5.0	2.5	mg/Kg		03/27/18 16:59	03/28/18 11:31	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	80		40 - 140	03/27/18 16:59	03/28/18 11:31	1

Lab Sample ID: LCS 440-466419/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 466582 — **Prep Batch: 466419**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.7	55.9		mg/Kg		84	45 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	81		40 - 140

Lab Sample ID: 440-207103-1 MS — **Client Sample ID: AOC4-SV10-5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 466582 — **Prep Batch: 466419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	ND		65.0	38.9		mg/Kg		60	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	56		40 - 140

Lab Sample ID: 440-207103-1 MSD — **Client Sample ID: AOC4-SV10-5**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 466582 — **Prep Batch: 466419**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		66.4	38.9		mg/Kg		59	40 - 120	0	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	54		40 - 140

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-466355/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 466565 — **Prep Batch: 466355**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1221	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1232	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1242	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1248	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1254	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1
Aroclor 1260	ND		1.0	0.50	ug/L		03/27/18 13:38	03/28/18 11:50	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*73*		*26 - 115*	*03/27/18 13:38*	*03/28/18 11:50*	*1*

Lab Sample ID: LCS 440-466355/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 466565 — **Prep Batch: 466355**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	2.22		ug/L		56	50 - 115		
Aroclor 1260			4.00	2.68		ug/L		67	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*65*		*26 - 115*

Lab Sample ID: LCSD 440-466355/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 466565 — **Prep Batch: 466355**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	2.31		ug/L		58	50 - 115	4	22
Aroclor 1260			4.00	2.78		ug/L		70	53 - 120	4	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*67*		*26 - 115*

Lab Sample ID: MB 440-466422/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 466277 — **Prep Batch: 466422**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1221	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1232	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1242	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1248	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1254	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1
Aroclor 1260	ND		50	17	ug/Kg		03/27/18 17:04	03/28/18 11:11	1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: MB 440-466422/1-A
Matrix: Solid
Analysis Batch: 466277

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 466422

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl (Surr)	104		45 - 120	03/27/18 17:04	03/28/18 11:11	1

Lab Sample ID: LCS 440-466422/2-A
Matrix: Solid
Analysis Batch: 466277

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 466422

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	242		ug/Kg		91	65 - 115
Aroclor 1260	267	270		ug/Kg		101	65 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	92		45 - 120

Lab Sample ID: 440-207103-1 MS
Matrix: Solid
Analysis Batch: 466277

Client Sample ID: AOC4-SV10-5
Prep Type: Total/NA
Prep Batch: 466422

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	212		ug/Kg		80	50 - 120
Aroclor 1260	ND		265	211		ug/Kg		79	50 - 125

Surrogate	MS %Recovery	MS Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	69		45 - 120

Lab Sample ID: 440-207103-1 MSD
Matrix: Solid
Analysis Batch: 466277

Client Sample ID: AOC4-SV10-5
Prep Type: Total/NA
Prep Batch: 466422

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		261	221		ug/Kg		84	50 - 120	4	30
Aroclor 1260	ND		261	230		ug/Kg		88	50 - 125	8	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
DCB Decachlorobiphenyl (Surr)	76		45 - 120

GC/MS VOA

Analysis Batch: 466712

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	8260B	
440-207103-11	TB	Total/NA	Water	8260B	
MB 440-466712/4	Method Blank	Total/NA	Water	8260B	
LCS 440-466712/5	Lab Control Sample	Total/NA	Water	8260B	
440-207096-B-2 MS	Matrix Spike	Total/NA	Water	8260B	
440-207096-B-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

Analysis Batch: 466784

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	8260B	466828
440-207103-2	AOC4-SV10-15	Total/NA	Solid	8260B	466828
440-207103-3	AOC4-SV9-5	Total/NA	Solid	8260B	466828
440-207103-4	AOC4-SV9-15	Total/NA	Solid	8260B	466828
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	8260B	466828
440-207103-6	AOC4-SV8-5	Total/NA	Solid	8260B	466828
440-207103-7	AOC4-SV8-15	Total/NA	Solid	8260B	466828
440-207103-8	AOC4-SV6-5	Total/NA	Solid	8260B	466828
440-207103-9	AOC4-SV6-15	Total/NA	Solid	8260B	466828
MB 440-466784/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-466784/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-466784/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 466828

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	5035	
440-207103-2	AOC4-SV10-15	Total/NA	Solid	5035	
440-207103-3	AOC4-SV9-5	Total/NA	Solid	5035	
440-207103-4	AOC4-SV9-15	Total/NA	Solid	5035	
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	5035	
440-207103-6	AOC4-SV8-5	Total/NA	Solid	5035	
440-207103-7	AOC4-SV8-15	Total/NA	Solid	5035	
440-207103-8	AOC4-SV6-5	Total/NA	Solid	5035	
440-207103-9	AOC4-SV6-15	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 467099

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	8015B	
440-207103-2	AOC4-SV10-15	Total/NA	Solid	8015B	
440-207103-3	AOC4-SV9-5	Total/NA	Solid	8015B	
440-207103-4	AOC4-SV9-15	Total/NA	Solid	8015B	
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	8015B	
440-207103-6	AOC4-SV8-5	Total/NA	Solid	8015B	
440-207103-7	AOC4-SV8-15	Total/NA	Solid	8015B	
440-207103-9	AOC4-SV6-15	Total/NA	Solid	8015B	
MB 440-467099/25	Method Blank	Total/NA	Solid	8015B	
LCS 440-467099/51	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-467099/52	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-207103-1 MS	AOC4-SV10-5	Total/NA	Solid	8015B	

GC VOA (Continued)

Analysis Batch: 467099 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1 MSD	AOC4-SV10-5	Total/NA	Solid	8015B	

Analysis Batch: 467176

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	8015B	
MB 440-467176/5	Method Blank	Total/NA	Water	8015B	
LCS 440-467176/4	Lab Control Sample	Total/NA	Water	8015B	
440-207427-C-1 MS	Matrix Spike	Total/NA	Water	8015B	
440-207427-C-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

Analysis Batch: 467331

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-8	AOC4-SV6-5	Total/NA	Solid	8015B	
MB 440-467331/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-467331/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-467331/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-207103-8 MS	AOC4-SV6-5	Total/NA	Solid	8015B	
440-207103-8 MSD	AOC4-SV6-5	Total/NA	Solid	8015B	

GC Semi VOA

Analysis Batch: 466277

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	8082	466422
440-207103-2	AOC4-SV10-15	Total/NA	Solid	8082	466422
440-207103-3	AOC4-SV9-5	Total/NA	Solid	8082	466422
440-207103-4	AOC4-SV9-15	Total/NA	Solid	8082	466422
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	8082	466422
440-207103-6	AOC4-SV8-5	Total/NA	Solid	8082	466422
440-207103-7	AOC4-SV8-15	Total/NA	Solid	8082	466422
440-207103-8	AOC4-SV6-5	Total/NA	Solid	8082	466422
440-207103-9	AOC4-SV6-15	Total/NA	Solid	8082	466422
MB 440-466422/1-A	Method Blank	Total/NA	Solid	8082	466422
LCS 440-466422/2-A	Lab Control Sample	Total/NA	Solid	8082	466422
440-207103-1 MS	AOC4-SV10-5	Total/NA	Solid	8082	466422
440-207103-1 MSD	AOC4-SV10-5	Total/NA	Solid	8082	466422

Prep Batch: 466303

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	3510C	
MB 440-466303/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-466303/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-466303/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 466355

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	3510C	
MB 440-466355/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-466355/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-466355/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

GC Semi VOA (Continued)

Analysis Batch: 466390

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	8015B	466303
MB 440-466303/1-A	Method Blank	Total/NA	Water	8015B	466303
LCS 440-466303/2-A	Lab Control Sample	Total/NA	Water	8015B	466303
LCSD 440-466303/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	466303

Prep Batch: 466419

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	3546	
440-207103-2	AOC4-SV10-15	Total/NA	Solid	3546	
440-207103-3	AOC4-SV9-5	Total/NA	Solid	3546	
440-207103-4	AOC4-SV9-15	Total/NA	Solid	3546	
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	3546	
440-207103-6	AOC4-SV8-5	Total/NA	Solid	3546	
440-207103-7	AOC4-SV8-15	Total/NA	Solid	3546	
440-207103-8	AOC4-SV6-5	Total/NA	Solid	3546	
440-207103-9	AOC4-SV6-15	Total/NA	Solid	3546	
MB 440-466419/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-466419/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-207103-1 MS	AOC4-SV10-5	Total/NA	Solid	3546	
440-207103-1 MSD	AOC4-SV10-5	Total/NA	Solid	3546	

Prep Batch: 466422

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	3546	
440-207103-2	AOC4-SV10-15	Total/NA	Solid	3546	
440-207103-3	AOC4-SV9-5	Total/NA	Solid	3546	
440-207103-4	AOC4-SV9-15	Total/NA	Solid	3546	
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	3546	
440-207103-6	AOC4-SV8-5	Total/NA	Solid	3546	
440-207103-7	AOC4-SV8-15	Total/NA	Solid	3546	
440-207103-8	AOC4-SV6-5	Total/NA	Solid	3546	
440-207103-9	AOC4-SV6-15	Total/NA	Solid	3546	
MB 440-466422/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-466422/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-207103-1 MS	AOC4-SV10-5	Total/NA	Solid	3546	
440-207103-1 MSD	AOC4-SV10-5	Total/NA	Solid	3546	

Analysis Batch: 466565

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-10	F032618B	Total/NA	Water	8082	466355
MB 440-466355/1-A	Method Blank	Total/NA	Water	8082	466355
LCS 440-466355/2-A	Lab Control Sample	Total/NA	Water	8082	466355
LCSD 440-466355/3-A	Lab Control Sample Dup	Total/NA	Water	8082	466355

Analysis Batch: 466581

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-9	AOC4-SV6-15	Total/NA	Solid	8015B	466419

Analysis Batch: 466582

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-1	AOC4-SV10-5	Total/NA	Solid	8015B	466419

GC Semi VOA (Continued)

Analysis Batch: 466582 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-207103-2	AOC4-SV10-15	Total/NA	Solid	8015B	466419
440-207103-3	AOC4-SV9-5	Total/NA	Solid	8015B	466419
440-207103-4	AOC4-SV9-15	Total/NA	Solid	8015B	466419
440-207103-5	AOC4-SV9-15d	Total/NA	Solid	8015B	466419
440-207103-6	AOC4-SV8-5	Total/NA	Solid	8015B	466419
440-207103-7	AOC4-SV8-15	Total/NA	Solid	8015B	466419
440-207103-8	AOC4-SV6-5	Total/NA	Solid	8015B	466419
MB 440-466419/1-A	Method Blank	Total/NA	Solid	8015B	466419
LCS 440-466419/2-A	Lab Control Sample	Total/NA	Solid	8015B	466419
440-207103-1 MS	AOC4-SV10-5	Total/NA	Solid	8015B	466419
440-207103-1 MSD	AOC4-SV10-5	Total/NA	Solid	8015B	466419

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
*	LCS or LCSD is outside acceptance limits.
*	ISTD response or retention time outside acceptable limits
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-207103-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☑ Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 3/26/2018	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of ____ COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ____ Std ____			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y / N)	Perform MS / MSD (Y / N)	VOCs	PCBs	TPH	Sample Specific Notes:
AOC4-SV10-5	3/26/2018	815	G	S	6			X	X	X	
AOC4-SV10-15	3/26/2018	850	G	S	6			X	X	X	
AOC4-SV9-5	3/26/2018	910	G	S	6			X	X	X	
AOC4-SV9-15	3/26/2018	945	G	S	6			X	X	X	
AOC4-SV9-15d	3/26/2018	946	G	S	6			X	X	X	
AOC4-SV8-5	3/26/2018	1040	G	S	6			X	X	X	
AOC4-SV8-15	3/26/2018	1100	G	S	6			X	X	X	
AOC4-SV6-5	3/26/2018	1135	G	S	6			X	X	X	
AOC4-SV6-15	3/26/2018	1150	G	S	6			X	X	X	
FD326188	3/26/2018	1200	~~G~~ PS	W	10			X	X	X	
TB	3/26/2018	—	G	W	3			X			
	~~3/26/2018~~	PS	~~G~~								

440-207103 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☑ Disposal by Lab ☐ Archive for ____ Months

Special Instructions/QC Requirements & Comments: NOTE: H = HOLD UNTIL REQUESTED BY PARSONS TO PROCESS

If 89 2.8/2.5

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd. ____ Corr'd: ____ | Therm ID No.: ____

Relinquished by:	Company: Parsons	Date/Time: 3/26/2018 1501	Received by:	Company: UPS	Date/Time: 3/27/18 1500
Relinquished by:	Company: Parsons	Date/Time: 3-26-18 1810	Received by:	Company:	Date/Time:
Relinquished by:	Company:	Date/Time:	Received in Laboratory by:	Company: TA-IRV	Date/Time: 3/26/18 1840

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-207103-1

Login Number: 207103

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-211213-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
5/23/2018 10:31:10 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 22
Method Summary 25
Lab Chronicle 26
QC Sample Results 29
QC Association Summary 56
Definitions/Glossary 60
Certification Summary 61
Chain of Custody 62
Receipt Checklists 65

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-211213-1	AOC4-SV12-5	Solid	05/12/18 07:59	05/12/18 14:10
440-211213-2	AOC4-SV12-15	Solid	05/12/18 08:15	05/12/18 14:10
440-211213-3	AOC4-SV13-5	Solid	05/12/18 09:10	05/12/18 14:10
440-211213-4	AOC4-SV13-15	Solid	05/12/18 10:15	05/12/18 14:10
440-211213-5	AOC4-SV13-15DUP	Solid	05/12/18 10:20	05/12/18 14:10
440-211213-6	EB-51219-C	Water	05/12/18 10:45	05/12/18 14:10
440-211213-8	AOC4-SV11-5	Solid	05/12/18 11:04	05/12/18 14:10
440-211213-9	AOC4-SV11-15	Solid	05/12/18 11:30	05/12/18 14:10

Job ID: 440-211213-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-211213-1

Comments
No additional comments.

Receipt
The samples were received on 5/12/2018 2:10 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 3.9º C.

Receipt Exceptions
The container label for the following sample did not match the information listed on the Chain-of-Custody (COC): AOC4-SV11-15 (440-211213-9). On the COC sample ID was listed AO4-SV11-15 and on the container labels was listed AOC4-SAV11-15. Client was contacted concerning the sample ID for AOC4-SV11-15 (440-211213-9). The sample ID was changed per client's 5/14/18 email.

EPA 8260B analysis could not be performed on the trip blank sample; TB (440-211213-7). There was only one vial received for the trip blank and it cracked during storage in the lab's freezer prior to analysis.

GC/MS VOA
Method(s) 8260B: Surrogate recovery for 4-Bromofluorobenzene for the following sample was above the upper control limit: AOC4-SV12-5 (440-211213-1). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015B: Surrogate recoveries for the following batch QC samples were outside control limits for analytical batch 440-476869: (440-210928-F-4 MS) and (440-210928-F-4 MSD). Evidence of matrix interference is present.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with batch preparation batch 440-476183 and analytical batch 440-476494. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-476777 and analytical batch 440-477820. The laboratory control sample (LCS) was performed in duplicate to provide precision data for this batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
Method(s) 3510C / 8082: Elevated reporting limits are provided for the following sample due to insufficient sample volume of less than 250ml provided: EB-51219-C (440-211213-6).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV12-5 — Lab Sample ID: 440-211213-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.8	J	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV12-15 — Lab Sample ID: 440-211213-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	3.7	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV13-5 — Lab Sample ID: 440-211213-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	2.4	J	4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV13-15 — Lab Sample ID: 440-211213-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	2.5	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV13-15DUP — Lab Sample ID: 440-211213-5

No Detections.

Client Sample ID: EB-51219-C — Lab Sample ID: 440-211213-6

No Detections.

Client Sample ID: AOC4-SV11-5 — Lab Sample ID: 440-211213-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	5.9		4.9	2.4	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV11-15 — Lab Sample ID: 440-211213-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	3.2	J	4.9	2.4	mg/Kg	1		8015B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV12-5
Date Collected: 05/12/18 07:59
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Bromobenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Bromochloromethane	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Bromodichloromethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Bromoform	ND		4.0	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
2-Butanone (MEK)	ND		8.1	4.0	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Carbon tetrachloride	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Chlorobenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Chloroethane	ND		4.0	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Chloroform	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Chloromethane	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
2-Chlorotoluene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
4-Chlorotoluene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
cis-1,2-Dichloroethene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
cis-1,3-Dichloropropene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Dibromochloromethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2-Dibromo-3-Chloropropane	ND		4.0	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2-Dibromoethane (EDB)	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Dibromomethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,3-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,4-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Dichlorodifluoromethane	ND		4.0	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1-Dichloroethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2-Dichloroethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1-Dichloroethene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2-Dichloropropane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,3-Dichloropropane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1-Dichloropropene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Ethylbenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Hexachlorobutadiene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Isopropylbenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Methylene Chloride	ND		16	4.0	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Methyl-t-Butyl Ether (MTBE)	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
m,p-Xylene	ND		3.2	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Naphthalene	ND		4.0	1.6	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
n-Butylbenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
N-Propylbenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
o-Xylene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
p-Isopropyltoluene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
sec-Butylbenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Styrene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
tert-Butylbenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1,1,2-Tetrachloroethane	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Tetrachloroethene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Toluene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
trans-1,2-Dichloroethene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1

Client Sample ID: AOC4-SV12-5
Date Collected: 05/12/18 07:59
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2,3-Trichlorobenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2,4-Trichlorobenzene	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1,1-Trichloroethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,1,2-Trichloroethane	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Trichloroethene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Trichlorofluoromethane	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1
Vinyl chloride	ND		4.0	0.81	ug/Kg		05/17/18 09:39	05/17/18 13:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*129*	*X*	*79 - 120*	*05/17/18 09:39*	*05/17/18 13:03*	*1*
Dibromofluoromethane (Surr)	*110*		*60 - 120*	*05/17/18 09:39*	*05/17/18 13:03*	*1*
Toluene-d8 (Surr)	*109*		*79 - 123*	*05/17/18 09:39*	*05/17/18 13:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg			05/17/18 22:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*69*		*65 - 140*		*05/17/18 22:10*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		05/15/18 06:51	05/15/18 13:20	1
ORO (C23-C40)	**4.8**	**J**	4.9	2.5	mg/Kg		05/15/18 06:51	05/15/18 13:20	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*05/15/18 06:51*	*05/15/18 13:20*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1221	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1232	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1242	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1248	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1254	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1
Aroclor 1260	ND		49	17	ug/Kg		05/16/18 17:47	05/17/18 17:09	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*59*		*45 - 120*	*05/16/18 17:47*	*05/17/18 17:09*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV12-15
Date Collected: 05/12/18 08:15
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Bromobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Bromochloromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Bromodichloromethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Bromoform	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Carbon tetrachloride	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Chlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Chloroethane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Chloroform	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Chloromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
2-Chlorotoluene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
4-Chlorotoluene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
cis-1,2-Dichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
cis-1,3-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Dibromochloromethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2-Dibromoethane (EDB)	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Dibromomethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,3-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,4-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Dichlorodifluoromethane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1-Dichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2-Dichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1-Dichloroethene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,3-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Ethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Hexachlorobutadiene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Isopropylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Methylene Chloride	ND		16	3.9	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Methyl-t-Butyl Ether (MTBE)	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
m,p-Xylene	ND		3.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Naphthalene	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
n-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
N-Propylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
o-Xylene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
p-Isopropyltoluene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
sec-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Styrene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
tert-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1,1,2-Tetrachloroethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Tetrachloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Toluene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
trans-1,2-Dichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1

Client Sample ID: AOC4-SV12-15
Date Collected: 05/12/18 08:15
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2,3-Trichlorobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1,1-Trichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,1,2-Trichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Trichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Trichlorofluoromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1
Vinyl chloride	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 17:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*05/16/18 09:31*	*05/16/18 17:48*	*1*
Dibromofluoromethane (Surr)	*111*		*60 - 120*	*05/16/18 09:31*	*05/16/18 17:48*	*1*
Toluene-d8 (Surr)	*112*		*79 - 123*	*05/16/18 09:31*	*05/16/18 17:48*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/17/18 23:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*		*05/17/18 23:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 14:25	1
ORO (C23-C40)	**3.7**	**J**	5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 14:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*76*		*40 - 140*	*05/15/18 06:51*	*05/15/18 14:25*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1221	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1232	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1242	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1248	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1254	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1
Aroclor 1260	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 17:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*05/16/18 17:47*	*05/17/18 17:23*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV13-5
Date Collected: 05/12/18 09:10
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Bromobenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Bromochloromethane	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Bromodichloromethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Bromoform	ND		3.6	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
2-Butanone (MEK)	ND		7.1	3.6	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Carbon tetrachloride	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Chlorobenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Chloroethane	ND		3.6	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Chloroform	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Chloromethane	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
2-Chlorotoluene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
4-Chlorotoluene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
cis-1,2-Dichloroethene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
cis-1,3-Dichloropropene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Dibromochloromethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2-Dibromo-3-Chloropropane	ND		3.6	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2-Dibromoethane (EDB)	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Dibromomethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2-Dichlorobenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,3-Dichlorobenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,4-Dichlorobenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Dichlorodifluoromethane	ND		3.6	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1-Dichloroethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2-Dichloroethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1-Dichloroethene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2-Dichloropropane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,3-Dichloropropane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
2,2-Dichloropropane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1-Dichloropropene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Ethylbenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Hexachlorobutadiene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Isopropylbenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Methylene Chloride	ND		14	3.6	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Methyl-t-Butyl Ether (MTBE)	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
m,p-Xylene	ND		2.9	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Naphthalene	ND		3.6	1.4	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
n-Butylbenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
N-Propylbenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
o-Xylene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
p-Isopropyltoluene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
sec-Butylbenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Styrene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
tert-Butylbenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1,1,2-Tetrachloroethane	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Tetrachloroethene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Toluene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
trans-1,2-Dichloroethene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1

Client Sample ID: AOC4-SV13-5
Date Collected: 05/12/18 09:10
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2,3-Trichlorobenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2,4-Trichlorobenzene	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1,1-Trichloroethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,1,2-Trichloroethane	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Trichloroethene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Trichlorofluoromethane	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2,3-Trichloropropane	ND		7.1	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,2,4-Trimethylbenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
1,3,5-Trimethylbenzene	ND		1.4	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1
Vinyl chloride	ND		3.6	0.71	ug/Kg		05/17/18 09:39	05/17/18 13:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*117*		*79 - 120*	*05/17/18 09:39*	*05/17/18 13:31*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*05/17/18 09:39*	*05/17/18 13:31*	*1*
Toluene-d8 (Surr)	*113*		*79 - 123*	*05/17/18 09:39*	*05/17/18 13:31*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/18/18 11:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*		*05/18/18 11:48*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 14:47	1
ORO (C23-C40)	**2.4**	**J**	4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 14:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*61*		*40 - 140*	*05/15/18 06:51*	*05/15/18 14:47*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1221	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1232	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1242	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1248	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1254	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1
Aroclor 1260	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*05/16/18 17:47*	*05/18/18 19:35*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV13-15
Date Collected: 05/12/18 10:15
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Bromobenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Bromochloromethane	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Bromodichloromethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Bromoform	ND		3.7	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
2-Butanone (MEK)	ND		7.4	3.7	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Carbon tetrachloride	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Chlorobenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Chloroethane	ND		3.7	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Chloroform	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Chloromethane	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
2-Chlorotoluene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
4-Chlorotoluene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
cis-1,2-Dichloroethene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
cis-1,3-Dichloropropene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Dibromochloromethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2-Dibromoethane (EDB)	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Dibromomethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2-Dichlorobenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,3-Dichlorobenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,4-Dichlorobenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Dichlorodifluoromethane	ND		3.7	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1-Dichloroethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2-Dichloroethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1-Dichloroethene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2-Dichloropropane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,3-Dichloropropane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
2,2-Dichloropropane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1-Dichloropropene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Ethylbenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Hexachlorobutadiene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Isopropylbenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Methylene Chloride	ND		15	3.7	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Methyl-t-Butyl Ether (MTBE)	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
m,p-Xylene	ND		2.9	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Naphthalene	ND		3.7	1.5	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
n-Butylbenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
N-Propylbenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
o-Xylene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
p-Isopropyltoluene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
sec-Butylbenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Styrene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
tert-Butylbenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1,1,2-Tetrachloroethane	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Tetrachloroethene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Toluene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
trans-1,2-Dichloroethene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1

Client Sample ID: AOC4-SV13-15
Date Collected: 05/12/18 10:15
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2,3-Trichlorobenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2,4-Trichlorobenzene	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1,1-Trichloroethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,1,2-Trichloroethane	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Trichloroethene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Trichlorofluoromethane	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2,3-Trichloropropane	ND		7.4	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,2,4-Trimethylbenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
1,3,5-Trimethylbenzene	ND		1.5	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1
Vinyl chloride	ND		3.7	0.74	ug/Kg		05/17/18 09:39	05/17/18 13:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*109*		*79 - 120*	*05/17/18 09:39*	*05/17/18 13:58*	*1*
Dibromofluoromethane (Surr)	*109*		*60 - 120*	*05/17/18 09:39*	*05/17/18 13:58*	*1*
Toluene-d8 (Surr)	*111*		*79 - 123*	*05/17/18 09:39*	*05/17/18 13:58*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/18/18 00:29	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*		*65 - 140*		*05/18/18 00:29*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 15:08	1
ORO (C23-C40)	**2.5**	**J**	5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 15:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*69*		*40 - 140*	*05/15/18 06:51*	*05/15/18 15:08*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1221	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1232	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1242	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1248	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1254	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1
Aroclor 1260	ND		49	17	ug/Kg		05/16/18 17:47	05/18/18 19:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*86*		*45 - 120*	*05/16/18 17:47*	*05/18/18 19:51*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV13-15DUP
Date Collected: 05/12/18 10:20
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Bromobenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Bromochloromethane	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Bromodichloromethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Bromoform	ND		3.5	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
2-Butanone (MEK)	ND		7.0	3.5	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Carbon tetrachloride	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Chlorobenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Chloroethane	ND		3.5	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Chloroform	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Chloromethane	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
2-Chlorotoluene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
4-Chlorotoluene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
cis-1,2-Dichloroethene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
cis-1,3-Dichloropropene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Dibromochloromethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2-Dibromo-3-Chloropropane	ND		3.5	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2-Dibromoethane (EDB)	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Dibromomethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2-Dichlorobenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,3-Dichlorobenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,4-Dichlorobenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Dichlorodifluoromethane	ND		3.5	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1-Dichloroethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2-Dichloroethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1-Dichloroethene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2-Dichloropropane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,3-Dichloropropane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
2,2-Dichloropropane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1-Dichloropropene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Ethylbenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Hexachlorobutadiene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Isopropylbenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Methylene Chloride	ND		14	3.5	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Methyl-t-Butyl Ether (MTBE)	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
m,p-Xylene	ND		2.8	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Naphthalene	ND		3.5	1.4	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
n-Butylbenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
N-Propylbenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
o-Xylene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
p-Isopropyltoluene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
sec-Butylbenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Styrene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
tert-Butylbenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1,1,2-Tetrachloroethane	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1,2,2-Tetrachloroethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Tetrachloroethene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Toluene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
trans-1,2-Dichloroethene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1

Client Sample ID: AOC4-SV13-15DUP

Date Collected: 05/12/18 10:20
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2,3-Trichlorobenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2,4-Trichlorobenzene	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1,1-Trichloroethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,1,2-Trichloroethane	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Trichloroethene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Trichlorofluoromethane	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2,3-Trichloropropane	ND		7.0	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,2,4-Trimethylbenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
1,3,5-Trimethylbenzene	ND		1.4	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1
Vinyl chloride	ND		3.5	0.70	ug/Kg		05/16/18 09:31	05/16/18 18:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*	*05/16/18 09:31*	*05/16/18 18:03*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*05/16/18 09:31*	*05/16/18 18:03*	*1*
Toluene-d8 (Surr)	*108*		*79 - 123*	*05/16/18 09:31*	*05/16/18 18:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg			05/18/18 13:12	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*84*		*65 - 140*		*05/18/18 13:12*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 15:30	1
ORO (C23-C40)	ND		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 15:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*05/15/18 06:51*	*05/15/18 15:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1221	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1232	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1242	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1248	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1254	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1
Aroclor 1260	ND		48	16	ug/Kg		05/16/18 17:47	05/18/18 20:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*65*		*45 - 120*	*05/16/18 17:47*	*05/18/18 20:06*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: EB-51219-C
Date Collected: 05/12/18 10:45
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Bromobenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Bromochloromethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Bromodichloromethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Bromoform	ND		1.0	0.40	ug/L			05/18/18 04:37	1
Bromomethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			05/18/18 04:37	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Chlorobenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Chloroethane	ND		1.0	0.40	ug/L			05/18/18 04:37	1
Chloroform	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Chloromethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Dibromochloromethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			05/18/18 04:37	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Dibromomethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			05/18/18 04:37	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			05/18/18 04:37	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Ethylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Isopropylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Methylene Chloride	ND		2.0	0.88	ug/L			05/18/18 04:37	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			05/18/18 04:37	1
m,p-Xylene	ND		1.0	0.50	ug/L			05/18/18 04:37	1
Naphthalene	ND		1.0	0.40	ug/L			05/18/18 04:37	1
n-Butylbenzene	ND		1.0	0.40	ug/L			05/18/18 04:37	1
N-Propylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
o-Xylene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Styrene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Tetrachloroethene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Toluene	ND		0.50	0.25	ug/L			05/18/18 04:37	1

Client Sample ID: EB-51219-C
Date Collected: 05/12/18 10:45
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			05/18/18 04:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			05/18/18 04:37	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Trichloroethene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			05/18/18 04:37	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			05/18/18 04:37	1
Vinyl chloride	ND		0.50	0.25	ug/L			05/18/18 04:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*80 - 120*		*05/18/18 04:37*	*1*
Dibromofluoromethane (Surr)	*100*		*76 - 132*		*05/18/18 04:37*	*1*
Toluene-d8 (Surr)	*109*		*80 - 128*		*05/18/18 04:37*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			05/18/18 07:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*82*		*65 - 140*		*05/18/18 07:34*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.52	0.26	mg/L		05/15/18 08:36	05/16/18 12:31	1
ORO (C23-C40)	ND		0.52	0.26	mg/L		05/15/18 08:36	05/16/18 12:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*72*		*45 - 120*	*05/15/18 08:36*	*05/16/18 12:31*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1221	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1232	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1242	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1248	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1254	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1
Aroclor 1260	ND		1.2	0.58	ug/L		05/17/18 06:50	05/22/18 13:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*101*		*26 - 115*	*05/17/18 06:50*	*05/22/18 13:15*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV11-5
Date Collected: 05/12/18 11:04
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Bromobenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Bromochloromethane	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Bromodichloromethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Bromoform	ND		4.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
2-Butanone (MEK)	ND		8.1	4.1	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Carbon tetrachloride	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Chlorobenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Chloroethane	ND		4.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Chloroform	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Chloromethane	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
2-Chlorotoluene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
4-Chlorotoluene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
cis-1,2-Dichloroethene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
cis-1,3-Dichloropropene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Dibromochloromethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2-Dibromoethane (EDB)	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Dibromomethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,3-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,4-Dichlorobenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Dichlorodifluoromethane	ND		4.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1-Dichloroethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2-Dichloroethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1-Dichloroethene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2-Dichloropropane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,3-Dichloropropane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
2,2-Dichloropropane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1-Dichloropropene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Ethylbenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Hexachlorobutadiene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Isopropylbenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Methylene Chloride	ND		16	4.1	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
m,p-Xylene	ND		3.2	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Naphthalene	ND		4.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
n-Butylbenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
N-Propylbenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
o-Xylene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
p-Isopropyltoluene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
sec-Butylbenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Styrene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
tert-Butylbenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Tetrachloroethene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Toluene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
trans-1,2-Dichloroethene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1

Client Sample ID: AOC4-SV11-5
Date Collected: 05/12/18 11:04
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-8
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2,3-Trichlorobenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2,4-Trichlorobenzene	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1,1-Trichloroethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,1,2-Trichloroethane	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Trichloroethene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Trichlorofluoromethane	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2,3-Trichloropropane	ND		8.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,2,4-Trimethylbenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
1,3,5-Trimethylbenzene	ND		1.6	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1
Vinyl chloride	ND		4.1	0.81	ug/Kg		05/16/18 09:31	05/16/18 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*79 - 120*	*05/16/18 09:31*	*05/16/18 18:30*	*1*
Dibromofluoromethane (Surr)	*108*		*60 - 120*	*05/16/18 09:31*	*05/16/18 18:30*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*05/16/18 09:31*	*05/16/18 18:30*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/18/18 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*81*		*65 - 140*		*05/18/18 13:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 15:53	1
ORO (C23-C40)	**5.9**		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 15:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*05/15/18 06:51*	*05/15/18 15:53*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1221	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1232	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1242	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1248	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1254	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1
Aroclor 1260	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*	*05/16/18 17:47*	*05/18/18 20:22*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV11-15
Date Collected: 05/12/18 11:30
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Bromobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Bromochloromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Bromodichloromethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Bromoform	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
2-Butanone (MEK)	ND		7.8	3.9	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Carbon tetrachloride	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Chlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Chloroethane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Chloroform	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Chloromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
2-Chlorotoluene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
4-Chlorotoluene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
cis-1,2-Dichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
cis-1,3-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Dibromochloromethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2-Dibromo-3-Chloropropane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2-Dibromoethane (EDB)	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Dibromomethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,3-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,4-Dichlorobenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Dichlorodifluoromethane	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1-Dichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2-Dichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1-Dichloroethene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,3-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
2,2-Dichloropropane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Ethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Hexachlorobutadiene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Isopropylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Methylene Chloride	ND		16	3.9	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Methyl-t-Butyl Ether (MTBE)	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
m,p-Xylene	ND		3.1	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Naphthalene	ND		3.9	1.6	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
n-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
N-Propylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
o-Xylene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
p-Isopropyltoluene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
sec-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Styrene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
tert-Butylbenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1,1,2-Tetrachloroethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Tetrachloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Toluene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
trans-1,2-Dichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1

Client Sample ID: AOC4-SV11-15
Date Collected: 05/12/18 11:30
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-9
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2,3-Trichlorobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2,4-Trichlorobenzene	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1,1-Trichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,1,2-Trichloroethane	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Trichloroethene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Trichlorofluoromethane	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2,3-Trichloropropane	ND		7.8	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,2,4-Trimethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
1,3,5-Trimethylbenzene	ND		1.6	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1
Vinyl chloride	ND		3.9	0.78	ug/Kg		05/16/18 09:31	05/16/18 18:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*79 - 120*	*05/16/18 09:31*	*05/16/18 18:56*	*1*
Dibromofluoromethane (Surr)	*107*		*60 - 120*	*05/16/18 09:31*	*05/16/18 18:56*	*1*
Toluene-d8 (Surr)	*110*		*79 - 123*	*05/16/18 09:31*	*05/16/18 18:56*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/18/18 01:53	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*65 - 140*		*05/18/18 01:53*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 16:37	1
ORO (C23-C40)	**3.2**	**J**	4.9	2.4	mg/Kg		05/15/18 06:51	05/15/18 16:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*40 - 140*	*05/15/18 06:51*	*05/15/18 16:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1221	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1232	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1242	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1248	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1254	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1
Aroclor 1260	ND		50	17	ug/Kg		05/16/18 17:47	05/18/18 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*	*05/16/18 17:47*	*05/18/18 20:37*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(79-120)	(60-120)	(79-123)
440-211119-C-1 MS	Matrix Spike	103	103	98
440-211119-C-1 MSD	Matrix Spike Duplicate	104	105	105
440-211213-1	AOC4-SV12-5	129 X	110	109
440-211213-2	AOC4-SV12-15	110	111	112
440-211213-3	AOC4-SV13-5	117	109	113
440-211213-4	AOC4-SV13-15	109	109	111
440-211213-5	AOC4-SV13-15DUP	100	108	108
440-211213-8	AOC4-SV11-5	108	108	110
440-211213-9	AOC4-SV11-15	110	107	110
LCS 440-476451/4	Lab Control Sample	95	103	97
LCS 440-476460/6	Lab Control Sample	100	106	100
LCS 440-476762/6	Lab Control Sample	105	109	99
LCSD 440-476451/5	Lab Control Sample Dup	96	104	98
LCSD 440-476762/7	Lab Control Sample Dup	98	104	106
MB 440-476451/3	Method Blank	99	101	107
MB 440-476460/5	Method Blank	105	104	114
MB 440-476762/5	Method Blank	104	106	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)
440-210891-B-1 MS	Matrix Spike	99	99	108
440-210891-B-1 MSD	Matrix Spike Duplicate	99	96	108
440-211213-6	EB-51219-C	101	100	109
LCS 440-477018/4	Lab Control Sample	98	96	107
MB 440-477018/3	Method Blank	98	96	113

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-211213-1	AOC4-SV12-5	69
440-211213-1 MS	AOC4-SV12-5	79
440-211213-1 MSD	AOC4-SV12-5	83
440-211213-2	AOC4-SV12-15	83

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-211213-3	AOC4-SV13-5	95
440-211213-3 MS	AOC4-SV13-5	105
440-211213-3 MSD	AOC4-SV13-5	102
440-211213-4	AOC4-SV13-15	67
440-211213-5	AOC4-SV13-15DUP	84
440-211213-8	AOC4-SV11-5	81
440-211213-9	AOC4-SV11-15	75
LCS 440-476917/25	Lab Control Sample	106
LCS 440-477126/4	Lab Control Sample	100
LCSD 440-476917/36	Lab Control Sample Dup	107
LCSD 440-477126/5	Lab Control Sample Dup	96
MB 440-476917/35	Method Blank	88
MB 440-477126/6	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-210928-F-4 MS	Matrix Spike	149 X
440-210928-F-4 MSD	Matrix Spike Duplicate	146 X
440-211213-6	EB-51219-C	82
LCS 440-476869/32	Lab Control Sample	105
MB 440-476869/33	Method Blank	86

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-211213-1	AOC4-SV12-5	71
440-211213-1 MS	AOC4-SV12-5	80
440-211213-1 MSD	AOC4-SV12-5	82
440-211213-2	AOC4-SV12-15	76
440-211213-3	AOC4-SV13-5	61
440-211213-4	AOC4-SV13-15	69
440-211213-5	AOC4-SV13-15DUP	71
440-211213-8	AOC4-SV11-5	71
440-211213-9	AOC4-SV11-15	66
LCS 440-476166/2-A	Lab Control Sample	82
MB 440-476166/1-A	Method Blank	89

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
440-211213-6	EB-51219-C	72
LCS 440-476183/2-A	Lab Control Sample	91
LCSD 440-476183/3-A	Lab Control Sample Dup	78
MB 440-476183/1-A	Method Blank	76

Surrogate Legend

OTCN = n-Octacosane

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (45-120)
440-211172-A-17-A MS	Matrix Spike	52
440-211172-A-17-B MSD	Matrix Spike Duplicate	49
440-211213-1	AOC4-SV12-5	59
440-211213-2	AOC4-SV12-15	48
440-211213-3	AOC4-SV13-5	95
440-211213-4	AOC4-SV13-15	86
440-211213-5	AOC4-SV13-15DUP	65
440-211213-8	AOC4-SV11-5	91
440-211213-9	AOC4-SV11-15	68
LCS 440-476384/2-A	Lab Control Sample	91
MB 440-476384/1-A	Method Blank	87

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	DCB2 (26-115)
440-211213-6	EB-51219-C	101
LCS 440-476777/2-A	Lab Control Sample	106
LCSD 440-476777/3-A	Lab Control Sample Dup	101
MB 440-476777/1-A	Method Blank	107

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC4-SV12-5

Lab Sample ID: 440-211213-1

Date Collected: 05/12/18 07:59

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.21 g	10 mL	476844	05/17/18 09:39	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476762	05/17/18 13:03	HR	TAL IRV
Total/NA	Analysis	8015B		1	5.07 g	10 mL	476917	05/17/18 22:10	IM	TAL IRV
Total/NA	Prep	3546			15.20 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 13:20	LMB	TAL IRV
Total/NA	Prep	3546			15.23 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			476840	05/17/18 17:09	D1D	TAL IRV

Client Sample ID: AOC4-SV12-15

Lab Sample ID: 440-211213-2

Date Collected: 05/12/18 08:15

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.37 g	10 mL	476499	05/16/18 09:31	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476460	05/16/18 17:48	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	476917	05/17/18 23:34	IM	TAL IRV
Total/NA	Prep	3546			15.05 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 14:25	LMB	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			476840	05/17/18 17:23	D1D	TAL IRV

Client Sample ID: AOC4-SV13-5

Lab Sample ID: 440-211213-3

Date Collected: 05/12/18 09:10

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7 g	10 mL	476844	05/17/18 09:39	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476762	05/17/18 13:31	HR	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	477126	05/18/18 11:48	KGL	TAL IRV
Total/NA	Prep	3546			15.38 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 14:47	LMB	TAL IRV
Total/NA	Prep	3546			15.32 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			477166	05/18/18 19:35	D1D	TAL IRV

Client Sample ID: AOC4-SV13-15

Lab Sample ID: 440-211213-4

Date Collected: 05/12/18 10:15

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.8 g	10 mL	476844	05/17/18 09:39	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476762	05/17/18 13:58	HR	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	476917	05/18/18 00:29	IM	TAL IRV

Client Sample ID: AOC4-SV13-15

Lab Sample ID: 440-211213-4

Date Collected: 05/12/18 10:15

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.09 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 15:08	LMB	TAL IRV
Total/NA	Prep	3546			15.20 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			477166	05/18/18 19:51	D1D	TAL IRV

Client Sample ID: AOC4-SV13-15DUP

Lab Sample ID: 440-211213-5

Date Collected: 05/12/18 10:20

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			7.14 g	10 mL	476499	05/16/18 09:31	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476451	05/16/18 18:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.08 g	10 mL	477126	05/18/18 13:12	KGL	TAL IRV
Total/NA	Prep	3546			15.36 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 15:30	LMB	TAL IRV
Total/NA	Prep	3546			15.47 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			477166	05/18/18 20:06	D1D	TAL IRV

Client Sample ID: EB-51219-C

Lab Sample ID: 440-211213-6

Date Collected: 05/12/18 10:45

Matrix: Water

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	477018	05/18/18 04:37	OH1	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	476869	05/18/18 07:34	KGL	TAL IRV
Total/NA	Prep	3510C			240 mL	1 mL	476183	05/15/18 08:36	L1H	TAL IRV
Total/NA	Analysis	8015B		1			476494	05/16/18 12:31	LMB	TAL IRV
Total/NA	Prep	3510C			215 mL	2 mL	476777	05/17/18 06:50	L1H	TAL IRV
Total/NA	Analysis	8082		1			477820	05/22/18 13:15	JM	TAL IRV

Client Sample ID: AOC4-SV11-5

Lab Sample ID: 440-211213-8

Date Collected: 05/12/18 11:04

Matrix: Solid

Date Received: 05/12/18 14:10

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.16 g	10 mL	476499	05/16/18 09:31	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476451	05/16/18 18:30	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.03 g	10 mL	477126	05/18/18 13:40	KGL	TAL IRV
Total/NA	Prep	3546			15.38 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 15:53	LMB	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			477166	05/18/18 20:22	D1D	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Client Sample ID: AOC4-SV11-15
Date Collected: 05/12/18 11:30
Date Received: 05/12/18 14:10

Lab Sample ID: 440-211213-9
Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.41 g	10 mL	476499	05/16/18 09:31	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	476451	05/16/18 18:56	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	476917	05/18/18 01:53	IM	TAL IRV
Total/NA	Prep	3546			15.43 g	1 mL	476166	05/15/18 06:51	L1A	TAL IRV
Total/NA	Analysis	8015B		1			476182	05/15/18 16:37	LMB	TAL IRV
Total/NA	Prep	3546			15.07 g	2 mL	476384	05/16/18 17:47	VA	TAL IRV
Total/NA	Analysis	8082		1			477166	05/18/18 20:37	D1D	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-476451/3
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Bromobenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Bromoform	ND		5.0	2.0	ug/Kg			05/16/18 08:11	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			05/16/18 08:11	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Chloroethane	ND		5.0	2.0	ug/Kg			05/16/18 08:11	1
Chloroform	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Chloromethane	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			05/16/18 08:11	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Dibromomethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			05/16/18 08:11	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Methylene Chloride	ND		20	5.0	ug/Kg			05/16/18 08:11	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			05/16/18 08:11	1
Naphthalene	ND		5.0	2.0	ug/Kg			05/16/18 08:11	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
o-Xylene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
Styrene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Toluene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-476451/3
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Trichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			05/16/18 08:11	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 08:11	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			05/16/18 08:11	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*79 - 120*		*05/16/18 08:11*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*		*05/16/18 08:11*	*1*
Toluene-d8 (Surr)	*107*		*79 - 123*		*05/16/18 08:11*	*1*

Lab Sample ID: LCS 440-476451/4
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.4		ug/Kg		101	65 - 120
Bromobenzene	50.0	49.0		ug/Kg		98	75 - 120
Bromochloromethane	50.0	50.4		ug/Kg		101	70 - 135
Bromodichloromethane	50.0	50.5		ug/Kg		101	70 - 135
Bromoform	50.0	50.0		ug/Kg		100	55 - 135
Bromomethane	50.0	43.9		ug/Kg		88	60 - 145
2-Butanone (MEK)	50.0	48.1		ug/Kg		96	40 - 145
Carbon tetrachloride	50.0	49.3		ug/Kg		99	65 - 140
Chlorobenzene	50.0	49.5		ug/Kg		99	75 - 120
Chloroethane	50.0	44.2		ug/Kg		88	60 - 140
Chloroform	50.0	51.3		ug/Kg		103	70 - 130
Chloromethane	50.0	39.5		ug/Kg		79	45 - 145
2-Chlorotoluene	50.0	48.2		ug/Kg		96	70 - 125
4-Chlorotoluene	50.0	49.3		ug/Kg		99	75 - 125
cis-1,2-Dichloroethene	50.0	50.6		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	75 - 125
Dibromochloromethane	50.0	51.1		ug/Kg		102	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	48.2		ug/Kg		96	50 - 135
1,2-Dibromoethane (EDB)	50.0	49.5		ug/Kg		99	70 - 130
Dibromomethane	50.0	52.3		ug/Kg		105	70 - 130
1,2-Dichlorobenzene	50.0	51.6		ug/Kg		103	75 - 120
1,3-Dichlorobenzene	50.0	50.3		ug/Kg		101	75 - 125
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	75 - 120
Dichlorodifluoromethane	50.0	32.0		ug/Kg		64	35 - 160
1,1-Dichloroethane	50.0	51.1		ug/Kg		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-476451/4
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	52.5		ug/Kg		105	60 - 140
1,1-Dichloroethene	50.0	45.7		ug/Kg		91	70 - 125
1,2-Dichloropropane	50.0	51.2		ug/Kg		102	70 - 130
1,3-Dichloropropane	50.0	50.7		ug/Kg		101	70 - 125
2,2-Dichloropropane	50.0	49.5		ug/Kg		99	60 - 145
1,1-Dichloropropene	50.0	51.0		ug/Kg		102	70 - 130
Ethylbenzene	50.0	49.6		ug/Kg		99	70 - 125
Hexachlorobutadiene	50.0	49.6		ug/Kg		99	60 - 135
Isopropylbenzene	50.0	48.6		ug/Kg		97	75 - 130
Methylene Chloride	50.0	44.2		ug/Kg		88	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	51.7		ug/Kg		103	60 - 140
m,p-Xylene	50.0	48.1		ug/Kg		96	70 - 125
Naphthalene	50.0	51.2		ug/Kg		102	55 - 135
n-Butylbenzene	50.0	49.5		ug/Kg		99	70 - 130
N-Propylbenzene	50.0	49.0		ug/Kg		98	70 - 130
o-Xylene	50.0	49.9		ug/Kg		100	70 - 125
p-Isopropyltoluene	50.0	49.3		ug/Kg		99	75 - 125
sec-Butylbenzene	50.0	48.0		ug/Kg		96	70 - 125
Styrene	50.0	49.3		ug/Kg		99	75 - 130
tert-Butylbenzene	50.0	48.3		ug/Kg		97	70 - 125
1,1,1,2-Tetrachloroethane	50.0	51.8		ug/Kg		104	70 - 130
1,1,2,2-Tetrachloroethane	50.0	49.9		ug/Kg		100	55 - 140
Tetrachloroethene	50.0	47.5		ug/Kg		95	70 - 125
Toluene	50.0	50.5		ug/Kg		101	70 - 125
trans-1,2-Dichloroethene	50.0	49.7		ug/Kg		99	70 - 125
trans-1,3-Dichloropropene	50.0	50.6		ug/Kg		101	70 - 135
1,2,3-Trichlorobenzene	50.0	52.1		ug/Kg		104	60 - 130
1,2,4-Trichlorobenzene	50.0	50.6		ug/Kg		101	70 - 135
1,1,1-Trichloroethane	50.0	49.9		ug/Kg		100	65 - 135
1,1,2-Trichloroethane	50.0	51.2		ug/Kg		102	65 - 135
Trichloroethene	50.0	49.0		ug/Kg		98	70 - 125
Trichlorofluoromethane	50.0	45.0		ug/Kg		90	60 - 145
1,2,3-Trichloropropane	50.0	47.0		ug/Kg		94	60 - 135
1,2,4-Trimethylbenzene	50.0	49.3		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	50.0	49.8		ug/Kg		100	70 - 125
Vinyl chloride	50.0	46.0		ug/Kg		92	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*79 - 120*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
Toluene-d8 (Surr)	*97*		*79 - 123*

Lab Sample ID: LCSD 440-476451/5
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	53.4		ug/Kg		107	65 - 120	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-476451/5
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	50.2		ug/Kg		100	75 - 120	2	20
Bromochloromethane	50.0	53.1		ug/Kg		106	70 - 135	5	20
Bromodichloromethane	50.0	53.9		ug/Kg		108	70 - 135	7	20
Bromoform	50.0	51.1		ug/Kg		102	55 - 135	2	25
Bromomethane	50.0	48.1		ug/Kg		96	60 - 145	9	20
2-Butanone (MEK)	50.0	54.1		ug/Kg		108	40 - 145	12	35
Carbon tetrachloride	50.0	50.5		ug/Kg		101	65 - 140	2	20
Chlorobenzene	50.0	50.0		ug/Kg		100	75 - 120	1	20
Chloroethane	50.0	47.1		ug/Kg		94	60 - 140	7	25
Chloroform	50.0	53.6		ug/Kg		107	70 - 130	4	20
Chloromethane	50.0	42.9		ug/Kg		86	45 - 145	8	25
2-Chlorotoluene	50.0	50.6		ug/Kg		101	70 - 125	5	20
4-Chlorotoluene	50.0	51.0		ug/Kg		102	75 - 125	3	20
cis-1,2-Dichloroethene	50.0	52.4		ug/Kg		105	70 - 125	3	20
cis-1,3-Dichloropropene	50.0	53.1		ug/Kg		106	75 - 125	1	20
Dibromochloromethane	50.0	52.1		ug/Kg		104	65 - 140	2	20
1,2-Dibromo-3-Chloropropane	50.0	51.6		ug/Kg		103	50 - 135	7	30
1,2-Dibromoethane (EDB)	50.0	51.4		ug/Kg		103	70 - 130	4	20
Dibromomethane	50.0	55.6		ug/Kg		111	70 - 130	6	20
1,2-Dichlorobenzene	50.0	53.7		ug/Kg		107	75 - 120	4	20
1,3-Dichlorobenzene	50.0	51.5		ug/Kg		103	75 - 125	2	20
1,4-Dichlorobenzene	50.0	52.7		ug/Kg		105	75 - 120	3	20
Dichlorodifluoromethane	50.0	39.6		ug/Kg		79	35 - 160	21	30
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	70 - 130	2	20
1,2-Dichloroethane	50.0	56.0		ug/Kg		112	60 - 140	6	20
1,1-Dichloroethene	50.0	48.5		ug/Kg		97	70 - 125	6	20
1,2-Dichloropropane	50.0	54.5		ug/Kg		109	70 - 130	6	20
1,3-Dichloropropane	50.0	52.5		ug/Kg		105	70 - 125	3	20
2,2-Dichloropropane	50.0	50.6		ug/Kg		101	60 - 145	2	20
1,1-Dichloropropene	50.0	53.5		ug/Kg		107	70 - 130	5	20
Ethylbenzene	50.0	50.8		ug/Kg		102	70 - 125	2	20
Hexachlorobutadiene	50.0	50.1		ug/Kg		100	60 - 135	1	20
Isopropylbenzene	50.0	49.7		ug/Kg		99	75 - 130	2	20
Methylene Chloride	50.0	47.0		ug/Kg		94	55 - 135	6	20
Methyl-t-Butyl Ether (MTBE)	50.0	55.0		ug/Kg		110	60 - 140	6	25
m,p-Xylene	50.0	48.8		ug/Kg		98	70 - 125	1	20
Naphthalene	50.0	54.0		ug/Kg		108	55 - 135	5	25
n-Butylbenzene	50.0	50.3		ug/Kg		101	70 - 130	2	20
N-Propylbenzene	50.0	51.1		ug/Kg		102	70 - 130	4	20
o-Xylene	50.0	50.4		ug/Kg		101	70 - 125	1	20
p-Isopropyltoluene	50.0	50.5		ug/Kg		101	75 - 125	2	20
sec-Butylbenzene	50.0	49.4		ug/Kg		99	70 - 125	3	20
Styrene	50.0	50.6		ug/Kg		101	75 - 130	3	20
tert-Butylbenzene	50.0	49.0		ug/Kg		98	70 - 125	2	20
1,1,1,2-Tetrachloroethane	50.0	53.4		ug/Kg		107	70 - 130	3	20
1,1,2,2-Tetrachloroethane	50.0	51.4		ug/Kg		103	55 - 140	3	30
Tetrachloroethene	50.0	48.0		ug/Kg		96	70 - 125	1	20
Toluene	50.0	51.8		ug/Kg		104	70 - 125	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-476451/5
Matrix: Solid
Analysis Batch: 476451

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	51.0		ug/Kg		102	70 - 125	2	20
trans-1,3-Dichloropropene			50.0	52.0		ug/Kg		104	70 - 135	3	20
1,2,3-Trichlorobenzene			50.0	54.2		ug/Kg		108	60 - 130	4	20
1,2,4-Trichlorobenzene			50.0	52.5		ug/Kg		105	70 - 135	4	20
1,1,1-Trichloroethane			50.0	51.7		ug/Kg		103	65 - 135	4	20
1,1,2-Trichloroethane			50.0	53.4		ug/Kg		107	65 - 135	4	20
Trichloroethene			50.0	51.1		ug/Kg		102	70 - 125	4	20
Trichlorofluoromethane			50.0	48.4		ug/Kg		97	60 - 145	7	25
1,2,3-Trichloropropane			50.0	49.3		ug/Kg		99	60 - 135	5	25
1,2,4-Trimethylbenzene			50.0	50.4		ug/Kg		101	70 - 125	2	20
1,3,5-Trimethylbenzene			50.0	51.2		ug/Kg		102	70 - 125	3	20
Vinyl chloride			50.0	50.0		ug/Kg		100	55 - 135	8	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: MB 440-476460/5
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Bromobenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Bromoform	ND		5.0	2.0	ug/Kg			05/16/18 09:06	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			05/16/18 09:06	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Chloroethane	ND		5.0	2.0	ug/Kg			05/16/18 09:06	1
Chloroform	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Chloromethane	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			05/16/18 09:06	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Dibromomethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			05/16/18 09:06	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-476460/5
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Methylene Chloride	ND		20	5.0	ug/Kg			05/16/18 09:06	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			05/16/18 09:06	1
Naphthalene	ND		5.0	2.0	ug/Kg			05/16/18 09:06	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
o-Xylene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
Styrene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Toluene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Trichloroethene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			05/16/18 09:06	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/16/18 09:06	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			05/16/18 09:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*		*05/16/18 09:06*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 120*		*05/16/18 09:06*	*1*
Toluene-d8 (Surr)	*114*		*79 - 123*		*05/16/18 09:06*	*1*

Lab Sample ID: LCS 440-476460/6
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	51.5		ug/Kg		103	65 - 120
Bromobenzene	50.0	50.0		ug/Kg		100	75 - 120

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-476460/6
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromochloromethane	50.0	52.5		ug/Kg		105	70 - 135
Bromodichloromethane	50.0	57.1		ug/Kg		114	70 - 135
Bromoform	50.0	51.7		ug/Kg		103	55 - 135
Bromomethane	50.0	51.4		ug/Kg		103	60 - 145
2-Butanone (MEK)	50.0	58.8		ug/Kg		118	40 - 145
Carbon tetrachloride	50.0	57.6		ug/Kg		115	65 - 140
Chlorobenzene	50.0	45.7		ug/Kg		91	75 - 120
Chloroethane	50.0	53.0		ug/Kg		106	60 - 140
Chloroform	50.0	53.8		ug/Kg		108	70 - 130
Chloromethane	50.0	46.4		ug/Kg		93	45 - 145
2-Chlorotoluene	50.0	50.4		ug/Kg		101	70 - 125
4-Chlorotoluene	50.0	48.7		ug/Kg		97	75 - 125
cis-1,2-Dichloroethene	50.0	52.3		ug/Kg		105	70 - 125
cis-1,3-Dichloropropene	50.0	52.3		ug/Kg		105	75 - 125
Dibromochloromethane	50.0	52.4		ug/Kg		105	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	54.9		ug/Kg		110	50 - 135
1,2-Dibromoethane (EDB)	50.0	49.9		ug/Kg		100	70 - 130
Dibromomethane	50.0	54.6		ug/Kg		109	70 - 130
1,2-Dichlorobenzene	50.0	53.7		ug/Kg		107	75 - 120
1,3-Dichlorobenzene	50.0	50.0		ug/Kg		100	75 - 125
1,4-Dichlorobenzene	50.0	48.1		ug/Kg		96	75 - 120
Dichlorodifluoromethane	50.0	44.2		ug/Kg		88	35 - 160
1,1-Dichloroethane	50.0	56.1		ug/Kg		112	70 - 130
1,2-Dichloroethane	50.0	56.5		ug/Kg		113	60 - 140
1,1-Dichloroethene	50.0	57.7		ug/Kg		115	70 - 125
1,2-Dichloropropane	50.0	52.0		ug/Kg		104	70 - 130
1,3-Dichloropropane	50.0	50.7		ug/Kg		101	70 - 125
2,2-Dichloropropane	50.0	49.9		ug/Kg		100	60 - 145
1,1-Dichloropropene	50.0	55.4		ug/Kg		111	70 - 130
Ethylbenzene	50.0	44.5		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	57.7		ug/Kg		115	60 - 135
Isopropylbenzene	50.0	47.1		ug/Kg		94	75 - 130
Methylene Chloride	50.0	49.9		ug/Kg		100	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	55.6		ug/Kg		111	60 - 140
m,p-Xylene	50.0	46.8		ug/Kg		94	70 - 125
Naphthalene	50.0	56.5		ug/Kg		113	55 - 135
n-Butylbenzene	50.0	49.7		ug/Kg		99	70 - 130
N-Propylbenzene	50.0	51.4		ug/Kg		103	70 - 130
o-Xylene	50.0	46.4		ug/Kg		93	70 - 125
p-Isopropyltoluene	50.0	49.9		ug/Kg		100	75 - 125
sec-Butylbenzene	50.0	50.0		ug/Kg		100	70 - 125
Styrene	50.0	48.7		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	51.8		ug/Kg		104	70 - 125
1,1,1,2-Tetrachloroethane	50.0	50.9		ug/Kg		102	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.8		ug/Kg		110	55 - 140
Tetrachloroethene	50.0	49.6		ug/Kg		99	70 - 125
Toluene	50.0	47.2		ug/Kg		94	70 - 125
trans-1,2-Dichloroethene	50.0	55.5		ug/Kg		111	70 - 125

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-476460/6
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,3-Dichloropropene	50.0	52.4		ug/Kg		105	70 - 135
1,2,3-Trichlorobenzene	50.0	53.5		ug/Kg		107	60 - 130
1,2,4-Trichlorobenzene	50.0	55.4		ug/Kg		111	70 - 135
1,1,1-Trichloroethane	50.0	56.0		ug/Kg		112	65 - 135
1,1,2-Trichloroethane	50.0	53.2		ug/Kg		106	65 - 135
Trichloroethene	50.0	52.7		ug/Kg		105	70 - 125
Trichlorofluoromethane	50.0	54.3		ug/Kg		109	60 - 145
1,2,3-Trichloropropane	50.0	57.0		ug/Kg		114	60 - 135
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	50.0	50.2		ug/Kg		100	70 - 125
Vinyl chloride	50.0	52.8		ug/Kg		106	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*79 - 120*
Dibromofluoromethane (Surr)	*106*		*60 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 440-211119-C-1 MS
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		234	202		ug/Kg		86	65 - 130
Bromobenzene	ND		234	218		ug/Kg		93	65 - 140
Bromochloromethane	ND		234	203		ug/Kg		87	65 - 145
Bromodichloromethane	ND		234	220		ug/Kg		94	65 - 145
Bromoform	ND		234	223		ug/Kg		95	50 - 145
Bromomethane	ND		234	205		ug/Kg		88	60 - 155
2-Butanone (MEK)	ND		234	233		ug/Kg		100	25 - 170
Carbon tetrachloride	ND		234	248		ug/Kg		106	60 - 145
Chlorobenzene	ND		234	206		ug/Kg		88	70 - 130
Chloroethane	ND		234	218		ug/Kg		93	60 - 150
Chloroform	ND		234	224		ug/Kg		96	65 - 135
Chloromethane	ND		234	185		ug/Kg		79	40 - 145
2-Chlorotoluene	ND		234	217		ug/Kg		93	60 - 135
4-Chlorotoluene	ND		234	206		ug/Kg		88	65 - 135
cis-1,2-Dichloroethene	ND		234	209		ug/Kg		89	65 - 135
cis-1,3-Dichloropropene	ND		234	217		ug/Kg		93	70 - 135
Dibromochloromethane	ND		234	219		ug/Kg		94	60 - 145
1,2-Dibromo-3-Chloropropane	ND		234	246		ug/Kg		105	40 - 150
1,2-Dibromoethane (EDB)	ND		234	221		ug/Kg		94	65 - 140
Dibromomethane	ND		234	228		ug/Kg		98	65 - 140
1,2-Dichlorobenzene	ND		234	224		ug/Kg		96	70 - 130
1,3-Dichlorobenzene	ND		234	211		ug/Kg		90	70 - 130
1,4-Dichlorobenzene	ND		234	197		ug/Kg		84	70 - 130
Dichlorodifluoromethane	ND		234	191		ug/Kg		82	30 - 160
1,1-Dichloroethane	ND		234	224		ug/Kg		96	65 - 135
1,2-Dichloroethane	ND		234	232		ug/Kg		99	60 - 150

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-211119-C-1 MS
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1-Dichloroethene	ND		234	231		ug/Kg		99	65 - 135
1,2-Dichloropropane	ND		234	209		ug/Kg		89	65 - 130
1,3-Dichloropropane	ND		234	211		ug/Kg		90	65 - 140
2,2-Dichloropropane	ND		234	231		ug/Kg		99	65 - 150
1,1-Dichloropropene	ND		234	242		ug/Kg		104	65 - 135
Ethylbenzene	ND		234	204		ug/Kg		87	70 - 135
Hexachlorobutadiene	ND		234	193		ug/Kg		82	50 - 145
Isopropylbenzene	ND		234	213		ug/Kg		91	70 - 145
Methylene Chloride	ND		234	192		ug/Kg		82	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		234	236		ug/Kg		101	55 - 155
m,p-Xylene	ND		234	203		ug/Kg		87	70 - 130
Naphthalene	ND		234	235		ug/Kg		100	40 - 150
n-Butylbenzene	ND		234	196		ug/Kg		84	55 - 145
N-Propylbenzene	ND		234	216		ug/Kg		92	65 - 140
o-Xylene	ND		234	201		ug/Kg		86	65 - 130
p-Isopropyltoluene	ND		234	210		ug/Kg		90	60 - 140
sec-Butylbenzene	ND		234	207		ug/Kg		89	60 - 135
Styrene	ND		234	214		ug/Kg		92	70 - 140
tert-Butylbenzene	ND		234	212		ug/Kg		91	60 - 140
1,1,1,2-Tetrachloroethane	ND		234	223		ug/Kg		95	65 - 145
1,1,2,2-Tetrachloroethane	ND		234	236		ug/Kg		101	40 - 160
Tetrachloroethene	ND		234	226		ug/Kg		97	65 - 135
Toluene	ND		234	209		ug/Kg		89	70 - 130
trans-1,2-Dichloroethene	ND		234	226		ug/Kg		97	70 - 135
trans-1,3-Dichloropropene	ND		234	224		ug/Kg		96	60 - 145
1,2,3-Trichlorobenzene	ND		234	221		ug/Kg		95	45 - 145
1,2,4-Trichlorobenzene	ND		234	220		ug/Kg		94	50 - 140
1,1,1-Trichloroethane	ND		234	233		ug/Kg		100	65 - 145
1,1,2-Trichloroethane	ND		234	216		ug/Kg		92	65 - 140
Trichloroethene	ND		234	229		ug/Kg		98	65 - 140
Trichlorofluoromethane	ND		234	240		ug/Kg		103	55 - 155
1,2,3-Trichloropropane	ND		234	248		ug/Kg		106	50 - 150
1,2,4-Trimethylbenzene	ND		234	215		ug/Kg		92	65 - 140
1,3,5-Trimethylbenzene	ND		234	215		ug/Kg		92	65 - 135
Vinyl chloride	ND		234	221		ug/Kg		95	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*79 - 120*
Dibromofluoromethane (Surr)	*103*		*60 - 120*
Toluene-d8 (Surr)	*98*		*79 - 123*

Lab Sample ID: 440-211119-C-1 MSD
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		234	231		ug/Kg		99	65 - 130	13	20
Bromobenzene	ND		234	242		ug/Kg		104	65 - 140	10	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-211119-C-1 MSD
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromochloromethane	ND		234	237		ug/Kg		102	65 - 145	16	25
Bromodichloromethane	ND		234	249		ug/Kg		106	65 - 145	12	20
Bromoform	ND		234	262		ug/Kg		112	50 - 145	16	30
Bromomethane	ND		234	233		ug/Kg		100	60 - 155	13	25
2-Butanone (MEK)	ND		234	252		ug/Kg		108	25 - 170	8	40
Carbon tetrachloride	ND		234	263		ug/Kg		113	60 - 145	6	25
Chlorobenzene	ND		234	231		ug/Kg		99	70 - 130	11	25
Chloroethane	ND		234	251		ug/Kg		108	60 - 150	14	25
Chloroform	ND		234	261		ug/Kg		112	65 - 135	15	20
Chloromethane	ND		234	208		ug/Kg		89	40 - 145	12	25
2-Chlorotoluene	ND		234	244		ug/Kg		104	60 - 135	12	25
4-Chlorotoluene	ND		234	237		ug/Kg		101	65 - 135	14	25
cis-1,2-Dichloroethene	ND		234	234		ug/Kg		100	65 - 135	11	25
cis-1,3-Dichloropropene	ND		234	246		ug/Kg		105	70 - 135	13	25
Dibromochloromethane	ND		234	251		ug/Kg		107	60 - 145	14	25
1,2-Dibromo-3-Chloropropane	ND		234	292		ug/Kg		125	40 - 150	17	30
1,2-Dibromoethane (EDB)	ND		234	255		ug/Kg		109	65 - 140	15	25
Dibromomethane	ND		234	240		ug/Kg		103	65 - 140	5	25
1,2-Dichlorobenzene	ND		234	252		ug/Kg		108	70 - 130	12	25
1,3-Dichlorobenzene	ND		234	239		ug/Kg		102	70 - 130	13	25
1,4-Dichlorobenzene	ND		234	225		ug/Kg		96	70 - 130	13	25
Dichlorodifluoromethane	ND		234	217		ug/Kg		93	30 - 160	12	35
1,1-Dichloroethane	ND		234	246		ug/Kg		105	65 - 135	9	25
1,2-Dichloroethane	ND		234	260		ug/Kg		111	60 - 150	11	25
1,1-Dichloroethene	ND		234	259		ug/Kg		111	65 - 135	11	25
1,2-Dichloropropane	ND		234	237		ug/Kg		101	65 - 130	12	20
1,3-Dichloropropane	ND		234	240		ug/Kg		103	65 - 140	13	25
2,2-Dichloropropane	ND		234	255		ug/Kg		109	65 - 150	10	25
1,1-Dichloropropene	ND		234	258		ug/Kg		110	65 - 135	6	20
Ethylbenzene	ND		234	225		ug/Kg		96	70 - 135	10	25
Hexachlorobutadiene	ND		234	183		ug/Kg		78	50 - 145	5	35
Isopropylbenzene	ND		234	245		ug/Kg		105	70 - 145	14	25
Methylene Chloride	ND		234	213		ug/Kg		91	55 - 145	10	25
Methyl-t-Butyl Ether (MTBE)	ND		234	247		ug/Kg		106	55 - 155	5	35
m,p-Xylene	ND		234	233		ug/Kg		100	70 - 130	14	25
Naphthalene	ND		234	264		ug/Kg		113	40 - 150	12	40
n-Butylbenzene	ND		234	228		ug/Kg		97	55 - 145	15	30
N-Propylbenzene	ND		234	243		ug/Kg		104	65 - 140	12	25
o-Xylene	ND		234	228		ug/Kg		98	65 - 130	13	25
p-Isopropyltoluene	ND		234	234		ug/Kg		100	60 - 140	11	25
sec-Butylbenzene	ND		234	244		ug/Kg		104	60 - 135	16	25
Styrene	ND		234	250		ug/Kg		107	70 - 140	15	25
tert-Butylbenzene	ND		234	237		ug/Kg		102	60 - 140	11	25
1,1,1,2-Tetrachloroethane	ND		234	240		ug/Kg		103	65 - 145	7	20
1,1,2,2-Tetrachloroethane	ND		234	261		ug/Kg		112	40 - 160	10	30
Tetrachloroethene	ND		234	250		ug/Kg		107	65 - 135	10	25
Toluene	ND		234	224		ug/Kg		96	70 - 130	7	20
trans-1,2-Dichloroethene	ND		234	247		ug/Kg		106	70 - 135	9	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-211119-C-1 MSD
Matrix: Solid
Analysis Batch: 476460

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,3-Dichloropropene	ND		234	250		ug/Kg		107	60 - 145	11	25
1,2,3-Trichlorobenzene	ND		234	244		ug/Kg		104	45 - 145	10	30
1,2,4-Trichlorobenzene	ND		234	233		ug/Kg		100	50 - 140	6	30
1,1,1-Trichloroethane	ND		234	272		ug/Kg		116	65 - 145	15	20
1,1,2-Trichloroethane	ND		234	258		ug/Kg		110	65 - 140	18	30
Trichloroethene	ND		234	250		ug/Kg		107	65 - 140	9	25
Trichlorofluoromethane	ND		234	250		ug/Kg		107	55 - 155	4	25
1,2,3-Trichloropropane	ND		234	278		ug/Kg		119	50 - 150	11	30
1,2,4-Trimethylbenzene	ND		234	237		ug/Kg		101	65 - 140	9	25
1,3,5-Trimethylbenzene	ND		234	241		ug/Kg		103	65 - 135	12	25
Vinyl chloride	ND		234	254		ug/Kg		109	55 - 140	14	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*
Dibromofluoromethane (Surr)	*105*		*60 - 120*
Toluene-d8 (Surr)	*105*		*79 - 123*

Lab Sample ID: MB 440-476762/5
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Bromobenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Bromoform	ND		5.0	2.0	ug/Kg			05/17/18 08:36	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			05/17/18 08:36	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Chloroethane	ND		5.0	2.0	ug/Kg			05/17/18 08:36	1
Chloroform	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Chloromethane	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			05/17/18 08:36	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Dibromomethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			05/17/18 08:36	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-476762/5
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Methylene Chloride	ND		20	5.0	ug/Kg			05/17/18 08:36	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			05/17/18 08:36	1
Naphthalene	ND		5.0	2.0	ug/Kg			05/17/18 08:36	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
o-Xylene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
Styrene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Toluene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Trichloroethene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			05/17/18 08:36	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			05/17/18 08:36	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			05/17/18 08:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*79 - 120*		*05/17/18 08:36*	*1*
Dibromofluoromethane (Surr)	*106*		*60 - 120*		*05/17/18 08:36*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*		*05/17/18 08:36*	*1*

Lab Sample ID: LCS 440-476762/6
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	49.2		ug/Kg		98	65 - 120
Bromobenzene	50.0	52.2		ug/Kg		104	75 - 120
Bromochloromethane	50.0	50.1		ug/Kg		100	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-476762/6
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	50.0	52.8		ug/Kg		106	70 - 135
Bromoform	50.0	53.7		ug/Kg		107	55 - 135
Bromomethane	50.0	48.9		ug/Kg		98	60 - 145
2-Butanone (MEK)	50.0	54.2		ug/Kg		108	40 - 145
Carbon tetrachloride	50.0	56.8		ug/Kg		114	65 - 140
Chlorobenzene	50.0	51.3		ug/Kg		103	75 - 120
Chloroethane	50.0	50.3		ug/Kg		101	60 - 140
Chloroform	50.0	52.4		ug/Kg		105	70 - 130
Chloromethane	50.0	39.4		ug/Kg		79	45 - 145
2-Chlorotoluene	50.0	52.9		ug/Kg		106	70 - 125
4-Chlorotoluene	50.0	50.3		ug/Kg		101	75 - 125
cis-1,2-Dichloroethene	50.0	50.4		ug/Kg		101	70 - 125
cis-1,3-Dichloropropene	50.0	51.6		ug/Kg		103	75 - 125
Dibromochloromethane	50.0	51.5		ug/Kg		103	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	59.4		ug/Kg		119	50 - 135
1,2-Dibromoethane (EDB)	50.0	52.0		ug/Kg		104	70 - 130
Dibromomethane	50.0	51.0		ug/Kg		102	70 - 130
1,2-Dichlorobenzene	50.0	56.3		ug/Kg		113	75 - 120
1,3-Dichlorobenzene	50.0	54.7		ug/Kg		109	75 - 125
1,4-Dichlorobenzene	50.0	51.0		ug/Kg		102	75 - 120
Dichlorodifluoromethane	50.0	40.5		ug/Kg		81	35 - 160
1,1-Dichloroethane	50.0	51.0		ug/Kg		102	70 - 130
1,2-Dichloroethane	50.0	52.8		ug/Kg		106	60 - 140
1,1-Dichloroethene	50.0	53.0		ug/Kg		106	70 - 125
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 130
1,3-Dichloropropane	50.0	47.4		ug/Kg		95	70 - 125
2,2-Dichloropropane	50.0	51.8		ug/Kg		104	60 - 145
1,1-Dichloropropene	50.0	54.6		ug/Kg		109	70 - 130
Ethylbenzene	50.0	47.2		ug/Kg		94	70 - 125
Hexachlorobutadiene	50.0	60.8		ug/Kg		122	60 - 135
Isopropylbenzene	50.0	50.8		ug/Kg		102	75 - 130
Methylene Chloride	50.0	47.3		ug/Kg		95	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	51.0		ug/Kg		102	60 - 140
m,p-Xylene	50.0	51.2		ug/Kg		102	70 - 125
Naphthalene	50.0	56.8		ug/Kg		114	55 - 135
n-Butylbenzene	50.0	54.2		ug/Kg		108	70 - 130
N-Propylbenzene	50.0	53.5		ug/Kg		107	70 - 130
o-Xylene	50.0	47.8		ug/Kg		96	70 - 125
p-Isopropyltoluene	50.0	53.2		ug/Kg		106	75 - 125
sec-Butylbenzene	50.0	52.9		ug/Kg		106	70 - 125
Styrene	50.0	50.6		ug/Kg		101	75 - 130
tert-Butylbenzene	50.0	53.9		ug/Kg		108	70 - 125
1,1,1,2-Tetrachloroethane	50.0	54.1		ug/Kg		108	70 - 130
1,1,2,2-Tetrachloroethane	50.0	54.6		ug/Kg		109	55 - 140
Tetrachloroethene	50.0	52.2		ug/Kg		104	70 - 125
Toluene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	53.2		ug/Kg		106	70 - 125
trans-1,3-Dichloropropene	50.0	52.7		ug/Kg		105	70 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-476762/6
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	50.0	57.9		ug/Kg		116	60 - 130
1,2,4-Trichlorobenzene	50.0	57.8		ug/Kg		116	70 - 135
1,1,1-Trichloroethane	50.0	54.0		ug/Kg		108	65 - 135
1,1,2-Trichloroethane	50.0	47.4		ug/Kg		95	65 - 135
Trichloroethene	50.0	54.7		ug/Kg		109	70 - 125
Trichlorofluoromethane	50.0	52.0		ug/Kg		104	60 - 145
1,2,3-Trichloropropane	50.0	57.9		ug/Kg		116	60 - 135
1,2,4-Trimethylbenzene	50.0	54.3		ug/Kg		109	70 - 125
1,3,5-Trimethylbenzene	50.0	52.4		ug/Kg		105	70 - 125
Vinyl chloride	50.0	48.1		ug/Kg		96	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
Toluene-d8 (Surr)	*99*		*79 - 123*

Lab Sample ID: LCSD 440-476762/7
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	49.2		ug/Kg		98	65 - 120	0	20
Bromobenzene	50.0	49.8		ug/Kg		100	75 - 120	5	20
Bromochloromethane	50.0	49.9		ug/Kg		100	70 - 135	0	20
Bromodichloromethane	50.0	52.8		ug/Kg		106	70 - 135	0	20
Bromoform	50.0	54.4		ug/Kg		109	55 - 135	1	25
Bromomethane	50.0	49.3		ug/Kg		99	60 - 145	1	20
2-Butanone (MEK)	50.0	55.4		ug/Kg		111	40 - 145	2	35
Carbon tetrachloride	50.0	58.7		ug/Kg		117	65 - 140	3	20
Chlorobenzene	50.0	48.8		ug/Kg		98	75 - 120	5	20
Chloroethane	50.0	50.8		ug/Kg		102	60 - 140	1	25
Chloroform	50.0	53.6		ug/Kg		107	70 - 130	2	20
Chloromethane	50.0	45.0		ug/Kg		90	45 - 145	13	25
2-Chlorotoluene	50.0	51.0		ug/Kg		102	70 - 125	4	20
4-Chlorotoluene	50.0	48.6		ug/Kg		97	75 - 125	3	20
cis-1,2-Dichloroethene	50.0	50.2		ug/Kg		100	70 - 125	0	20
cis-1,3-Dichloropropene	50.0	51.8		ug/Kg		104	75 - 125	0	20
Dibromochloromethane	50.0	52.2		ug/Kg		104	65 - 140	1	20
1,2-Dibromo-3-Chloropropane	50.0	55.6		ug/Kg		111	50 - 135	7	30
1,2-Dibromoethane (EDB)	50.0	53.1		ug/Kg		106	70 - 130	2	20
Dibromomethane	50.0	50.6		ug/Kg		101	70 - 130	1	20
1,2-Dichlorobenzene	50.0	55.8		ug/Kg		112	75 - 120	1	20
1,3-Dichlorobenzene	50.0	49.4		ug/Kg		99	75 - 125	10	20
1,4-Dichlorobenzene	50.0	48.0		ug/Kg		96	75 - 120	6	20
Dichlorodifluoromethane	50.0	48.1		ug/Kg		96	35 - 160	17	30
1,1-Dichloroethane	50.0	52.1		ug/Kg		104	70 - 130	2	20
1,2-Dichloroethane	50.0	52.3		ug/Kg		105	60 - 140	1	20
1,1-Dichloroethene	50.0	56.4		ug/Kg		113	70 - 125	6	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-476762/7
Matrix: Solid
Analysis Batch: 476762

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	50.0	48.7		ug/Kg		97	70 - 130	0	20
1,3-Dichloropropane	50.0	51.6		ug/Kg		103	70 - 125	9	20
2,2-Dichloropropane	50.0	56.2		ug/Kg		112	60 - 145	8	20
1,1-Dichloropropene	50.0	56.7		ug/Kg		113	70 - 130	4	20
Ethylbenzene	50.0	49.9		ug/Kg		100	70 - 125	6	20
Hexachlorobutadiene	50.0	61.5		ug/Kg		123	60 - 135	1	20
Isopropylbenzene	50.0	50.6		ug/Kg		101	75 - 130	0	20
Methylene Chloride	50.0	46.5		ug/Kg		93	55 - 135	2	20
Methyl-t-Butyl Ether (MTBE)	50.0	52.0		ug/Kg		104	60 - 140	2	25
m,p-Xylene	50.0	49.4		ug/Kg		99	70 - 125	4	20
Naphthalene	50.0	53.6		ug/Kg		107	55 - 135	6	25
n-Butylbenzene	50.0	56.1		ug/Kg		112	70 - 130	3	20
N-Propylbenzene	50.0	52.9		ug/Kg		106	70 - 130	1	20
o-Xylene	50.0	46.5		ug/Kg		93	70 - 125	3	20
p-Isopropyltoluene	50.0	52.7		ug/Kg		105	75 - 125	1	20
sec-Butylbenzene	50.0	54.5		ug/Kg		109	70 - 125	3	20
Styrene	50.0	51.3		ug/Kg		103	75 - 130	1	20
tert-Butylbenzene	50.0	53.1		ug/Kg		106	70 - 125	2	20
1,1,1,2-Tetrachloroethane	50.0	54.0		ug/Kg		108	70 - 130	0	20
1,1,2,2-Tetrachloroethane	50.0	51.2		ug/Kg		102	55 - 140	6	30
Tetrachloroethene	50.0	55.6		ug/Kg		111	70 - 125	6	20
Toluene	50.0	49.7		ug/Kg		99	70 - 125	4	20
trans-1,2-Dichloroethene	50.0	56.2		ug/Kg		112	70 - 125	5	20
trans-1,3-Dichloropropene	50.0	52.5		ug/Kg		105	70 - 135	0	20
1,2,3-Trichlorobenzene	50.0	54.9		ug/Kg		110	60 - 130	5	20
1,2,4-Trichlorobenzene	50.0	53.6		ug/Kg		107	70 - 135	7	20
1,1,1-Trichloroethane	50.0	57.8		ug/Kg		116	65 - 135	7	20
1,1,2-Trichloroethane	50.0	51.3		ug/Kg		103	65 - 135	8	20
Trichloroethene	50.0	55.2		ug/Kg		110	70 - 125	1	20
Trichlorofluoromethane	50.0	56.5		ug/Kg		113	60 - 145	8	25
1,2,3-Trichloropropane	50.0	54.2		ug/Kg		108	60 - 135	7	25
1,2,4-Trimethylbenzene	50.0	51.3		ug/Kg		103	70 - 125	6	20
1,3,5-Trimethylbenzene	50.0	50.0		ug/Kg		100	70 - 125	5	20
Vinyl chloride	50.0	54.8		ug/Kg		110	55 - 135	13	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
Toluene-d8 (Surr)	*106*		*79 - 123*

Lab Sample ID: MB 440-477018/3
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Bromobenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Bromochloromethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-477018/3
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Bromoform	ND		1.0	0.40	ug/L			05/17/18 19:38	1
Bromomethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			05/17/18 19:38	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Chlorobenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Chloroethane	ND		1.0	0.40	ug/L			05/17/18 19:38	1
Chloroform	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Chloromethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Dibromochloromethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			05/17/18 19:38	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Dibromomethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			05/17/18 19:38	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			05/17/18 19:38	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Ethylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Isopropylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Methylene Chloride	ND		2.0	0.88	ug/L			05/17/18 19:38	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			05/17/18 19:38	1
m,p-Xylene	ND		1.0	0.50	ug/L			05/17/18 19:38	1
Naphthalene	ND		1.0	0.40	ug/L			05/17/18 19:38	1
n-Butylbenzene	ND		1.0	0.40	ug/L			05/17/18 19:38	1
N-Propylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
o-Xylene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Styrene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Tetrachloroethene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Toluene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			05/17/18 19:38	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-477018/3
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			05/17/18 19:38	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			05/17/18 19:38	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Trichloroethene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			05/17/18 19:38	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			05/17/18 19:38	1
Vinyl chloride	ND		0.50	0.25	ug/L			05/17/18 19:38	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*		*05/17/18 19:38*	*1*
Dibromofluoromethane (Surr)	*96*		*76 - 132*		*05/17/18 19:38*	*1*
Toluene-d8 (Surr)	*113*		*80 - 128*		*05/17/18 19:38*	*1*

Lab Sample ID: LCS 440-477018/4
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	24.4		ug/L		98	68 - 130
Bromobenzene	25.0	24.2		ug/L		97	70 - 130
Bromochloromethane	25.0	24.3		ug/L		97	70 - 130
Bromodichloromethane	25.0	23.1		ug/L		93	70 - 132
Bromoform	25.0	25.6		ug/L		102	60 - 148
Bromomethane	25.0	22.2		ug/L		89	64 - 139
2-Butanone (MEK)	25.0	28.8		ug/L		115	44 - 150
Carbon tetrachloride	25.0	24.9		ug/L		100	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	22.8		ug/L		91	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	19.1		ug/L		76	47 - 140
2-Chlorotoluene	25.0	25.3		ug/L		101	70 - 130
4-Chlorotoluene	25.0	24.7		ug/L		99	70 - 130
cis-1,2-Dichloroethene	25.0	24.6		ug/L		99	70 - 133
cis-1,3-Dichloropropene	25.0	26.3		ug/L		105	70 - 133
Dibromochloromethane	25.0	26.2		ug/L		105	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	24.5		ug/L		98	52 - 140
1,2-Dibromoethane (EDB)	25.0	25.9		ug/L		104	70 - 130
Dibromomethane	25.0	23.5		ug/L		94	70 - 130
1,2-Dichlorobenzene	25.0	24.6		ug/L		98	70 - 130
1,3-Dichlorobenzene	25.0	24.2		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	24.8		ug/L		99	70 - 130
Dichlorodifluoromethane	25.0	20.5		ug/L		82	29 - 150
1,1-Dichloroethane	25.0	24.9		ug/L		100	64 - 130
1,2-Dichloroethane	25.0	22.8		ug/L		91	57 - 138
1,1-Dichloroethene	25.0	25.5		ug/L		102	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-477018/4
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloropropane	25.0	25.3		ug/L		101	67 - 130
1,3-Dichloropropane	25.0	25.2		ug/L		101	70 - 130
2,2-Dichloropropane	25.0	27.6		ug/L		110	68 - 141
1,1-Dichloropropene	25.0	25.8		ug/L		103	70 - 130
Ethylbenzene	25.0	25.5		ug/L		102	70 - 130
Hexachlorobutadiene	25.0	25.6		ug/L		102	10 - 150
Isopropylbenzene	25.0	26.1		ug/L		105	70 - 136
Methylene Chloride	25.0	22.0		ug/L		88	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	25.7		ug/L		103	63 - 131
m,p-Xylene	25.0	25.8		ug/L		103	70 - 130
Naphthalene	25.0	27.0		ug/L		108	60 - 140
n-Butylbenzene	25.0	26.7		ug/L		107	65 - 150
N-Propylbenzene	25.0	26.7		ug/L		107	67 - 139
o-Xylene	25.0	25.3		ug/L		101	70 - 130
p-Isopropyltoluene	25.0	25.7		ug/L		103	70 - 132
sec-Butylbenzene	25.0	25.9		ug/L		104	70 - 138
Styrene	25.0	24.8		ug/L		99	70 - 134
tert-Butylbenzene	25.0	25.2		ug/L		101	70 - 130
1,1,1,2-Tetrachloroethane	25.0	26.3		ug/L		105	60 - 141
1,1,2,2-Tetrachloroethane	25.0	26.8		ug/L		107	63 - 130
Tetrachloroethene	25.0	26.9		ug/L		108	70 - 130
Toluene	25.0	26.0		ug/L		104	70 - 130
trans-1,2-Dichloroethene	25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	25.0	24.8		ug/L		99	70 - 132
1,2,3-Trichlorobenzene	25.0	25.1		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	25.0	26.1		ug/L		104	60 - 140
1,1,1-Trichloroethane	25.0	24.2		ug/L		97	70 - 130
1,1,2-Trichloroethane	25.0	26.4		ug/L		106	70 - 130
Trichloroethene	25.0	24.8		ug/L		99	70 - 130
Trichlorofluoromethane	25.0	23.7		ug/L		95	60 - 150
1,2,3-Trichloropropane	25.0	24.6		ug/L		99	63 - 130
1,2,4-Trimethylbenzene	25.0	24.7		ug/L		99	70 - 135
1,3,5-Trimethylbenzene	25.0	24.9		ug/L		100	70 - 136
Vinyl chloride	25.0	22.3		ug/L		89	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*107*		*80 - 128*

Lab Sample ID: 440-210891-B-1 MS
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	24.9		ug/L		100	66 - 130
Bromobenzene	ND		25.0	25.0		ug/L		100	70 - 130
Bromochloromethane	ND		25.0	25.3		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210891-B-1 MS
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromodichloromethane	ND		25.0	23.9		ug/L		96	70 - 138
Bromoform	ND		25.0	25.5		ug/L		102	59 - 150
Bromomethane	ND		25.0	22.4		ug/L		90	62 - 131
2-Butanone (MEK)	ND		25.0	24.2		ug/L		97	48 - 140
Carbon tetrachloride	ND		25.0	25.2		ug/L		101	60 - 150
Chlorobenzene	ND		25.0	25.5		ug/L		102	70 - 130
Chloroethane	ND		25.0	23.1		ug/L		92	68 - 130
Chloroform	ND		25.0	24.2		ug/L		97	70 - 130
Chloromethane	ND		25.0	19.3		ug/L		77	39 - 144
2-Chlorotoluene	ND		25.0	25.1		ug/L		100	70 - 130
4-Chlorotoluene	ND		25.0	25.0		ug/L		100	70 - 130
cis-1,2-Dichloroethene	ND		25.0	25.4		ug/L		102	70 - 130
cis-1,3-Dichloropropene	ND		25.0	26.7		ug/L		107	70 - 133
Dibromochloromethane	ND		25.0	26.4		ug/L		105	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	23.6		ug/L		94	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	25.5		ug/L		102	70 - 131
Dibromomethane	ND		25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		25.0	24.7		ug/L		99	70 - 130
1,4-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130
Dichlorodifluoromethane	ND		25.0	20.5		ug/L		82	25 - 142
1,1-Dichloroethane	ND		25.0	25.4		ug/L		102	65 - 130
1,2-Dichloroethane	ND		25.0	22.9		ug/L		92	56 - 146
1,1-Dichloroethene	ND		25.0	25.2		ug/L		101	70 - 130
1,2-Dichloropropane	ND		25.0	25.5		ug/L		102	69 - 130
1,3-Dichloropropane	ND		25.0	25.7		ug/L		103	70 - 130
2,2-Dichloropropane	ND		25.0	28.3		ug/L		113	69 - 138
1,1-Dichloropropene	ND		25.0	25.8		ug/L		103	64 - 130
Ethylbenzene	ND		25.0	25.9		ug/L		103	70 - 130
Hexachlorobutadiene	ND		25.0	25.1		ug/L		100	10 - 150
Isopropylbenzene	ND		25.0	25.7		ug/L		103	70 - 132
Methylene Chloride	ND		25.0	22.2		ug/L		89	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		25.0	26.4		ug/L		105	70 - 130
m,p-Xylene	ND		25.0	25.9		ug/L		104	70 - 133
Naphthalene	ND		25.0	26.5		ug/L		106	60 - 140
n-Butylbenzene	ND		25.0	27.1		ug/L		108	61 - 149
N-Propylbenzene	ND		25.0	26.6		ug/L		106	66 - 135
o-Xylene	ND		25.0	25.6		ug/L		102	70 - 133
p-Isopropyltoluene	ND		25.0	25.9		ug/L		104	70 - 130
sec-Butylbenzene	ND		25.0	26.1		ug/L		105	67 - 134
Styrene	ND		25.0	24.3		ug/L		97	29 - 150
tert-Butylbenzene	ND		25.0	25.9		ug/L		103	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.7		ug/L		107	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	26.4		ug/L		106	63 - 130
Tetrachloroethene	ND		25.0	26.9		ug/L		108	70 - 137
Toluene	ND		25.0	26.4		ug/L		106	70 - 130
trans-1,2-Dichloroethene	ND		25.0	26.7		ug/L		107	70 - 130
trans-1,3-Dichloropropene	ND		25.0	25.1		ug/L		100	70 - 138

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210891-B-1 MS
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2,3-Trichlorobenzene	ND		25.0	26.1		ug/L		104	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	26.1		ug/L		105	60 - 140
1,1,1-Trichloroethane	ND		25.0	24.4		ug/L		98	70 - 130
1,1,2-Trichloroethane	ND		25.0	26.2		ug/L		105	70 - 130
Trichloroethene	ND		25.0	24.7		ug/L		99	70 - 130
Trichlorofluoromethane	ND		25.0	24.1		ug/L		96	60 - 150
1,2,3-Trichloropropane	ND		25.0	23.7		ug/L		95	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	25.1		ug/L		100	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130
Vinyl chloride	ND		25.0	22.6		ug/L		90	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*108*		*80 - 128*

Lab Sample ID: 440-210891-B-1 MSD
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	24.4		ug/L		98	66 - 130	2	20
Bromobenzene	ND		25.0	24.9		ug/L		100	70 - 130	1	20
Bromochloromethane	ND		25.0	24.4		ug/L		98	70 - 130	4	25
Bromodichloromethane	ND		25.0	23.4		ug/L		93	70 - 138	2	20
Bromoform	ND		25.0	24.8		ug/L		99	59 - 150	3	25
Bromomethane	ND		25.0	22.0		ug/L		88	62 - 131	2	25
2-Butanone (MEK)	ND		25.0	24.6		ug/L		98	48 - 140	1	40
Carbon tetrachloride	ND		25.0	24.8		ug/L		99	60 - 150	1	25
Chlorobenzene	ND		25.0	25.6		ug/L		102	70 - 130	0	20
Chloroethane	ND		25.0	22.6		ug/L		90	68 - 130	2	25
Chloroform	ND		25.0	24.3		ug/L		97	70 - 130	1	20
Chloromethane	ND		25.0	18.9		ug/L		76	39 - 144	2	25
2-Chlorotoluene	ND		25.0	25.5		ug/L		102	70 - 130	2	20
4-Chlorotoluene	ND		25.0	24.9		ug/L		100	70 - 130	0	20
cis-1,2-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	1	20
cis-1,3-Dichloropropene	ND		25.0	26.3		ug/L		105	70 - 133	1	20
Dibromochloromethane	ND		25.0	26.5		ug/L		106	70 - 148	1	25
1,2-Dibromo-3-Chloropropane	ND		25.0	22.2		ug/L		89	48 - 140	6	30
1,2-Dibromoethane (EDB)	ND		25.0	25.2		ug/L		101	70 - 131	1	25
Dibromomethane	ND		25.0	23.2		ug/L		93	70 - 130	2	25
1,2-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130	0	20
1,3-Dichlorobenzene	ND		25.0	24.9		ug/L		100	70 - 130	1	20
1,4-Dichlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130	0	20
Dichlorodifluoromethane	ND		25.0	20.0		ug/L		80	25 - 142	2	30
1,1-Dichloroethane	ND		25.0	24.8		ug/L		99	65 - 130	2	20
1,2-Dichloroethane	ND		25.0	22.6		ug/L		91	56 - 146	1	20
1,1-Dichloroethene	ND		25.0	25.0		ug/L		100	70 - 130	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-210891-B-1 MSD
Matrix: Water
Analysis Batch: 477018

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloropropane	ND		25.0	25.8		ug/L		103	69 - 130	1	20
1,3-Dichloropropane	ND		25.0	25.1		ug/L		101	70 - 130	2	25
2,2-Dichloropropane	ND		25.0	27.5		ug/L		110	69 - 138	3	25
1,1-Dichloropropene	ND		25.0	25.4		ug/L		102	64 - 130	1	20
Ethylbenzene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
Hexachlorobutadiene	ND		25.0	25.5		ug/L		102	10 - 150	2	20
Isopropylbenzene	ND		25.0	26.0		ug/L		104	70 - 132	1	20
Methylene Chloride	ND		25.0	21.8		ug/L		87	52 - 130	2	20
Methyl-t-Butyl Ether (MTBE)	ND		25.0	25.6		ug/L		102	70 - 130	3	25
m,p-Xylene	ND		25.0	26.1		ug/L		104	70 - 133	1	25
Naphthalene	ND		25.0	25.7		ug/L		103	60 - 140	3	30
n-Butylbenzene	ND		25.0	27.1		ug/L		108	61 - 149	0	20
N-Propylbenzene	ND		25.0	26.6		ug/L		106	66 - 135	0	20
o-Xylene	ND		25.0	25.3		ug/L		101	70 - 133	1	20
p-Isopropyltoluene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
sec-Butylbenzene	ND		25.0	26.2		ug/L		105	67 - 134	0	20
Styrene	ND		25.0	24.0		ug/L		96	29 - 150	1	35
tert-Butylbenzene	ND		25.0	25.8		ug/L		103	70 - 130	0	20
1,1,1,2-Tetrachloroethane	ND		25.0	26.1		ug/L		105	60 - 149	2	20
1,1,2,2-Tetrachloroethane	ND		25.0	25.4		ug/L		101	63 - 130	4	30
Tetrachloroethene	ND		25.0	26.8		ug/L		107	70 - 137	0	20
Toluene	ND		25.0	26.5		ug/L		106	70 - 130	0	20
trans-1,2-Dichloroethene	ND		25.0	26.6		ug/L		106	70 - 130	0	20
trans-1,3-Dichloropropene	ND		25.0	24.6		ug/L		99	70 - 138	2	25
1,2,3-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140	3	20
1,2,4-Trichlorobenzene	ND		25.0	25.8		ug/L		103	60 - 140	1	20
1,1,1-Trichloroethane	ND		25.0	24.2		ug/L		97	70 - 130	1	20
1,1,2-Trichloroethane	ND		25.0	26.3		ug/L		105	70 - 130	0	25
Trichloroethene	ND		25.0	24.7		ug/L		99	70 - 130	0	20
Trichlorofluoromethane	ND		25.0	23.5		ug/L		94	60 - 150	2	25
1,2,3-Trichloropropane	ND		25.0	22.9		ug/L		92	60 - 130	3	30
1,2,4-Trimethylbenzene	ND		25.0	25.0		ug/L		100	70 - 130	0	25
1,3,5-Trimethylbenzene	ND		25.0	25.4		ug/L		102	70 - 130	0	20
Vinyl chloride	ND		25.0	22.0		ug/L		88	50 - 137	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*108*		*80 - 128*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-476869/33
Matrix: Water
Analysis Batch: 476869

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			05/17/18 23:26	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	86		65 - 140		05/17/18 23:26	1

Lab Sample ID: LCS 440-476869/32
Matrix: Water
Analysis Batch: 476869

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	794		ug/L		99	80 - 120		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	105		65 - 140

Lab Sample ID: 440-210928-F-4 MS
Matrix: Water
Analysis Batch: 476869

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	560		800	1300		ug/L		93	65 - 140		

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	149	X	65 - 140

Lab Sample ID: 440-210928-F-4 MSD
Matrix: Water
Analysis Batch: 476869

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	560		800	1270		ug/L		90	65 - 140	2	20

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	146	X	65 - 140

Lab Sample ID: MB 440-476917/35
Matrix: Solid
Analysis Batch: 476917

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/17/18 21:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	88		65 - 140		05/17/18 21:42	1

Lab Sample ID: LCS 440-476917/25
Matrix: Solid
Analysis Batch: 476917

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1560		ug/Kg		97	70 - 135		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	106		65 - 140

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-476917/36
Matrix: Solid
Analysis Batch: 476917

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1580		ug/Kg		99	70 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*

Lab Sample ID: 440-211213-1 MS
Matrix: Solid
Analysis Batch: 476917

Client Sample ID: AOC4-SV12-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1580	1230		ug/Kg		78	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*79*		*65 - 140*

Lab Sample ID: 440-211213-1 MSD
Matrix: Solid
Analysis Batch: 476917

Client Sample ID: AOC4-SV12-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1050		ug/Kg		67	60 - 140	15	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*83*		*65 - 140*

Lab Sample ID: MB 440-477126/6
Matrix: Solid
Analysis Batch: 477126

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			05/18/18 10:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*		*05/18/18 10:06*	*1*

Lab Sample ID: LCS 440-477126/4
Matrix: Solid
Analysis Batch: 477126

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1550		ug/Kg		97	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-477126/5
Matrix: Solid
Analysis Batch: 477126

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1560		ug/Kg		98	70 - 135	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*65 - 140*

Lab Sample ID: 440-211213-3 MS
Matrix: Solid
Analysis Batch: 477126

Client Sample ID: AOC4-SV13-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1600	1470		ug/Kg		92	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*65 - 140*

Lab Sample ID: 440-211213-3 MSD
Matrix: Solid
Analysis Batch: 477126

Client Sample ID: AOC4-SV13-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1600	1450		ug/Kg		91	60 - 140	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-476166/1-A
Matrix: Solid
Analysis Batch: 476182

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476166

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 12:37	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		05/15/18 06:51	05/15/18 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*05/15/18 06:51*	*05/15/18 12:37*	*1*

Lab Sample ID: LCS 440-476166/2-A
Matrix: Solid
Analysis Batch: 476182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476166

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.5	56.4		mg/Kg		85	45 - 115		

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCS 440-476166/2-A
Matrix: Solid
Analysis Batch: 476182

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476166

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	82		40 - 140

Lab Sample ID: 440-211213-1 MS
Matrix: Solid
Analysis Batch: 476182

Client Sample ID: AOC4-SV12-5
Prep Type: Total/NA
Prep Batch: 476166

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	ND		65.3	55.5		mg/Kg		85	40 - 120

Surrogate	MS %Recovery	MS Qualifier	Limits
n-Octacosane	80		40 - 140

Lab Sample ID: 440-211213-1 MSD
Matrix: Solid
Analysis Batch: 476182

Client Sample ID: AOC4-SV12-5
Prep Type: Total/NA
Prep Batch: 476166

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	ND		66.4	59.4		mg/Kg		89	40 - 120	7	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
n-Octacosane	82		40 - 140

Lab Sample ID: MB 440-476183/1-A
Matrix: Water
Analysis Batch: 476494

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476183

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		05/15/18 08:36	05/16/18 11:18	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		05/15/18 08:36	05/16/18 11:18	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	76		45 - 120	05/15/18 08:36	05/16/18 11:18	1

Lab Sample ID: LCS 440-476183/2-A
Matrix: Water
Analysis Batch: 476494

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476183

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	1.00	0.683		mg/L		68	40 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	91		45 - 120

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 440-476183/3-A — **Client Sample ID: Lab Control Sample Dup**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 476494 — **Prep Batch: 476183**

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.692		mg/L		69	40 - 115	1	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
n-Octacosane	*78*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-476384/1-A — **Client Sample ID: Method Blank**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 476840 — **Prep Batch: 476384**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1221	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1232	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1242	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1248	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1254	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1
Aroclor 1260	ND		50	17	ug/Kg		05/16/18 17:47	05/17/18 12:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*87*		*45 - 120*	*05/16/18 17:47*	*05/17/18 12:18*	*1*

Lab Sample ID: LCS 440-476384/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 476840 — **Prep Batch: 476384**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	245		ug/Kg		92	65 - 115
Aroclor 1260			267	242		ug/Kg		91	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*91*		*45 - 120*

Lab Sample ID: 440-211172-A-17-A MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 476840 — **Prep Batch: 476384**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		263	153		ug/Kg		58	50 - 120
Aroclor 1260	ND		263	179		ug/Kg		68	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-211172-A-17-B MSD
Matrix: Solid
Analysis Batch: 476840

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 476384

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		258	140		ug/Kg		54	50 - 120	9	30
Aroclor 1260	ND		258	169		ug/Kg		65	50 - 125	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*

Lab Sample ID: MB 440-476777/1-A
Matrix: Water
Analysis Batch: 477820

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 476777

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1221	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1232	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1242	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1248	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1254	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1
Aroclor 1260	ND		1.0	0.50	ug/L		05/17/18 06:50	05/22/18 12:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*107*		*26 - 115*	*05/17/18 06:50*	*05/22/18 12:36*	*1*

Lab Sample ID: LCS 440-476777/2-A
Matrix: Water
Analysis Batch: 477820

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 476777

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Aroclor 1016			4.00	3.86		ug/L		96	50 - 115		
Aroclor 1260			4.00	4.06		ug/L		102	53 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*106*		*26 - 115*

Lab Sample ID: LCSD 440-476777/3-A
Matrix: Water
Analysis Batch: 477820

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 476777

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.80		ug/L		95	50 - 115	2	22
Aroclor 1260			4.00	4.00		ug/L		100	53 - 120	2	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*101*		*26 - 115*

GC/MS VOA

Analysis Batch: 476451

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	8260B	476499
440-211213-8	AOC4-SV11-5	Total/NA	Solid	8260B	476499
440-211213-9	AOC4-SV11-15	Total/NA	Solid	8260B	476499
MB 440-476451/3	Method Blank	Total/NA	Solid	8260B	
LCS 440-476451/4	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-476451/5	Lab Control Sample Dup	Total/NA	Solid	8260B	

Analysis Batch: 476460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-2	AOC4-SV12-15	Total/NA	Solid	8260B	476499
MB 440-476460/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-476460/6	Lab Control Sample	Total/NA	Solid	8260B	
440-211119-C-1 MS	Matrix Spike	Total/NA	Solid	8260B	
440-211119-C-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Prep Batch: 476499

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-2	AOC4-SV12-15	Total/NA	Solid	5035	
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	5035	
440-211213-8	AOC4-SV11-5	Total/NA	Solid	5035	
440-211213-9	AOC4-SV11-15	Total/NA	Solid	5035	

Analysis Batch: 476762

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	8260B	476844
440-211213-3	AOC4-SV13-5	Total/NA	Solid	8260B	476844
440-211213-4	AOC4-SV13-15	Total/NA	Solid	8260B	476844
MB 440-476762/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-476762/6	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-476762/7	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 476844

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	5035	
440-211213-3	AOC4-SV13-5	Total/NA	Solid	5035	
440-211213-4	AOC4-SV13-15	Total/NA	Solid	5035	

Analysis Batch: 477018

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	8260B	
MB 440-477018/3	Method Blank	Total/NA	Water	8260B	
LCS 440-477018/4	Lab Control Sample	Total/NA	Water	8260B	
440-210891-B-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-210891-B-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 476869

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	8015B	

GC VOA (Continued)

Analysis Batch: 476869 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-476869/33	Method Blank	Total/NA	Water	8015B	
LCS 440-476869/32	Lab Control Sample	Total/NA	Water	8015B	
440-210928-F-4 MS	Matrix Spike	Total/NA	Water	8015B	
440-210928-F-4 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

Analysis Batch: 476917

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	8015B	
440-211213-2	AOC4-SV12-15	Total/NA	Solid	8015B	
440-211213-4	AOC4-SV13-15	Total/NA	Solid	8015B	
440-211213-9	AOC4-SV11-15	Total/NA	Solid	8015B	
MB 440-476917/35	Method Blank	Total/NA	Solid	8015B	
LCS 440-476917/25	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-476917/36	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-211213-1 MS	AOC4-SV12-5	Total/NA	Solid	8015B	
440-211213-1 MSD	AOC4-SV12-5	Total/NA	Solid	8015B	

Analysis Batch: 477126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-3	AOC4-SV13-5	Total/NA	Solid	8015B	
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	8015B	
440-211213-8	AOC4-SV11-5	Total/NA	Solid	8015B	
MB 440-477126/6	Method Blank	Total/NA	Solid	8015B	
LCS 440-477126/4	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-477126/5	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-211213-3 MS	AOC4-SV13-5	Total/NA	Solid	8015B	
440-211213-3 MSD	AOC4-SV13-5	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 476166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	3546	
440-211213-2	AOC4-SV12-15	Total/NA	Solid	3546	
440-211213-3	AOC4-SV13-5	Total/NA	Solid	3546	
440-211213-4	AOC4-SV13-15	Total/NA	Solid	3546	
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	3546	
440-211213-8	AOC4-SV11-5	Total/NA	Solid	3546	
440-211213-9	AOC4-SV11-15	Total/NA	Solid	3546	
MB 440-476166/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-476166/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-211213-1 MS	AOC4-SV12-5	Total/NA	Solid	3546	
440-211213-1 MSD	AOC4-SV12-5	Total/NA	Solid	3546	

Analysis Batch: 476182

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	8015B	476166
440-211213-2	AOC4-SV12-15	Total/NA	Solid	8015B	476166
440-211213-3	AOC4-SV13-5	Total/NA	Solid	8015B	476166
440-211213-4	AOC4-SV13-15	Total/NA	Solid	8015B	476166

GC Semi VOA (Continued)

Analysis Batch: 476182 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	8015B	476166
440-211213-8	AOC4-SV11-5	Total/NA	Solid	8015B	476166
440-211213-9	AOC4-SV11-15	Total/NA	Solid	8015B	476166
MB 440-476166/1-A	Method Blank	Total/NA	Solid	8015B	476166
LCS 440-476166/2-A	Lab Control Sample	Total/NA	Solid	8015B	476166
440-211213-1 MS	AOC4-SV12-5	Total/NA	Solid	8015B	476166
440-211213-1 MSD	AOC4-SV12-5	Total/NA	Solid	8015B	476166

Prep Batch: 476183

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	3510C	
MB 440-476183/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-476183/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-476183/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 476384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	3546	
440-211213-2	AOC4-SV12-15	Total/NA	Solid	3546	
440-211213-3	AOC4-SV13-5	Total/NA	Solid	3546	
440-211213-4	AOC4-SV13-15	Total/NA	Solid	3546	
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	3546	
440-211213-8	AOC4-SV11-5	Total/NA	Solid	3546	
440-211213-9	AOC4-SV11-15	Total/NA	Solid	3546	
MB 440-476384/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-476384/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-211172-A-17-A MS	Matrix Spike	Total/NA	Solid	3546	
440-211172-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 476494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	8015B	476183
MB 440-476183/1-A	Method Blank	Total/NA	Water	8015B	476183
LCS 440-476183/2-A	Lab Control Sample	Total/NA	Water	8015B	476183
LCSD 440-476183/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	476183

Prep Batch: 476777

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	3510C	
MB 440-476777/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-476777/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-476777/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 476840

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-1	AOC4-SV12-5	Total/NA	Solid	8082	476384
440-211213-2	AOC4-SV12-15	Total/NA	Solid	8082	476384
MB 440-476384/1-A	Method Blank	Total/NA	Solid	8082	476384
LCS 440-476384/2-A	Lab Control Sample	Total/NA	Solid	8082	476384
440-211172-A-17-A MS	Matrix Spike	Total/NA	Solid	8082	476384
440-211172-A-17-B MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	476384

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Analysis Batch: 477166

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-3	AOC4-SV13-5	Total/NA	Solid	8082	476384
440-211213-4	AOC4-SV13-15	Total/NA	Solid	8082	476384
440-211213-5	AOC4-SV13-15DUP	Total/NA	Solid	8082	476384
440-211213-8	AOC4-SV11-5	Total/NA	Solid	8082	476384
440-211213-9	AOC4-SV11-15	Total/NA	Solid	8082	476384

Analysis Batch: 477820

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-211213-6	EB-51219-C	Total/NA	Water	8082	476777
MB 440-476777/1-A	Method Blank	Total/NA	Water	8082	476777
LCS 440-476777/2-A	Lab Control Sample	Total/NA	Water	8082	476777
LCSD 440-476777/3-A	Lab Control Sample Dup	Total/NA	Water	8082	476777

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-211213-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene

Kim, Martin C.

From: King, Justin <Justin.King@parsons.com>
Sent: Monday, May 14, 2018 12:53 PM
To: Kim, Martin C.; Mata, Patty
Subject: RE: PLEASE READ: TestAmerica Sample Login Confirmation files from 440-211213 LAUSD Reseda H.S., CA

-External Email-

The sample ID for Sample #9 should be AOC4-SV11-15. Please do not analyze the DUP for lead. Thanks, Justin

From: Kim, Martin <martin.kim@testamericainc.com>
Sent: Monday, May 14, 2018 10:55 AM
To: King, Justin <Justin.King@parsons.com>; patty.mata@testamericainc.com
Subject: PLEASE READ: TestAmerica Sample Login Confirmation files from 440-211213 LAUSD Reseda H.S., CA

Hello,

Attached, please find the Sample Confirmation files for job 440-211213; LAUSD Reseda H.S., CA

Sample #9 - On the COC was listed AO4-SV11-15 and on the COC was listed AOC4-SAV11-15
Please confirm which is correct.

There is a mark for Lead Analysis on the COC for the DUP sample. It has not been logged in for Lead currently.
Please confirm whether or not it is supposed to be logged in for Lead.

Please feel free to contact me or your PM, Patty Mata, if you have any questions.

Thank you.

Please let us know if we met your expectations by rating the service you received from TestAmerica on this project by visiting our website at: Project Feedback[surveymonkey.com]

MARTIN C KIM
Project Manager Assistant

TestAmerica Irvine
THE LEADER IN ENVIRONMENTAL TESTING

Tel: 949.261,1022

Reference: [447387]
Attachments: 2

NOTICE: This email message and all attachments transmitted with it may contain privileged and confidential information, and information that is protected by, and proprietary to, Parsons Corporation, and is intended solely for the use of the addressee for the specific purpose set forth in this communication. If the reader of this message is not the intended recipient, you are hereby notified that any reading, dissemination, distribution, copying, or other use of this message or its attachments is strictly

prohibited, and you should delete this message and all copies and backups thereof. The recipient may not further distribute or use any of the information contained herein without the express written authorization of the sender. If you have received this message in error, or if you have any questions regarding the use of the proprietary information contained therein, please contact the sender of this message immediately, and the sender will provide you with further instructions.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact:	Date: 5-12-18	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___ Std X			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O # 450810	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	Arsenic	Lead	PCBs	OCP	TPH	VOCs	Sample Specific Notes:
AOC4-SV12-5	5/12/18	0759	G	S	6					X		X	X	
AOC4-SV12-15	5/12/18	0815	G	S	6					X		X	X	
AOC4-SV13-5	5/12/18	0910	G	S	6					X		X	X	
AOC4-SV13-15	5/12/18	1015	G	S	6					X		X	X	
AOC4-SV13-15DUP	5/12/18	1020	G	S	6					X		X	X	
EB-51219-C	5/12/18	1045	G	W	9					X		X	X	
TB	5/12/18	1050	G	W	1								X	1 VOA NO HCl
AOC4-SV11-5	5/12/18	1164	G	S	6					X		X	X	
A04-SV11-15	5/12/18	1130	G	S	6					X		X	X	

LB 5/12/18

440-211213 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ___ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No	Custody Seal No.:	Cooler Temp. (°C): Obs'd: ___ Corr'd: ___ Therm ID No.: ___

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	5/14/18 1140	Received by:	TA-IRV	5/12/18 1140
Relinquished by:	TA-IRV	5/12/18 1410	Received by:		
Relinquished by:			Received in Laboratory by:	TA IRV	5/12/18 1710

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

3.9/3.9 112-SC4

Page 040193

5/23/2018

15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-211213-1

Login Number: 211213

List Source: TestAmerica Irvine

List Number: 1

Creator: Bonta, Lucia F

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-199041-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
12/30/2017 9:20:56 AM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 9
Method Summary 11
Lab Chronicle 12
QC Sample Results 13
QC Association Summary 25
Definitions/Glossary 27
Certification Summary 28
Chain of Custody 29
Receipt Checklists 30

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-199041-1	Drum Composite	Solid	12/22/17 11:00	12/22/17 18:00

Job ID: 440-199041-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-199041-1

Comments
No additional comments.

Receipt
The sample was received on 12/22/2017 6:00 PM; the sample arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.3º C.

GC/MS VOA
Method(s) 8260B: Internal standard (ISTD) response for TBA-d9 for the following sample was above outside acceptance criteria: Drum Composite (440-199041-1). This ISTD does not correspond to any of the requested target compounds; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-448948 recovered outside control limits for the following analytes: Bromoform and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCS and were not detected in the associated samples; therefore, the data have been reported.

Method(s) 8260B: The laboratory control sample duplicate (LCSD) for analytical batch 440-448948 recovered outside control limits for the following analytes: n-Butylbenzene, 1,3,5-Trimethylbenzene and 1,2-Dibromo-3-Chloropropane. These analytes were biased high in the LCSD and were not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: The 8015-DRO matrix spike / matrix spike duplicate (MS/MSD) precision for preparation batch 440-448460 and analytical batch 440-448504 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) was within acceptance limits.

Method(s) 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 440-449003 and analytical batch 440-449006 were outside control limits for Endosulfan sulfate. Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Metals
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Client Sample ID: Drum Composite

Lab Sample ID: 440-199041-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.3		2.2	1.1	ug/Kg	1		8260B	Total/NA
Toluene	2.0	J	2.2	1.1	ug/Kg	1		8260B	Total/NA
DRO (C13-C22)	4.8	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
ORO (C23-C40)	35		5.0	2.5	mg/Kg	1		8015B	Total/NA
4,4'-DDE	4.1	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
4,4'-DDT	2.7	J	5.0	1.5	ug/Kg	1		8081A	Total/NA
Chlordane (technical)	11	J	50	10	ug/Kg	1		8081A	Total/NA
Arsenic	8.7		3.0	1.5	mg/Kg	5		6010B	Total/NA
Barium	150		1.5	0.75	mg/Kg	5		6010B	Total/NA
Beryllium	0.77		0.50	0.25	mg/Kg	5		6010B	Total/NA
Cadmium	2.0		0.50	0.25	mg/Kg	5		6010B	Total/NA
Chromium	29		1.0	0.50	mg/Kg	5		6010B	Total/NA
Cobalt	8.5		1.0	0.50	mg/Kg	5		6010B	Total/NA
Copper	27		2.0	1.1	mg/Kg	5		6010B	Total/NA
Lead	29		2.0	1.0	mg/Kg	5		6010B	Total/NA
Molybdenum	5.4		2.0	1.0	mg/Kg	5		6010B	Total/NA
Nickel	31		2.0	1.0	mg/Kg	5		6010B	Total/NA
Vanadium	61		1.0	0.50	mg/Kg	5		6010B	Total/NA
Zinc	91		5.0	2.5	mg/Kg	5		6010B	Total/NA
Mercury	0.029		0.020	0.012	mg/Kg	1		7471A	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: Drum Composite

Date Collected: 12/22/17 11:00
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199041-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2.3**		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Bromobenzene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Bromochloromethane	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Bromodichloromethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Bromoform	ND	*	5.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
2-Butanone (MEK)	ND		11	5.4	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Carbon tetrachloride	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Chlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Chloroethane	ND		5.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Chloroform	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Chloromethane	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
2-Chlorotoluene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
4-Chlorotoluene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
cis-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
cis-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Dibromochloromethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2-Dibromo-3-Chloropropane	ND	*	5.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2-Dibromoethane (EDB)	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Dibromomethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,3-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,4-Dichlorobenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Dichlorodifluoromethane	ND		5.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1-Dichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2-Dichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1-Dichloroethene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,3-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
2,2-Dichloropropane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Ethylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Hexachlorobutadiene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Isopropylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Methylene Chloride	ND		22	5.4	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Methyl-t-Butyl Ether (MTBE)	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
m,p-Xylene	ND		4.3	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Naphthalene	ND		5.4	2.2	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
n-Butylbenzene	ND	*	5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
N-Propylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
o-Xylene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
p-Isopropyltoluene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
sec-Butylbenzene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Styrene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
tert-Butylbenzene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1,1,2-Tetrachloroethane	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1,2,2-Tetrachloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Tetrachloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Toluene	**2.0**	**J**	2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
trans-1,2-Dichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1

Client Sample ID: Drum Composite

Date Collected: 12/22/17 11:00
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199041-1

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2,3-Trichlorobenzene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2,4-Trichlorobenzene	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1,1-Trichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,1,2-Trichloroethane	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Trichloroethene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Trichlorofluoromethane	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2,3-Trichloropropane	ND		11	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,2,4-Trimethylbenzene	ND		2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
1,3,5-Trimethylbenzene	ND	*	2.2	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1
Vinyl chloride	ND		5.4	1.1	ug/Kg		12/28/17 10:43	12/28/17 11:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*74 - 124*	*12/28/17 10:43*	*12/28/17 11:03*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 135*	*12/28/17 10:43*	*12/28/17 11:03*	*1*
Toluene-d8 (Surr)	*104*		*80 - 122*	*12/28/17 10:43*	*12/28/17 11:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/28/17 19:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*75*		*65 - 140*		*12/28/17 19:45*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	**4.8**	**J**	5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 17:19	1
ORO (C23-C40)	**35**		5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 17:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*79*		*40 - 140*	*12/23/17 07:09*	*12/23/17 17:19*	*1*

Method: 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
4,4'-DDE	**4.1**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
4,4'-DDT	**2.7**	**J**	5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Chlordane (technical)	**11**	**J**	50	10	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endosulfan sulfate	ND	F1	10	2.0	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 17:35	1

Client Sample ID: Drum Composite
Date Collected: 12/22/17 11:00
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199041-1
Matrix: Solid

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 17:35	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 17:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*80*		*35 - 115*	*12/28/17 10:18*	*12/28/17 17:35*	*1*
DCB Decachlorobiphenyl (Surr)	*61*		*45 - 120*	*12/28/17 10:18*	*12/28/17 17:35*	*1*

Method: 6010B - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Arsenic	**8.7**		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Barium	**150**		1.5	0.75	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Beryllium	**0.77**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Cadmium	**2.0**		0.50	0.25	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Chromium	**29**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Cobalt	**8.5**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Copper	**27**		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Lead	**29**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Molybdenum	**5.4**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Nickel	**31**		2.0	1.0	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Silver	ND		1.5	0.89	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Thallium	ND		10	5.0	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Vanadium	**61**		1.0	0.50	mg/Kg		12/27/17 08:47	12/27/17 18:13	5
Zinc	**91**		5.0	2.5	mg/Kg		12/27/17 08:47	12/27/17 18:13	5

Method: 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.029**		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 21:43	1

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(74-124)	(80-135)	(80-122)
440-199041-1	Drum Composite	107	107	104
LCS 440-448948/5	Lab Control Sample	97	105	100
LCSD 440-448948/6	Lab Control Sample Dup	100	105	99
MB 440-448948/3	Method Blank	95	111	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-199041-1	Drum Composite	75
440-199084-A-1 MS	Matrix Spike	90
440-199084-A-1 MSD	Matrix Spike Duplicate	81
LCS 440-448956/3	Lab Control Sample	124
LCSD 440-448956/4	Lab Control Sample Dup	123
MB 440-448956/5	Method Blank	85

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-199041-1	Drum Composite	79
440-199041-1 MS	Drum Composite	75
440-199041-1 MSD	Drum Composite	82
LCS 440-448460/2-A	Lab Control Sample	89
MB 440-448460/1-A	Method Blank	90

Surrogate Legend

OTCN = n-Octacosane

Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)	
		TCX2	DCB2
Lab Sample ID	Client Sample ID	(35-115)	(45-120)
440-199041-1	Drum Composite	80	61
440-199041-1 MS	Drum Composite	71	54
440-199041-1 MSD	Drum Composite	69	52

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)									
Lab Sample ID	Client Sample ID	TCX2 (35-115)	DCB2 (45-120)								
LCS 440-449003/2-A	Lab Control Sample	92	83								
MB 440-449003/1-A	Method Blank	87	70								

Surrogate Legend

TCX = Tetrachloro-m-xylene

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8081A	Organochlorine Pesticides (GC)	SW846	TAL IRV
6010B	Metals (ICP)	SW846	TAL IRV
7471A	Mercury (CVAA)	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Client Sample ID: Drum Composite

Date Collected: 12/22/17 11:00
Date Received: 12/22/17 18:00

Lab Sample ID: 440-199041-1

Matrix: Solid

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.623 g	10 mL	449019	12/28/17 10:43	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	448948	12/28/17 11:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	448956	12/28/17 19:45	KGL	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	448460	12/23/17 07:09	L1A	TAL IRV
Total/NA	Analysis	8015B		1			448504	12/23/17 17:19	LMB	TAL IRV
Total/NA	Prep	3546			15.00 g	2 mL	449003	12/28/17 10:18	L1A	TAL IRV
Total/NA	Analysis	8081A		1			449006	12/28/17 17:35	D1D	TAL IRV
Total/NA	Prep	3050B			2.01 g	50 mL	448722	12/27/17 08:47	DT	TAL IRV
Total/NA	Analysis	6010B		5			448893	12/27/17 18:13	K1E	TAL IRV
Total/NA	Prep	7471A			0.50 g	50 mL	448579	12/26/17 11:57	Q1N	TAL IRV
Total/NA	Analysis	7471A		1			449054	12/27/17 21:43	DB	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-448948/3
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Bromobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Bromoform	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			12/28/17 08:06	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Chloroethane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
Chloroform	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Chloromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dibromomethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Methylene Chloride	ND		20	5.0	ug/Kg			12/28/17 08:06	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			12/28/17 08:06	1
Naphthalene	ND		5.0	2.0	ug/Kg			12/28/17 08:06	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
o-Xylene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
Styrene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Toluene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-448948/3
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Trichloroethene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			12/28/17 08:06	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			12/28/17 08:06	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			12/28/17 08:06	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*74 - 124*		*12/28/17 08:06*	*1*
Dibromofluoromethane (Surr)	*111*		*80 - 135*		*12/28/17 08:06*	*1*
Toluene-d8 (Surr)	*100*		*80 - 122*		*12/28/17 08:06*	*1*

Lab Sample ID: LCS 440-448948/5
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	52.3		ug/Kg		105	65 - 120
Bromobenzene	50.0	54.1		ug/Kg		108	70 - 120
Bromochloromethane	50.0	61.9		ug/Kg		124	75 - 145
Bromodichloromethane	50.0	57.5		ug/Kg		115	75 - 135
Bromoform	50.0	68.2	*	ug/Kg		136	75 - 135
Bromomethane	50.0	50.6		ug/Kg		101	65 - 140
2-Butanone (MEK)	50.0	78.8		ug/Kg		158	25 - 170
Carbon tetrachloride	50.0	55.7		ug/Kg		111	65 - 130
Chlorobenzene	50.0	53.2		ug/Kg		106	70 - 120
Chloroethane	50.0	46.6		ug/Kg		93	60 - 135
Chloroform	50.0	52.6		ug/Kg		105	70 - 140
Chloromethane	50.0	46.6		ug/Kg		93	45 - 135
2-Chlorotoluene	50.0	51.9		ug/Kg		104	60 - 115
4-Chlorotoluene	50.0	53.7		ug/Kg		107	65 - 115
cis-1,2-Dichloroethene	50.0	53.3		ug/Kg		107	65 - 135
cis-1,3-Dichloropropene	50.0	57.0		ug/Kg		114	75 - 135
Dibromochloromethane	50.0	61.4		ug/Kg		123	75 - 135
1,2-Dibromo-3-Chloropropane	50.0	78.3	*	ug/Kg		157	75 - 150
1,2-Dibromoethane (EDB)	50.0	64.4		ug/Kg		129	85 - 140
Dibromomethane	50.0	60.5		ug/Kg		121	80 - 145
1,2-Dichlorobenzene	50.0	54.9		ug/Kg		110	75 - 125
1,3-Dichlorobenzene	50.0	52.2		ug/Kg		104	70 - 115
1,4-Dichlorobenzene	50.0	51.8		ug/Kg		104	70 - 120
Dichlorodifluoromethane	50.0	49.8		ug/Kg		100	35 - 160
1,1-Dichloroethane	50.0	52.4		ug/Kg		105	65 - 135

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-448948/5
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	62.0		ug/Kg		124	80 - 140
1,1-Dichloroethene	50.0	52.1		ug/Kg		104	55 - 130
1,2-Dichloropropane	50.0	54.9		ug/Kg		110	65 - 130
1,3-Dichloropropane	50.0	61.8		ug/Kg		124	80 - 135
2,2-Dichloropropane	50.0	56.6		ug/Kg		113	65 - 140
1,1-Dichloropropene	50.0	54.8		ug/Kg		110	80 - 120
Ethylbenzene	50.0	54.0		ug/Kg		108	70 - 120
Hexachlorobutadiene	50.0	47.9		ug/Kg		96	60 - 140
Isopropylbenzene	50.0	58.0		ug/Kg		116	55 - 120
Methylene Chloride	50.0	51.4		ug/Kg		103	60 - 140
Methyl-t-Butyl Ether (MTBE)	50.0	62.9		ug/Kg		126	75 - 150
m,p-Xylene	50.0	55.8		ug/Kg		112	65 - 120
Naphthalene	50.0	71.5		ug/Kg		143	70 - 160
n-Butylbenzene	50.0	54.2		ug/Kg		108	65 - 115
N-Propylbenzene	50.0	55.3		ug/Kg		111	60 - 115
o-Xylene	50.0	58.1		ug/Kg		116	70 - 125
p-Isopropyltoluene	50.0	54.9		ug/Kg		110	70 - 120
sec-Butylbenzene	50.0	54.9		ug/Kg		110	70 - 120
Styrene	50.0	54.3		ug/Kg		109	75 - 130
tert-Butylbenzene	50.0	55.3		ug/Kg		111	70 - 125
1,1,1,2-Tetrachloroethane	50.0	57.6		ug/Kg		115	75 - 130
1,1,2,2-Tetrachloroethane	50.0	66.5		ug/Kg		133	75 - 150
Tetrachloroethene	50.0	52.4		ug/Kg		105	65 - 130
Toluene	50.0	56.1		ug/Kg		112	70 - 120
trans-1,2-Dichloroethene	50.0	53.6		ug/Kg		107	65 - 135
trans-1,3-Dichloropropene	50.0	60.4		ug/Kg		121	75 - 145
1,2,3-Trichlorobenzene	50.0	57.3		ug/Kg		115	75 - 145
1,2,4-Trichlorobenzene	50.0	53.4		ug/Kg		107	70 - 145
1,1,1-Trichloroethane	50.0	54.1		ug/Kg		108	70 - 135
1,1,2-Trichloroethane	50.0	62.4		ug/Kg		125	80 - 145
Trichloroethene	50.0	54.5		ug/Kg		109	65 - 120
Trichlorofluoromethane	50.0	54.1		ug/Kg		108	60 - 145
1,2,3-Trichloropropane	50.0	70.8		ug/Kg		142	65 - 150
1,2,4-Trimethylbenzene	50.0	51.8		ug/Kg		104	65 - 115
1,3,5-Trimethylbenzene	50.0	55.8		ug/Kg		112	65 - 115
Vinyl chloride	50.0	48.2		ug/Kg		96	45 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*80 - 135*
Toluene-d8 (Surr)	*100*		*80 - 122*

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	50.0	53.0		ug/Kg		106	65 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromobenzene	50.0	55.3		ug/Kg		111	70 - 120	2	20
Bromochloromethane	50.0	60.7		ug/Kg		121	75 - 145	2	20
Bromodichloromethane	50.0	57.4		ug/Kg		115	75 - 135	0	20
Bromoform	50.0	66.2		ug/Kg		132	75 - 135	3	25
Bromomethane	50.0	52.2		ug/Kg		104	65 - 140	3	20
2-Butanone (MEK)	50.0	81.4		ug/Kg		163	25 - 170	3	30
Carbon tetrachloride	50.0	56.0		ug/Kg		112	65 - 130	1	20
Chlorobenzene	50.0	53.2		ug/Kg		106	70 - 120	0	20
Chloroethane	50.0	47.5		ug/Kg		95	60 - 135	2	25
Chloroform	50.0	52.9		ug/Kg		106	70 - 140	1	20
Chloromethane	50.0	48.2		ug/Kg		96	45 - 135	3	25
2-Chlorotoluene	50.0	53.9		ug/Kg		108	60 - 115	4	20
4-Chlorotoluene	50.0	54.8		ug/Kg		110	65 - 115	2	20
cis-1,2-Dichloroethene	50.0	54.0		ug/Kg		108	65 - 135	1	20
cis-1,3-Dichloropropene	50.0	58.2		ug/Kg		116	75 - 135	2	20
Dibromochloromethane	50.0	61.0		ug/Kg		122	75 - 135	1	20
1,2-Dibromo-3-Chloropropane	50.0	81.2	*	ug/Kg		162	75 - 150	4	30
1,2-Dibromoethane (EDB)	50.0	64.2		ug/Kg		128	85 - 140	0	20
Dibromomethane	50.0	61.7		ug/Kg		123	80 - 145	2	20
1,2-Dichlorobenzene	50.0	56.5		ug/Kg		113	75 - 125	3	20
1,3-Dichlorobenzene	50.0	53.8		ug/Kg		108	70 - 115	3	20
1,4-Dichlorobenzene	50.0	53.4		ug/Kg		107	70 - 120	3	20
Dichlorodifluoromethane	50.0	51.6		ug/Kg		103	35 - 160	4	30
1,1-Dichloroethane	50.0	53.9		ug/Kg		108	65 - 135	3	20
1,2-Dichloroethane	50.0	61.9		ug/Kg		124	80 - 140	0	20
1,1-Dichloroethene	50.0	52.8		ug/Kg		106	55 - 130	1	20
1,2-Dichloropropane	50.0	55.4		ug/Kg		111	65 - 130	1	20
1,3-Dichloropropane	50.0	59.6		ug/Kg		119	80 - 135	4	20
2,2-Dichloropropane	50.0	57.3		ug/Kg		115	65 - 140	1	20
1,1-Dichloropropene	50.0	56.1		ug/Kg		112	80 - 120	2	20
Ethylbenzene	50.0	54.2		ug/Kg		108	70 - 120	0	20
Hexachlorobutadiene	50.0	51.5		ug/Kg		103	60 - 140	7	20
Isopropylbenzene	50.0	58.7		ug/Kg		117	55 - 120	1	20
Methylene Chloride	50.0	46.0		ug/Kg		92	60 - 140	11	20
Methyl-t-Butyl Ether (MTBE)	50.0	65.2		ug/Kg		130	75 - 150	4	20
m,p-Xylene	50.0	55.6		ug/Kg		111	65 - 120	0	20
Naphthalene	50.0	75.0		ug/Kg		150	70 - 160	5	25
n-Butylbenzene	50.0	58.0	*	ug/Kg		116	65 - 115	7	20
N-Propylbenzene	50.0	57.6		ug/Kg		115	60 - 115	4	20
o-Xylene	50.0	57.7		ug/Kg		115	70 - 125	1	20
p-Isopropyltoluene	50.0	57.4		ug/Kg		115	70 - 120	4	20
sec-Butylbenzene	50.0	58.2		ug/Kg		116	70 - 120	6	20
Styrene	50.0	54.9		ug/Kg		110	75 - 130	1	20
tert-Butylbenzene	50.0	58.0		ug/Kg		116	70 - 125	5	20
1,1,1,2-Tetrachloroethane	50.0	57.1		ug/Kg		114	75 - 130	1	20
1,1,2,2-Tetrachloroethane	50.0	67.6		ug/Kg		135	75 - 150	2	30
Tetrachloroethene	50.0	52.5		ug/Kg		105	65 - 130	0	20
Toluene	50.0	55.6		ug/Kg		111	70 - 120	1	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 440-448948/6
Matrix: Solid
Analysis Batch: 448948

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
trans-1,2-Dichloroethene			50.0	55.7		ug/Kg		111	65 - 135	4	20
trans-1,3-Dichloropropene			50.0	60.6		ug/Kg		121	75 - 145	0	20
1,2,3-Trichlorobenzene			50.0	59.7		ug/Kg		119	75 - 145	4	20
1,2,4-Trichlorobenzene			50.0	55.3		ug/Kg		111	70 - 145	4	20
1,1,1-Trichloroethane			50.0	55.4		ug/Kg		111	70 - 135	2	20
1,1,2-Trichloroethane			50.0	60.6		ug/Kg		121	80 - 145	3	20
Trichloroethene			50.0	55.5		ug/Kg		111	65 - 120	2	20
Trichlorofluoromethane			50.0	54.9		ug/Kg		110	60 - 145	1	25
1,2,3-Trichloropropane			50.0	74.1		ug/Kg		148	65 - 150	5	25
1,2,4-Trimethylbenzene			50.0	53.4		ug/Kg		107	65 - 115	3	20
1,3,5-Trimethylbenzene			50.0	58.3	*	ug/Kg		117	65 - 115	4	20
Vinyl chloride			50.0	49.8		ug/Kg		100	45 - 135	3	25

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*74 - 124*
Dibromofluoromethane (Surr)	*105*		*80 - 135*
Toluene-d8 (Surr)	*99*		*80 - 122*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-448956/5
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			12/28/17 09:26	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*85*		*65 - 140*		*12/28/17 09:26*	*1*

Lab Sample ID: LCS 440-448956/3
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)			1600	1910		ug/Kg		119	70 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*124*		*65 - 140*

Lab Sample ID: LCSD 440-448956/4
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1890		ug/Kg		118	70 - 135	1	20

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: LCSD 440-448956/4
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	123		65 - 140

Lab Sample ID: 440-199084-A-1 MS
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		1590	1260		ug/Kg		79	60 - 140

Surrogate	MS %Recovery	MS Qualifier	Limits
4-Bromofluorobenzene (Surr)	90		65 - 140

Lab Sample ID: 440-199084-A-1 MSD
Matrix: Solid
Analysis Batch: 448956

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1090		ug/Kg		68	60 - 140	15	30

Surrogate	MSD %Recovery	MSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	81		65 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-448460/1-A
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448460

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 16:36	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		12/23/17 07:09	12/23/17 16:36	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	90		40 - 140	12/23/17 07:09	12/23/17 16:36	1

Lab Sample ID: LCS 440-448460/2-A
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448460

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	66.4	56.5		mg/Kg		85	45 - 115

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	89		40 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-199041-1 MS
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Drum Composite
Prep Type: Total/NA
Prep Batch: 448460

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	17	F2 B	66.5	76.2		mg/Kg		88	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*75*		*40 - 140*

Lab Sample ID: 440-199041-1 MSD
Matrix: Solid
Analysis Batch: 448504

Client Sample ID: Drum Composite
Prep Type: Total/NA
Prep Batch: 448460

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	17	F2 B	66.6	52.5	F2	mg/Kg		53	40 - 120	37	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*82*		*40 - 140*

Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 440-449003/1-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 449003

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDE	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
4,4'-DDT	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Aldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
alpha-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
beta-BHC	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Chlordane (technical)	ND		50	10	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
delta-BHC	ND		10	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Dieldrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan I	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan II	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endosulfan sulfate	ND		10	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin aldehyde	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Endrin ketone	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
gamma-BHC (Lindane)	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Heptachlor epoxide	ND		5.0	2.0	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Methoxychlor	ND		5.0	1.5	ug/Kg		12/28/17 10:18	12/28/17 16:36	1
Toxaphene	ND		200	50	ug/Kg		12/28/17 10:18	12/28/17 16:36	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Tetrachloro-m-xylene	*87*		*35 - 115*	*12/28/17 10:18*	*12/28/17 16:36*	*1*
DCB Decachlorobiphenyl (Surr)	*70*		*45 - 120*	*12/28/17 10:18*	*12/28/17 16:36*	*1*

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 440-449003/2-A
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	13.3	12.7		ug/Kg		95	59 - 118
4,4'-DDE	13.3	12.1		ug/Kg		91	55 - 115
4,4'-DDT	13.3	12.8		ug/Kg		96	51 - 131
Aldrin	13.3	11.9		ug/Kg		90	46 - 115
alpha-BHC	13.3	11.7		ug/Kg		87	38 - 115
beta-BHC	13.3	11.6		ug/Kg		87	46 - 115
delta-BHC	13.3	11.9		ug/Kg		89	52 - 115
Dieldrin	13.3	12.3		ug/Kg		92	57 - 115
Endosulfan I	13.3	11.7		ug/Kg		88	56 - 115
Endosulfan II	13.3	11.4		ug/Kg		86	49 - 117
Endosulfan sulfate	13.3	11.6		ug/Kg		87	54 - 115
Endrin	13.3	12.1		ug/Kg		91	56 - 120
Endrin aldehyde	13.3	10.5		ug/Kg		78	41 - 115
Endrin ketone	13.3	12.1		ug/Kg		91	54 - 119
gamma-BHC (Lindane)	13.3	11.8		ug/Kg		89	49 - 115
Heptachlor	13.3	11.9		ug/Kg		90	52 - 115
Heptachlor epoxide	13.3	11.7		ug/Kg		87	38 - 128
Methoxychlor	13.3	14.2		ug/Kg		107	46 - 146

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
Tetrachloro-m-xylene	*92*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*83*		*45 - 120*

Lab Sample ID: 440-199041-1 MS
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Drum Composite
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
4,4'-DDD	ND		13.3	8.95		ug/Kg		67	40 - 130
4,4'-DDE	4.1	J	13.3	12.9		ug/Kg		67	35 - 130
4,4'-DDT	2.7	J	13.3	12.5		ug/Kg		73	35 - 130
Aldrin	ND		13.3	8.89		ug/Kg		67	40 - 115
alpha-BHC	ND		13.3	8.60		ug/Kg		65	40 - 115
beta-BHC	ND		13.3	8.51		ug/Kg		64	40 - 120
delta-BHC	ND		13.3	8.57	J	ug/Kg		64	45 - 120
Dieldrin	ND		13.3	8.73		ug/Kg		65	40 - 125
Endosulfan I	ND		13.3	8.28		ug/Kg		62	40 - 120
Endosulfan II	ND		13.3	7.61		ug/Kg		57	40 - 125
Endosulfan sulfate	ND	F1	13.3	16.8	F1	ug/Kg		126	45 - 120
Endrin	ND		13.3	8.54		ug/Kg		64	45 - 125
Endrin aldehyde	ND		13.3	6.57	p	ug/Kg		49	30 - 120
Endrin ketone	ND		13.3	7.66		ug/Kg		57	40 - 120
gamma-BHC (Lindane)	ND		13.3	8.59		ug/Kg		64	40 - 120
Heptachlor	ND		13.3	8.53		ug/Kg		64	40 - 115
Heptachlor epoxide	ND		13.3	8.51		ug/Kg		64	45 - 115
Methoxychlor	ND		13.3	9.26		ug/Kg		69	40 - 135

Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: 440-199041-1 MS
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Drum Composite
Prep Type: Total/NA
Prep Batch: 449003

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
Tetrachloro-m-xylene	*71*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*54*		*45 - 120*

Lab Sample ID: 440-199041-1 MSD
Matrix: Solid
Analysis Batch: 449006

Client Sample ID: Drum Composite
Prep Type: Total/NA
Prep Batch: 449003

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
4,4'-DDD	ND		13.3	8.33		ug/Kg		62	40 - 130	7	30
4,4'-DDE	4.1	J	13.3	12.5		ug/Kg		64	35 - 130	3	30
4,4'-DDT	2.7	J	13.3	11.5		ug/Kg		66	35 - 130	8	30
Aldrin	ND		13.3	8.50		ug/Kg		64	40 - 115	5	30
alpha-BHC	ND		13.3	8.27		ug/Kg		62	40 - 115	4	30
beta-BHC	ND		13.3	8.06		ug/Kg		60	40 - 120	5	30
delta-BHC	ND		13.3	8.20	J	ug/Kg		61	45 - 120	4	30
Dieldrin	ND		13.3	8.25		ug/Kg		62	40 - 125	6	30
Endosulfan I	ND		13.3	7.64		ug/Kg		57	40 - 120	8	30
Endosulfan II	ND		13.3	7.04		ug/Kg		53	40 - 125	8	30
Endosulfan sulfate	ND	F1	13.3	18.8	F1	ug/Kg		141	45 - 120	11	30
Endrin	ND		13.3	8.04		ug/Kg		60	45 - 125	6	30
Endrin aldehyde	ND		13.3	5.94	p	ug/Kg		45	30 - 120	10	30
Endrin ketone	ND		13.3	6.94		ug/Kg		52	40 - 120	10	30
gamma-BHC (Lindane)	ND		13.3	7.98		ug/Kg		60	40 - 120	7	30
Heptachlor	ND		13.3	7.89		ug/Kg		59	40 - 115	8	30
Heptachlor epoxide	ND		13.3	8.00		ug/Kg		60	45 - 115	6	30
Methoxychlor	ND		13.3	7.31		ug/Kg		55	40 - 135	24	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
Tetrachloro-m-xylene	*69*		*35 - 115*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*

Method: 6010B - Metals (ICP)

Lab Sample ID: MB 440-448722/1-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Arsenic	ND		3.0	1.5	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Barium	ND		1.5	0.74	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Beryllium	ND		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Cadmium	ND		0.49	0.25	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Chromium	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Cobalt	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Copper	ND		2.0	1.1	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Lead	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: MB 440-448722/1-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448722

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Molybdenum	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Nickel	ND		2.0	0.99	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Selenium	ND		3.0	1.7	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Silver	ND		1.5	0.88	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Thallium	ND		9.9	4.9	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Vanadium	ND		0.99	0.49	mg/Kg		12/27/17 08:47	12/27/17 17:09	5
Zinc	ND		4.9	2.5	mg/Kg		12/27/17 08:47	12/27/17 17:09	5

Lab Sample ID: LCS 440-448722/2-A ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	49.8	47.1		mg/Kg		95	80 - 120
Arsenic	49.8	46.0		mg/Kg		92	80 - 120
Barium	49.8	46.5		mg/Kg		93	80 - 120
Beryllium	49.8	46.1		mg/Kg		93	80 - 120
Cadmium	49.8	46.5		mg/Kg		93	80 - 120
Chromium	49.8	47.6		mg/Kg		96	80 - 120
Cobalt	49.8	47.4		mg/Kg		95	80 - 120
Copper	49.8	47.5		mg/Kg		96	80 - 120
Lead	49.8	47.4		mg/Kg		95	80 - 120
Molybdenum	49.8	47.3		mg/Kg		95	80 - 120
Nickel	49.8	47.4		mg/Kg		95	80 - 120
Selenium	49.8	42.8		mg/Kg		86	80 - 120
Silver	24.9	23.4		mg/Kg		94	80 - 120
Thallium	49.8	46.8		mg/Kg		94	80 - 120
Vanadium	49.8	47.1		mg/Kg		95	80 - 120
Zinc	49.8	46.2		mg/Kg		93	80 - 120

Lab Sample ID: 440-198997-K-24-C MS ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		49.3	39.4		mg/Kg		80	75 - 125
Arsenic	ND		49.3	46.4		mg/Kg		94	75 - 125
Barium	29		49.3	79.1		mg/Kg		102	75 - 125
Beryllium	ND		49.3	46.4		mg/Kg		94	75 - 125
Cadmium	ND		49.3	45.8		mg/Kg		93	75 - 125
Chromium	3.9		49.3	50.8		mg/Kg		95	75 - 125
Cobalt	1.7		49.3	47.7		mg/Kg		93	75 - 125
Copper	4.0		49.3	51.9		mg/Kg		97	75 - 125
Lead	1.2	J	49.3	47.3		mg/Kg		94	75 - 125
Molybdenum	ND		49.3	46.7		mg/Kg		95	75 - 125
Nickel	2.1		49.3	47.6		mg/Kg		92	75 - 125
Selenium	ND		49.3	43.3		mg/Kg		88	75 - 125
Silver	ND		24.6	23.2		mg/Kg		94	75 - 125
Thallium	ND		49.3	47.0		mg/Kg		95	75 - 125

Method: 6010B - Metals (ICP) (Continued)

Lab Sample ID: 440-198997-K-24-C MS ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	13		49.3	61.7		mg/Kg		99	75 - 125
Zinc	15		49.3	58.0		mg/Kg		87	75 - 125

Lab Sample ID: 440-198997-K-24-D MSD ^5
Matrix: Solid
Analysis Batch: 448893

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448722

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		49.5	40.4		mg/Kg		82	75 - 125	2	20
Arsenic	ND		49.5	48.0		mg/Kg		97	75 - 125	3	20
Barium	29		49.5	84.8		mg/Kg		113	75 - 125	7	20
Beryllium	ND		49.5	47.2		mg/Kg		95	75 - 125	2	20
Cadmium	ND		49.5	46.1		mg/Kg		93	75 - 125	1	20
Chromium	3.9		49.5	51.5		mg/Kg		96	75 - 125	1	20
Cobalt	1.7		49.5	48.3		mg/Kg		94	75 - 125	1	20
Copper	4.0		49.5	52.6		mg/Kg		98	75 - 125	1	20
Lead	1.2	J	49.5	48.2		mg/Kg		95	75 - 125	2	20
Molybdenum	ND		49.5	47.2		mg/Kg		95	75 - 125	1	20
Nickel	2.1		49.5	48.3		mg/Kg		93	75 - 125	1	20
Selenium	ND		49.5	44.2		mg/Kg		89	75 - 125	2	20
Silver	ND		24.8	23.4		mg/Kg		95	75 - 125	1	20
Thallium	ND		49.5	47.3		mg/Kg		95	75 - 125	1	20
Vanadium	13		49.5	61.6		mg/Kg		99	75 - 125	0	20
Zinc	15		49.5	60.2		mg/Kg		91	75 - 125	4	20

Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 440-448579/1-A
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 448579

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.020	0.012	mg/Kg		12/26/17 11:57	12/27/17 20:57	1

Lab Sample ID: LCS 440-448579/2-A
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 448579

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.800	0.831		mg/Kg		104	80 - 120

Lab Sample ID: 440-199019-A-1-E MS
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 448579

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	0.036		0.800	0.792		mg/Kg		95	70 - 130

Method: 7471A - Mercury (CVAA) (Continued)

Lab Sample ID: 440-199019-A-1-F MSD
Matrix: Solid
Analysis Batch: 449054

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 448579

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	0.036		0.784	0.766		mg/Kg		93	70 - 130	3	20

GC/MS VOA

Analysis Batch: 448948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	8260B	449019
MB 440-448948/3	Method Blank	Total/NA	Solid	8260B	
LCS 440-448948/5	Lab Control Sample	Total/NA	Solid	8260B	
LCSD 440-448948/6	Lab Control Sample Dup	Total/NA	Solid	8260B	

Prep Batch: 449019

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	5035	

GC VOA

Analysis Batch: 448956

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	8015B	
MB 440-448956/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-448956/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-448956/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-199084-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-199084-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

GC Semi VOA

Prep Batch: 448460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	3546	
MB 440-448460/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-448460/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199041-1 MS	Drum Composite	Total/NA	Solid	3546	
440-199041-1 MSD	Drum Composite	Total/NA	Solid	3546	

Analysis Batch: 448504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	8015B	448460
MB 440-448460/1-A	Method Blank	Total/NA	Solid	8015B	448460
LCS 440-448460/2-A	Lab Control Sample	Total/NA	Solid	8015B	448460
440-199041-1 MS	Drum Composite	Total/NA	Solid	8015B	448460
440-199041-1 MSD	Drum Composite	Total/NA	Solid	8015B	448460

Prep Batch: 449003

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	3546	
MB 440-449003/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-199041-1 MS	Drum Composite	Total/NA	Solid	3546	
440-199041-1 MSD	Drum Composite	Total/NA	Solid	3546	

Analysis Batch: 449006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	8081A	449003
MB 440-449003/1-A	Method Blank	Total/NA	Solid	8081A	449003

GC Semi VOA (Continued)

Analysis Batch: 449006 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 440-449003/2-A	Lab Control Sample	Total/NA	Solid	8081A	449003
440-199041-1 MS	Drum Composite	Total/NA	Solid	8081A	449003
440-199041-1 MSD	Drum Composite	Total/NA	Solid	8081A	449003

Metals

Prep Batch: 448579

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	7471A	
MB 440-448579/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 440-448579/2-A	Lab Control Sample	Total/NA	Solid	7471A	
440-199019-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	
440-199019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	

Prep Batch: 448722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	3050B	
MB 440-448722/1-A ^5	Method Blank	Total/NA	Solid	3050B	
LCS 440-448722/2-A ^5	Lab Control Sample	Total/NA	Solid	3050B	
440-198997-K-24-C MS ^5	Matrix Spike	Total/NA	Solid	3050B	
440-198997-K-24-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	3050B	

Analysis Batch: 448893

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	6010B	448722
MB 440-448722/1-A ^5	Method Blank	Total/NA	Solid	6010B	448722
LCS 440-448722/2-A ^5	Lab Control Sample	Total/NA	Solid	6010B	448722
440-198997-K-24-C MS ^5	Matrix Spike	Total/NA	Solid	6010B	448722
440-198997-K-24-D MSD ^5	Matrix Spike Duplicate	Total/NA	Solid	6010B	448722

Analysis Batch: 449054

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-199041-1	Drum Composite	Total/NA	Solid	7471A	448579
MB 440-448579/1-A	Method Blank	Total/NA	Solid	7471A	448579
LCS 440-448579/2-A	Lab Control Sample	Total/NA	Solid	7471A	448579
440-199019-A-1-E MS	Matrix Spike	Total/NA	Solid	7471A	448579
440-199019-A-1-F MSD	Matrix Spike Duplicate	Total/NA	Solid	7471A	448579

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
p	The %RPD between the primary and confirmation column/detector is >40%. The lower value has been reported.
F2	MS/MSD RPD exceeds control limits

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-199041-1

Laboratory: TestAmerica Irvine

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	EPA Region	Identification Number	Expiration Date
Alaska	State Program	10	CA01531	06-30-18
Arizona	State Program	9	AZ0671	10-14-18
California	LA Cty Sanitation Districts	9	10256	06-30-18
California	State Program	9	CA ELAP 2706	06-30-18
Guam	State Program	9	Cert. No. 17-003R	01-23-18 *
Hawaii	State Program	9	N/A	01-29-18 *
Kansas	NELAP	7	E-10420	07-31-18
Nevada	State Program	9	CA015312018-1	07-31-18
New Mexico	State Program	6	N/A	01-29-18 *
Northern Mariana Islands	State Program	9	MP0002	01-29-17 *
Oregon	NELAP	10	4028	01-29-18 *
USDA	Federal		P330-15-00184	07-08-18
Washington	State Program	10	C900	09-03-18

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

TestAmerica Irvine
17461 Derian Avenue
Suite 100
Irvine, CA 92614-5843
phone 949.261.1022 fax 949.260.3299

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Regulatory Program: ☐DW ☐NPDES ☐RCRA ☑Other:

TestAmerica Laboratories, Inc.

Client Contact	Project Manager: Justin King	Site Contact: Nenette Paulson	Date: 12-22-17	COC No:
Parsons	Tel/Fax: 626-440-6133	Lab Contact: Patty Mata	Carrier:	1 of 1 COCs
100 West Walnut St	Analysis Turnaround Time			Sampler: Nenette Paulson
Pasadena, Ca 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
(626) 440-6133	TAT if different from Below ___Std___			Walk-in Client:
	☐ 2 weeks			Lab Sampling:
Project Name: Resdea HS PEA	☐ 1 week			
Site: Reseda HS	☐ 2 days			Job / SDG No.:
P O #	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	TPHs bromo. 418.1 8015	Title 22 Metals 6010B 7470	PCBs	VOCs	OCPs by 8081A	Sample Specific Notes:
Drum Composite	12-22-17	1100	G	S	5			X	X		X	X	

440-199041 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other ____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample.

☑Non-Hazard ☐Flammable ☐Skin Irritant ☐Poison B ☐Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐Return to Client ☑Disposal by Lab ☐Archive for ____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No.: | Cooler Temp. (°C): Obs'd: 3.7 Corr'd: 4.3 | Therm ID No.: 66

Relinquished by:		Company: Parsons	Date/Time: 12/22/17 1040	Received by:		Company: TA	Date/Time: 12/22/17 1040
Relinquished by:		Company: TA	Date/Time: 12/22/17 1800	Received by:		Company:	Date/Time:
Relinquished by:		Company:	Date/Time:	Received in Laboratory by:		Company: TAI	Date/Time: 12/22/17 1800

Form No. CA-C-WI-002, Rev. 4.15, dated 9/27/2017

12/30/2017

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-199041-1

Login Number: 199041
List Number: 1
Creator: Soderblom, Tim

List Source: TestAmerica Irvine

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX E

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/3/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	F-0093 450810-02000
Attn:	Justin King	**Date Sampled:** **Date Received:**	1/3/2018 1/3/2018
Project Name:	Reseda High School REA	**Date Analyzed:**	1/3/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/3/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0093 450810-02000
Attn:	Justin King	**Date Sampled:**	1/3/2018
		Date Received:	1/3/2018
Project:	Reseda High School REA	**Date Analyzed:**	1/3/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5'**	**AOC4-SV1-15'**	**AOC4-SV2-5'**	**AOC4-SV2-5' REP**	**AOC4-SV2-15'**		
Jones ID:	**F-0093-01**	**F-0093-02**	**F-0093-03**	**F-0093-04**	**F-0093-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5'**	**AOC4-SV1-15'**	**AOC4-SV2-5'**	**AOC4-SV2-5' REP**	**AOC4-SV2-15'**		
Jones ID:	**F-0093-01**	**F-0093-02**	**F-0093-03**	**F-0093-04**	**F-0093-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethene	**0.259**	**0.322**	**0.186**	**0.197**	**0.173**	0.008	µg/L
Toluene	**0.015**	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
TIC:							
n-Pentane	ND	ND	ND	ND	ND	0.400	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.400	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.400	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	94%	96%	96%	94%	95%	60 - 140	
Toluene-d	99%	99%	99%	100%	101%	60 - 140	
4-Bromofluorobenzene	100%	99%	99%	100%	101%	60 - 140	
	F1-010318-F-0093	F1-010318-F-0093	F1-010318-F-0093	F1-010318-F-0093	F1-010318-F-0093		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/3/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0093 450810-02000
Attn:	Justin King	**Date Sampled:**	1/3/2018
		Date Received:	1/3/2018
Project:	Reseda High School REA	**Date Analyzed:**	1/3/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC5-SV1-5'**	**AOC5-SV1-15'**	**AOC5-SV2-5'**	**AOC5-SV2-15'**		
Jones ID:	**F-0093-06**	**F-0093-07**	**F-0093-08**	**F-0093-09**	**Practical Quantitation Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC5-SV1-5'	AOC5-SV1-15'	AOC5-SV2-5'	AOC5-SV2-15'		
Jones ID:	**F-0093-06**	**F-0093-07**	**F-0093-08**	**F-0093-09**	**Practical Quantitation Limit**	**Units**
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethene	ND	ND	ND	ND	0.008	µg/L
Toluene	ND	**0.015**	**0.009**	**0.011**	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	0.400	µg/L
TIC:						
n-Pentane	ND	ND	ND	ND	0.400	µg/L
n-Hexane	ND	ND	ND	ND	0.400	µg/L
n-Heptane	ND	ND	ND	ND	0.400	µg/L
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	94%	94%	94%	94%	60 - 140	
Toluene-d	100%	99%	101%	100%	60 - 140	
4-Bromofluorobenzene	101%	99%	100%	101%	60 - 140	
	F1-010318-F-0093	F1-010318-F-0093	F1-010318-F-0093	F1-010318-F-0093		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/3/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0093 450810-02000
Attn:	Justin King	**Date Sampled:**	1/3/2018
		Date Received:	1/3/2018
Project:	Reseda High School REA	**Date Analyzed:**	1/3/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**010318-F1MB1**	**010318-F1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	010318-F1MB1	010318-F1SB1	Practical Quantitation Limit	Units
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.040	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.008	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	0.008	µg/L
o-Xylene	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
TIC:				
n-Pentane	ND	ND	0.400	µg/L
n-Hexane	ND	ND	0.400	µg/L
n-Heptane	ND	ND	0.400	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	97%	95%	60 - 140	
Toluene-d	100%	99%	60 - 140	
4-Bromofluorobenzene	98%	98%	60 - 140	
	F1-010318-F-0093	F1-010318-F-0093		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/3/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0093 450810-02000
Attn:	Justin King	**Date Sampled:** **Date Received:**	1/3/2018 1/3/2018
Project:	Reseda High School REA	**Date Analyzed:**	1/3/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: F1-010318-F-0093

Jones ID:	**010318-F1LCS1**	**010318-F1LCSD1**			**010318-F1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	34%	34%	1.1%	70 - 130	69%	80 - 120
1,1-Dichloroethene	86%	85%	1.4%	70 - 130	111%	80 - 120
Cis-1,2-Dichloroethene	101%	101%	0.1%	70 - 130	106%	80 - 120
1,1,1-Trichloroethane	89%	89%	0.7%	70 - 130	95%	80 - 120
Benzene	105%	105%	0.1%	70 - 130	109%	80 - 120
Trichloroethene	114%	113%	1.5%	70 - 130	118%	80 - 120
Toluene	112%	111%	0.8%	70 - 130	111%	80 - 120
Tetrachloroethene	109%	109%	0.1%	70 - 130	113%	80 - 120
Chlorobenzene	113%	113%	0.5%	70 - 130	112%	80 - 120
Ethylbenzene	110%	111%	0.7%	70 - 130	112%	80 - 120
1,2,4 Trimethylbenzene	111%	111%	0.3%	70 - 130	113%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	97%	99%		60 - 140	97%	60 - 140
Toluene-d8	99%	101%		60 - 140	99%	60 - 140
4-Bromofluorobenzene	100%	99%		60 - 140	99%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS

Date: 1/3/2018

Purge Number: □ 1P □ 3P □ 7P □ 10P

Report Options: EDD _____ EDF* - 10% Surcharge____

Project Name: RESEDA HIGH SCHOOL PEA

Client Project #: 450810-02000

Shut-In Test: Y / N

*Global ID _____

LAB USE ONLY

Jones Project #: F-0093

Project Address: 18230 KITTRIDGE STREET

RESEDA, CA

Page 1 of 1

Email:

Phone: (310)809-5793

Report To: JUSTIN KING

Sampler: ANGELA HAAR

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- □ Mobile Lab

Tracer
- □ n-pentane
- □ n-hexane
- □ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: □ Commercial □ Residential

Units: _____

Sample Container: GASTIGHT GLASS SYRINGE

If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV1-5'	3	2220	1/3/18	7:26	7:27	F-0093-01	~200	JOSH.1	M100.106	SG	X				<2	2	
AOC4-SV1-15'	3	1790	1/3/18	7:40	7:42	F-0093-02	~200	STEVE.1	M100.115	SG	X				<2	2	
AOC4-SV2-5'	3	2810	1/3/18	7:57	8:00	F-0093-03	~200	JOSH.1	M100.106	SG	X				2	2	
AOC4-SV2-5' REP	3	2810	1/3/18	8:13	8:17	F-0093-04	~200	JOSH.1	M100.106	SG	X				2	2	
AOC4-SV2-15'	3	2980	1/3/18	8:30	8:35	F-0093-05	~200	STEVE.1	M100.115	SG	X				2	2	
AOC5-SV1-5'	3	2220	1/3/18	8:43	8:53	F-0093-06	~200	JOSH.1	M100.106	SG	X				<2	2	
AOC5-SV1-15'	3	1790	1/3/18	9:00	9:11	F-0093-07	~200	STEVE.1	M100.115	SG	X				4	2	
AOC5-SV2-5'	3	2810	1/3/18	9:22	9:28	F-0093-08	~200	JOSH.1	M100.106	SG	X				2	2	
AOC5-SV2-15'	3	2980	1/3/18	9:43	9:49	F-0093-09	~200	STEVE.1	M100.115	SG	X				4	2	

Relinquished By (Signature) | **Printed Name** | **Company** | **Date** | **Time**

Received By (Signature) | **Printed Name**: ANGELA HAAR | **Company**: JONES ENVIRONMENTAL, INC. | **Date**: 1/3/2018 | **Time**

18 Total Number of Containers

Relinquished By (Signature) | **Printed Name** | **Company** | **Date** | **Time**

Received By Laboratory (Signature) | **Printed Name** | **Company** | **Date** | **Time**

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	2/27/2018 2/27/2018
Project Name:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Colby Wakeman
QA/QC Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:**	2/27/2018
		Date Received:	2/27/2018
Project:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV3-5'**	**AOC4-SV3-15'**	**AOC4-SV1-5'**	**AOC4-SV1-5' REP**	**AOC4-SV1-15'**		
Jones ID:	**F-0115-01**	**F-0115-02**	**F-0115-03**	**F-0115-04**	**F-0115-05**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV3-5'**	**AOC4-SV3-15'**	**AOC4-SV1-5'**	**AOC4-SV1-5' REP**	**AOC4-SV1-15'**		
Jones ID:	**F-0115-01**	**F-0115-02**	**F-0115-03**	**F-0115-04**	**F-0115-05**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethene	**0.322**	**0.448**	**0.226**	**0.195**	**0.257**	0.008	µg/L
Toluene	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	**0.008**	ND	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.400	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.400	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.400	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	103%	105%	105%	105%	106%	60 - 140	
Toluene-d_8	101%	100%	101%	102%	99%	60 - 140	
4-Bromofluorobenzene	96%	97%	97%	98%	96%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	2/27/2018 2/27/2018
Project:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV2-5'**	**AOC4-SV2-15'**	**AOC4-SV4-5'**	**AOC4-SV4-15'**	**AOC4-SV5-5'**		
Jones ID:	**F-0115-06**	**F-0115-07**	**F-0115-08**	**F-0115-09**	**F-0115-10**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	ND	ND	ND	0.008	µg/L
Bromoform	ND	ND	ND	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	ND	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Chloroform	ND	ND	ND	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	ND	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV2-5'**	**AOC4-SV2-15'**	**AOC4-SV4-5'**	**AOC4-SV4-15'**	**AOC4-SV5-5'**		
Jones ID:	**F-0115-06**	**F-0115-07**	**F-0115-08**	**F-0115-09**	**F-0115-10**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Freon 113	ND	ND	ND	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	ND	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	ND	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	ND	ND	ND	0.008	µg/L
Naphthalene	ND	ND	ND	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Styrene	ND	ND	ND	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Tetrachloroethene	**0.149**	**0.125**	**0.118**	**0.179**	ND	0.008	µg/L
Toluene	ND	ND	ND	**0.009**	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	ND	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	ND	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
o-Xylene	ND	ND	ND	ND	ND	0.008	µg/L
MTBE	ND	ND	ND	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	ND	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	ND	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	ND	ND	ND	0.400	µg/L
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	0.400	µg/L
n-Hexane	ND	ND	ND	ND	ND	0.400	µg/L
n-Heptane	ND	ND	ND	ND	ND	0.400	µg/L
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	105%	105%	104%	104%	104%	60 - 140	
Toluene-d_8	100%	100%	101%	100%	101%	60 - 140	
4-Bromofluorobenzene	96%	99%	97%	96%	97%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:**	2/27/2018
		Date Received:	2/27/2018
Project:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV5-15'**		
Jones ID:	**F-0115-11**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:			
Benzene	ND	0.008	µg/L
Bromobenzene	ND	0.008	µg/L
Bromodichloromethane	ND	0.008	µg/L
Bromoform	ND	0.008	µg/L
n-Butylbenzene	ND	0.008	µg/L
sec-Butylbenzene	ND	0.008	µg/L
tert-Butylbenzene	ND	0.008	µg/L
Carbon tetrachloride	ND	0.008	µg/L
Chlorobenzene	ND	0.008	µg/L
Chloroform	ND	0.008	µg/L
2-Chlorotoluene	ND	0.008	µg/L
4-Chlorotoluene	ND	0.008	µg/L
Dibromochloromethane	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	0.008	µg/L
Dibromomethane	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	0.008	µg/L
Dichlorodifluoromethane	ND	0.008	µg/L
1,1-Dichloroethane	ND	0.008	µg/L
1,2-Dichloroethane	ND	0.008	µg/L
1,1-Dichloroethene	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	0.008	µg/L
1,2-Dichloropropane	ND	0.008	µg/L
1,3-Dichloropropane	ND	0.008	µg/L
2,2-Dichloropropane	ND	0.008	µg/L
1,1-Dichloropropene	ND	0.008	µg/L

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV5-15'**		
Jones ID:	**F-0115-11**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:			
cis-1,3-Dichloropropene	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	0.008	µg/L
Ethylbenzene	ND	0.008	µg/L
Freon 113	ND	0.040	µg/L
Hexachlorobutadiene	ND	0.008	µg/L
Isopropylbenzene	ND	0.008	µg/L
4-Isopropyltoluene	ND	0.008	µg/L
Methylene chloride	ND	0.008	µg/L
Naphthalene	ND	0.040	µg/L
n-Propylbenzene	ND	0.008	µg/L
Styrene	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	0.008	µg/L
Tetrachloroethene	**0.011**	0.008	µg/L
Toluene	**0.040**	0.008	µg/L
1,2,3-Trichlorobenzene	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	0.008	µg/L
Trichloroethene	ND	0.008	µg/L
Trichlorofluoromethane	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	0.008	µg/L
Vinyl chloride	ND	0.008	µg/L
m,p-Xylene	ND	0.008	µg/L
o-Xylene	ND	0.008	µg/L
MTBE	ND	0.040	µg/L
Ethyl-tert-butylether	ND	0.040	µg/L
Di-isopropylether	ND	0.040	µg/L
tert-amylmethylether	ND	0.040	µg/L
tert-Butylalcohol	ND	0.400	µg/L
Tracer:			
n-Pentane	ND	0.400	µg/L
n-Hexane	ND	0.400	µg/L
n-Heptane	ND	0.400	µg/L
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	105%	60 - 140	
Toluene-d_8	101%	60 - 140	
4-Bromofluorobenzene	98%	60 - 140	
	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:**	2/27/2018
		Date Received:	2/27/2018
Project:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**022818-F1MB1**	**022818-F1SB1**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:				
Benzene	ND	ND	0.008	µg/L
Bromobenzene	ND	ND	0.008	µg/L
Bromodichloromethane	ND	ND	0.008	µg/L
Bromoform	ND	ND	0.008	µg/L
n-Butylbenzene	ND	ND	0.008	µg/L
sec-Butylbenzene	ND	ND	0.008	µg/L
tert-Butylbenzene	ND	ND	0.008	µg/L
Carbon tetrachloride	ND	ND	0.008	µg/L
Chlorobenzene	ND	ND	0.008	µg/L
Chloroform	ND	ND	0.008	µg/L
2-Chlorotoluene	ND	ND	0.008	µg/L
4-Chlorotoluene	ND	ND	0.008	µg/L
Dibromochloromethane	ND	ND	0.008	µg/L
1,2-Dibromo-3-chloropropane	ND	ND	0.008	µg/L
1,2-Dibromoethane (EDB)	ND	ND	0.008	µg/L
Dibromomethane	ND	ND	0.008	µg/L
1,2- Dichlorobenzene	ND	ND	0.008	µg/L
1,3-Dichlorobenzene	ND	ND	0.008	µg/L
1,4-Dichlorobenzene	ND	ND	0.008	µg/L
Dichlorodifluoromethane	ND	ND	0.008	µg/L
1,1-Dichloroethane	ND	ND	0.008	µg/L
1,2-Dichloroethane	ND	ND	0.008	µg/L
1,1-Dichloroethene	ND	ND	0.008	µg/L
cis-1,2-Dichloroethene	ND	ND	0.008	µg/L
trans-1,2-Dichloroethene	ND	ND	0.008	µg/L
1,2-Dichloropropane	ND	ND	0.008	µg/L
1,3-Dichloropropane	ND	ND	0.008	µg/L
2,2-Dichloropropane	ND	ND	0.008	µg/L
1,1-Dichloropropene	ND	ND	0.008	µg/L

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**022818-F1MB1**	**022818-F1SB1**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	0.008	µg/L
trans-1,3-Dichloropropene	ND	ND	0.008	µg/L
Ethylbenzene	ND	ND	0.008	µg/L
Freon 113	ND	ND	0.040	µg/L
Hexachlorobutadiene	ND	ND	0.008	µg/L
Isopropylbenzene	ND	ND	0.008	µg/L
4-Isopropyltoluene	ND	ND	0.008	µg/L
Methylene chloride	ND	ND	0.008	µg/L
Naphthalene	ND	ND	0.040	µg/L
n-Propylbenzene	ND	ND	0.008	µg/L
Styrene	ND	ND	0.008	µg/L
1,1,1,2-Tetrachloroethane	ND	ND	0.008	µg/L
1,1,2,2-Tetrachloroethane	ND	ND	0.008	µg/L
Tetrachloroethene	ND	ND	0.008	µg/L
Toluene	ND	ND	0.008	µg/L
1,2,3-Trichlorobenzene	ND	ND	0.016	µg/L
1,2,4-Trichlorobenzene	ND	ND	0.016	µg/L
1,1,1-Trichloroethane	ND	ND	0.008	µg/L
1,1,2-Trichloroethane	ND	ND	0.008	µg/L
Trichloroethene	ND	ND	0.008	µg/L
Trichlorofluoromethane	ND	ND	0.008	µg/L
1,2,3-Trichloropropane	ND	ND	0.008	µg/L
1,2,4-Trimethylbenzene	ND	ND	0.008	µg/L
1,3,5-Trimethylbenzene	ND	ND	0.008	µg/L
Vinyl chloride	ND	ND	0.008	µg/L
m,p-Xylene	ND	ND	0.008	µg/L
o-Xylene	ND	ND	0.008	µg/L
MTBE	ND	ND	0.040	µg/L
Ethyl-tert-butylether	ND	ND	0.040	µg/L
Di-isopropylether	ND	ND	0.040	µg/L
tert-amylmethylether	ND	ND	0.040	µg/L
tert-Butylalcohol	ND	ND	0.400	µg/L
Tracer:				
n-Pentane	ND	ND	0.400	µg/L
n-Hexane	ND	ND	0.400	µg/L
n-Heptane	ND	ND	0.400	µg/L
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	104%	104%	60 - 140	
Toluene-d_8	102%	102%	60 - 140	
4-Bromofluorobenzene	95%	96%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	2/27/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0115 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	2/27/2018 2/27/2018
Project:	Reseda High School PEA	**Date Analyzed:**	2/27/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: F1-022718-F-0115

Jones ID:	**022718-F1LCS1**	**022718-F1LCSD1**			**022718-F1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	216%	230%	6.3%	60 - 140	181%	80 - 120
1,1-Dichloroethene	121%	133%	9.2%	60 - 140	121%	80 - 120
Cis-1,2-Dichloroethene	138%	150%	8.1%	70 - 130	131%	80 - 120
1,1,1-Trichloroethane	114%	125%	9.4%	70 - 130	106%	80 - 120
Benzene	128%	140%	9.1%	70 - 130	119%	80 - 120
Trichloroethene	128%	138%	7.9%	70 - 130	118%	80 - 120
Toluene	135%	144%	6.5%	70 - 130	124%	80 - 120
Tetrachloroethene	102%	108%	5.6%	70 - 130	95%	80 - 120
Chlorobenzene	130%	138%	6.1%	70 - 130	119%	80 - 120
Ethylbenzene	137%	145%	5.3%	70 - 130	125%	80 - 120
1,2,4 Trimethylbenzene	129%	133%	3.0%	70 - 130	122%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	101%	104%		60 - 140	99%	60 - 140
Toluene-d_8	103%	101%		60 - 140	103%	60 - 140
4-Bromofluorobenzene	104%	103%		60 - 140	101%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: Parsons
Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street, Reseda, CA
Email:
Phone:
Report To: Peter Shair
Sampler: Annalise O'Toole

Date: 2/27/2018
Client Project #: 450810

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

LAB USE ONLY
Jones Project # F-0115
Page 1 of 2
Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
□ Mobile Lab

Tracer
☒ n-pentane
☒ n-hexane
☒ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: UG/L

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV3-5'	3	1630	2/27/18	14:15	14:17	F-0115-01	~200	ANNALISE.1	M100.111	SG	X				<2	2	
AOC4-SV3-15'	3	1790	2/27/18	14:28	14:32	F-0115-02	~200	ANNALISE.2	M100.106	SG	X				8	2	
AOC4-SV1-5'	3	1630	2/27/18	14:45	14:49	F-0115-03	~200	ANNALISE.1	M100.111	SG	X				<2	2	
AOC4-SV1-5' REP	3	1630	2/27/18	15:02	15:07	F-0115-04	~200	ANNALISE.1	M100.111	SG	X				<2	2	
AOC4-SV1-15'	3	1790	2/27/18	15:17	15:25	F-0115-05	~200	ANNALISE.2	M100.106	SG	X				10	2	
AOC4-SV2-5'	3	1630	2/27/18	15:40	15:42	F-0115-06	~200	ANNALISE.1	M100.111	SG	X				4	2	
AOC4-SV2-15'	3	1790	2/27/18	15:55	16:01	F-0115-07	~200	ANNALISE.2	M100.106	SG	X				6	2	
AOC4-SV4-5'	3	1630	2/27/18	16:13	16:18	F-0115-08	~200	ANNALISE.1	M100.111	SG	X				<2	2	
AOC4-SV4-15'	3	1790	2/27/18	16:30	16:35	F-0115-09	~200	ANNALISE.2	M100.106	SG	X				10	2	
AOC4-SV5-5'	3	1630	2/27/18	16:48	16:52	F-0115-10	~200	ANNALISE.1	M100.111	SG	X				<2	2	

Relinquished By (Signature): Pete Shair — Printed Name: Pete Shair
Company: Parsons — Date: 2-27-18 — Time: 1726

Received By (Signature): A O'Toole — Printed Name: Annalise O'Toole
Company: Jones Environmental — Date: 2-27-18 — Time: 1726

Relinquished By (Signature) — Printed Name
Company — Date — Time

Received By Laboratory (Signature) — Printed Name
Company — Date — Time

20 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: Parsons
Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street, Reseda, CA
Email:
Phone:
Report To: Peter Shair
Sampler: Annalise O'Toole

Date: 2/27/2018
Client Project #: 450810

Purge Number: □ 1P □ 3P □ 7P □ 10P
Shut-In Test: Y / N

Report Options
EDD _____
EDF* - 10% Surcharge____
*Global ID _____

Turn Around Requested
- □ Immediate Attention
- □ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- □ Mobile Lab

Tracer
- □ n-pentane
- □ n-hexane
- □ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: □ Commercial □ Residential
Units:

LAB USE ONLY
Jones Project #: F-0115

Page 2 of 2

Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	Analysis Requested: EPA 8260B				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV5-15'	3	1790	2/27/18	17:05	17:10	F-0115-11	~200	ANNALISE.2	M100.106	SG	X				10	2	

Relinquished By (Signature): Peter Shair — Printed Name: Pete Shair
Company: Parsons — Date: 2-27-18 — Time: 1726

Received By (Signature): Annalise O'Toole — Printed Name: Annalise O'Toole
Company: Jones Environmental — Date: 2-27-18 — Time: 1726

Relinquished By (Signature) — Printed Name
Company — Date — Time

Received By Laboratory (Signature) — Printed Name
Company — Date — Time

2 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref.No:**	F-0124 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	4/21/2018 4/21/2018
Project Name:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval: _____

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0124 450810
Attn:	Justin King	**Date Sampled:**	4/21/2018
		Date Received:	4/21/2018
Project:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5.0**	**AOC4-SV1-15.0**	**AOC4-SV3-5.0**	**AOC4-SV3-5.0 REP**	**AOC4-SV3-15.0**		
Jones ID:	**F-0124-01**	**F-0124-02**	**F-0124-03**	**F-0124-04**	**F-0124-05**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	**12**	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	**14**	ND	ND	ND	8	µg/m3
tert-Butylbenzene	**9**	**12**	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	16	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	16	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	**8**	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5.0**	**AOC4-SV1-15.0**	**AOC4-SV3-5.0**	**AOC4-SV3-5.0 REP**	**AOC4-SV3-15.0**		
Jones ID:	**F-0124-01**	**F-0124-02**	**F-0124-03**	**F-0124-04**	**F-0124-05**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	20	µg/m3
Isopropylbenzene	ND	**11**	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	**10**	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**252**	**294**	**416**	**455**	**489**	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	**10**	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	**10**	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	**14**	**16**	ND	ND	ND	12	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	93%	95%	96%	93%	93%	60 - 140	
Toluene-d_8	101%	101%	102%	101%	102%	60 - 140	
4-Bromofluorobenzene	103%	102%	103%	100%	102%	60 - 140	
	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0124 450810
Attn:	Justin King	**Date Sampled:**	4/21/2018
		Date Received:	4/21/2018
Project:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV8-5.0**	**AOC4-SV8-15.0**	**AOC4-SV6-5.0**	**AOC4-SV6-15.0**	**AOC4-SV9-5.0**		
Jones ID:	**F-0124-06**	**F-0124-07**	**F-0124-08**	**F-0124-09**	**F-0124-10**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	16	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	16	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SV8-5.0	AOC4-SV8-15.0	AOC4-SV6-5.0	AOC4-SV6-15.0	AOC4-SV9-5.0		
Jones ID:	**F-0124-06**	**F-0124-07**	**F-0124-08**	**F-0124-09**	**F-0124-10**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	20	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**265**	**387**	**93**	**147**	**144**	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	12	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	93%	94%	94%	94%	94%	60 - 140	
Toluene-d_8	100%	101%	101%	101%	102%	60 - 140	
4-Bromofluorobenzene	101%	101%	101%	101%	102%	60 - 140	
	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0124 450810
Attn:	Justin King	**Date Sampled:**	4/21/2018
		Date Received:	4/21/2018
Project:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV9-15.0**	**AOC4-SV9-15.0 REP**	**AOC4-SV10-5.0**	**AOC4-SV10-15.0**		
Jones ID:	**F-0124-11**	**F-0124-12**	**F-0124-13**	**F-0124-14**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	16	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	16	µg/m3
Dibromochloromethane	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV9-15.0**	**AOC4-SV9--15.0 REP**	**AOC4-SV10-5.0**	**AOC4-SV10-15.0**		
Jones ID:	**F-0124-11**	**F-0124-12**	**F-0124-13**	**F-0124-14**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	20	µg/m3
Isopropylbenzene	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**146**	**150**	**473**	**465**	8	µg/m3
Toluene	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	12	µg/m3
o-Xylene	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	400	µg/m3
Tracer:						
n-Pentane	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	93%	95%	95%	94%	60 - 140	
Toluene-d_8	101%	100%	100%	101%	60 - 140	
4-Bromofluorobenzene	101%	101%	102%	101%	60 - 140	
	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124	F1-042118-F-0124		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0124 450810
Attn:	Justin King	**Date Sampled:**	4/21/2018
		Date Received:	4/21/2018
Project:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**042118-F1MB1**	**042118-F1SB1**	**Practical Quantitation Limit (MDL)**	**Units**
Analytes:				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	16	µg/m3
4-Chlorotoluene	ND	ND	16	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	042118-F1MB1	042118-F1SB1	Practical Quantitation Limit (MDL)	Units
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	20	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	12	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
Tracer:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	94%	94%	60 - 140	
Toluene-d_8	100%	100%	60 - 140	
4-Bromofluorobenzene	101%	99%	60 - 140	
	F1-042118-F-0124	F1-042118-F-0124		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	4/21/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0124 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	4/21/2018 4/21/2018
Project:	Reseda High School PEA	**Date Analyzed:**	4/21/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: F1-042118-F-0124

Jones ID:	**022718-F1LCS1**	**022718-F1LCSD1**			**022718-F1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	105%	102%	3.0%	60 - 140	129%	80 - 120
1,1-Dichloroethene	101%	94%	7.2%	60 - 140	111%	80 - 120
Cis-1,2-Dichloroethene	116%	107%	8.2%	70 - 130	115%	80 - 120
1,1,1-Trichloroethane	99%	93%	6.5%	70 - 130	99%	80 - 120
Benzene	116%	108%	6.9%	70 - 130	114%	80 - 120
Trichloroethene	112%	101%	10.3%	70 - 130	108%	80 - 120
Toluene	110%	104%	5.6%	70 - 130	108%	80 - 120
Tetrachloroethene	90%	84%	7.8%	70 - 130	87%	80 - 120
Chlorobenzene	119%	110%	8.1%	70 - 130	119%	80 - 120
Ethylbenzene	117%	106%	9.4%	70 - 130	113%	80 - 120
1,2,4 Trimethylbenzene	111%	105%	5.4%	70 - 130	114%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	95%	92%		60 - 140	92%	60 - 140
Toluene-d_8	101%	102%		60 - 140	103%	60 - 140
4-Bromofluorobenzene	106%	107%		60 - 140	104%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA , CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 4/21/2018
Client Project #: 450810

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested: □ Immediate Attention □ Rush 24 Hours □ Rush 48 Hours □ Rush 72 Hours □ Normal ☒ Mobile Lab

Tracer: ☒ n-pentane ☒ n-hexane ☒ n-heptane □ Helium □ 1,1-DFA □ _____

Reporting Limits Requested: □ Commercial ☒ Residential

Units: ug/m3

LAB USE ONLY
Jones Project # F-0124

Page 1 of 2

Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	Analysis Requested: EPA 8260B				Magnehelic Vacuum (in/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV1-5.0	3	1630	4/21/18	7:16	7:28	F-0124-01	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV1-15.0	3	1790	4/21/18	7:37	7:46	F-0124-02	~200	ANGELA.2	M100.106	SG	X				14	2	
AOC4-SV3-5.0	3	1630	4/21/18	7:57	8:03	F-0124-03	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV3-5.0 REP	3	1630	4/21/18	8:15	8:22	F-0124-04	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV3-15.0	3	1790	4/21/18	8:32	8:41	F-0124-05	~200	ANGELA.2	M100.106	SG	X				16	2	
AOC4-SV8-5.0	3	1630	4/21/18	8:51	8:58	F-0124-06	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV8-15.0	3	1790	4/21/18	9:09	9:16	F-0124-07	~200	ANGELA.2	M100.106	SG	X				20	2	
AOC4-SV6-5.0	3	1630	4/21/18	9:26	9:35	F-0124-08	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV6-15.0	3	1790	4/21/18	9:44	9:52	F-0124-09	~200	ANGELA.2	M100.106	SG	X				24	2	
AOC4-SV9-5.0	3	2810	4/21/18	10:01	10:11	F-0124-10	~200	ANNALISE.1	M100.101	SG	X				<2	2	

Relinquished By (Signature)	Printed Name: Justin King	Received By (Signature)	Printed Name: ANNALISE O'TOOLE
Company: Parsons	Date: 4-21-18 Time: 1135	Company: JONES ENVIRONMENTAL	Date: 4-21-18 Time: 1135
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name
Company	Date Time	Company	Date Time

20 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA , CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 4/21/2018
Client Project #: 450810

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID ____

LAB USE ONLY
Jones Project #: F-0124
Page 2 of 2
Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
☒ Mobile Lab

Tracer:
☒ n-pentane
☒ n-hexane
☒ n-heptane
□ Helium
□ 1,1-DFA
□ ____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: ug/m3

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (in/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV9-15.0	3	2980	4/21/18	10:21	10:29	F-0124-11	~200	ANGELA.2	M100.106	SG	X				<2	2	
AOC4-SV9--15.0 REP	3	2980	4/21/18	10:40	10:48	F-0124-12	~200	ANGELA.2	M100.106	SG	X				<2	2	
AOC4-SV10-5.0	3	2810	4/21/18	10:59	11:06	F-0124-13	~200	ANNALISE.1	M100.101	SG	X				<2	2	
AOC4-SV10-15.0	3	2980	4/21/18	11:16	11:25	F-0124-14	~200	ANGELA.2	M100.106	SG	X				<2	2	

Relinquished By (Signature): [signature] **Printed Name:** Justin King
Company: Parsons **Date:** 4-21-18 **Time:** 1135

Received By (Signature): [signature] **Printed Name:** ANNALISE O'TOOLE
Company: JONES ENVIRONMENTAL **Date:** 4-21-18 **Time:** 1135

8 Total Number of Containers

Relinquished By (Signature): **Printed Name:**
Company: **Date:** **Time:**

Received By Laboratory (Signature): **Printed Name:**
Company: **Date:** **Time:**

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	5/22/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	F-0134 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	5/22/2018 5/22/2018
Project Name:	Reseda High School PEA	**Date Analyzed:**	5/22/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Steve Jones, Ph.D.
Laboratory Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	5/22/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0134 450810
Attn:	Justin King	**Date Sampled:**	5/22/2018
		Date Received:	5/22/2018
Project:	Reseda High School PEA	**Date Analyzed:**	5/22/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV11-5**	**AOC4-SV11-15**	**AOC4-SS1**	**AOC4-SS2**	**AOC4-SS3**		
Jones ID:	**F-0134-01**	**F-0134-02**	**F-0134-03**	**F-0134-04**	**F-0134-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	**28**	ND	**209**	**38**	**80**	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	**ND**	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV11-5**	**AOC4-SV11-15**	**AOC4-SS1**	**AOC4-SS2**	**AOC4-SS3**		
Jones ID:	**F-0134-01**	**F-0134-02**	**F-0134-03**	**F-0134-04**	**F-0134-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	**25**	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**296**	**292**	**144**	**446**	**523**	8	µg/m3
Toluene	**32**	ND	**198**	**45**	**62**	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	**74**	ND	ND	8	µg/m3
o-Xylene	ND	ND	**22**	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	97%	101%	94%	100%	98%	60 - 140	
Toluene-d_8	99%	96%	99%	99%	99%	60 - 140	
4-Bromofluorobenzene	91%	88%	93%	92%	90%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	5/22/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0134 450810
Attn:	Justin King	**Date Sampled:**	5/22/2018
		Date Received:	5/22/2018
Project:	Reseda High School PEA	**Date Analyzed:**	5/22/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV13-5**	**AOC4-SV13-5 REP**	**AOC4-SV13-15**	**AOC4-SV12-5**	**AOC4-SV12-15**		
Jones ID:	**F-0134-06**	**F-0134-07**	**F-0134-08**	**F-0134-09**	**F-0134-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	**16**	**12**	ND	ND	**98**	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	**8**	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SV13-5	AOC4-SV13-5 REP	AOC4-SV13-15	AOC4-SV12-5	AOC4-SV12-15		
Jones ID:	**F-0134-06**	**F-0134-07**	**F-0134-08**	**F-0134-09**	**F-0134-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**17**	**18**	**35**	**105**	**183**	8	µg/m3
Toluene	**16**	**14**	ND	ND	**76**	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	99%	101%	102%	102%	97%	60 - 140	
Toluene-d_8	98%	98%	96%	97%	96%	60 - 140	
4-Bromofluorobenzene	91%	89%	91%	89%	91%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	5/22/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0134 450810
Attn:	Justin King	**Date Sampled:**	5/22/2018
		Date Received:	5/22/2018
Project:	Reseda High School PEA	**Date Analyzed:**	5/22/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**052218-F1MB1**	**052218-F1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**052218-F1MB1**	**052218-F1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	16	µg/m3
1,2,4-Trichlorobenzene	ND	ND	16	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	8	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
Tracer:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	101%	100%	60 - 140	
Toluene-d_8	96%	99%	60 - 140	
4-Bromofluorobenzene	85%	89%	60 - 140	
	F1-022718-F-0115	F1-022718-F-0115		

ND= Not Detected

J Flag = Value less than PQL but greater than MDL

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	5/22/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	F-0134 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	5/22/2018 5/22/2018
Project:	Reseda High School PEA	**Date Analyzed:**	5/22/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: F1-022718-F-0115

Jones ID:	**022718-F1LCS1**	**022718-F1LCSD1**			**022718-F1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	91%	91%	0.5%	60 - 140	97%	80 - 120
1,1-Dichloroethene	102%	105%	2.5%	60 - 140	97%	80 - 120
Cis-1,2-Dichloroethene	119%	123%	3.1%	70 - 130	102%	80 - 120
1,1,1-Trichloroethane	99%	103%	3.5%	70 - 130	83%	80 - 120
Benzene	125%	127%	1.9%	70 - 130	104%	80 - 120
Trichloroethene	121%	124%	1.7%	70 - 130	107%	80 - 120
Toluene	125%	124%	0.9%	70 - 130	81%	80 - 120
Tetrachloroethene	103%	101%	1.4%	70 - 130	87%	80 - 120
Chlorobenzene	125%	124%	0.5%	70 - 130	105%	80 - 120
Ethylbenzene	120%	118%	1.1%	70 - 130	102%	80 - 120
1,2,4 Trimethylbenzene	116%	120%	3.7%	70 - 130	103%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	92%	94%		60 - 140	89%	60 - 140
Toluene-d_8	101%	98%		60 - 140	104%	60 - 140
4-Bromofluorobenzene	104%	105%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA, CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 5/22/2018
Client Project #: 450810

Purge Number: □ 1P □ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
☒ Mobile Lab

Tracer:
□ n-pentane
□ n-hexane
□ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: ug/m3

LAB USE ONLY
Jones Project #: F-0134

Page 1 of 2

Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV11-5	3	1630	5/22/18	14:27	14:31	F-0134-01	~200	SKC WEST RENTAL	M100.105	SG	X				<2	2	
AOC4-SV11-15	3	1790	5/22/18	14:44	14:48	F-0134-02	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	
AOC4-SS1	3	125	5/22/18	14:58	15:07	F-0134-03	~200	SKC WEST RENTAL	M100.105	SG	X				12	2	
AOC4-SS2	3	125	5/22/18	15:36	15:43	F-0134-04	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	
AOC4-SS3	3	125	5/22/18	15:55	16:02	F-0134-05	~200	SKC WEST RENTAL	M100.105	SG	X				<2	2	
AOC4-SV13-5	3	1630	5/22/18	16:16	16:20	F-0134-06	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	
AOC4-SV13-5 REP	3	1630	5/22/18	16:28	16:38	F-0134-07	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	
AOC4-SV13-15	3	1790	5/22/18	16:48	16:56	F-0134-08	~200	SKC WEST RENTAL	M100.105	SG	X				<2	2	
AOC4-SV12-5	3	1630	5/22/18	17:08	17:14	F-0134-09	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	
AOC4-SV12-15	3	1790	5/22/18	17:26	17:32	F-0134-10	~200	SKC WEST RENTAL	M100.105	SG	X				<2	2	

Relinquished By (Signature)	Printed Name: Carrie Cozier	Received By (Signature)	Printed Name: Annalise O'Toole
Company: Parsons	Date: 5/22/18 Time: 1738	Company: Jones Environmental	Date: 5-22-18 Time: 1738
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name
Company	Date Time	Company	Date Time

20 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA, CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 5/22/2018
Client Project #: 450810

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
☒ Mobile Lab

Tracer:
□ n-pentane
☒ n-hexane
□ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: ug/m3

LAB USE ONLY
Jones Project #: F-0134

Page 2 of 2

Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SS2 REP	3	125	5/22/18	15:20	15:25	F-0134	~200	SKC WEST RENTAL	TSS 118007	SG	X				<2	2	

Relinquished By (Signature): Carrie Cozier **Printed Name:** Carrie Cozier
Company: Parsons **Date:** 5/22/18 **Time:** 1738

Received By (Signature): Annalise O'Toole **Printed Name:** Annalise O'Toole
Company: Jones Environmental **Date:** 5-22-18 **Time:** 1738

Relinquished By (Signature): **Printed Name:**
Company: **Date:** **Time:**

Received By Laboratory (Signature): **Printed Name:**
Company: **Date:** **Time:**

2 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

APPENDIX F

UCL Statistics for Uncensored Full Data Sets

User Selected Options	
Date/Time of Computation	ProUCL 5.16/29/2018 1:14:54 PM
From File	WorkSheet.xls
Full Precision	OFF
Confidence Coefficient	95%
umber of Bootstrap Operations	2000

Arsenic; 0-0.5 ft bgs

General Statistics

Total Number of Observations	220	Number of Distinct Observations	75
		Number of Missing Observations	0
Minimum	1.9	Mean	10.39
Maximum	33	Median	8
SD	6.233	Std. Error of Mean	0.42
Coefficient of Variation	0.6	Skewness	1.698

Normal GOF Test

Shapiro Wilk Test Statistic	0.81	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.193	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0602	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	11.08	95% Adjusted-CLT UCL (Chen-1995)	11.13
		95% Modified-t UCL (Johnson-1978)	11.09

Gamma GOF Test

A-D Test Statistic	5.171	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.758	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.132	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0617	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.629	k star (bias corrected MLE)	3.583
Theta hat (MLE)	2.861	Theta star (bias corrected MLE)	2.898
nu hat (MLE)	1597	nu star (bias corrected)	1576
MLE Mean (bias corrected)	10.39	MLE Sd (bias corrected)	5.486
		Approximate Chi Square Value (0.05)	1485
Adjusted Level of Significance	0.0489	Adjusted Chi Square Value	1485

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	11.02	95% Adjusted Gamma UCL (use when n<50)	11.03

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.962	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	2.6838E-4	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.0975	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0602	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.642	Mean of logged Data	2.196
Maximum of Logged Data	3.497	SD of logged Data	0.522

Assuming Lognormal Distribution

95% H-UCL	10.98	90% Chebyshev (MVUE) UCL	11.45
95% Chebyshev (MVUE) UCL	11.98	97.5% Chebyshev (MVUE) UCL	12.7
99% Chebyshev (MVUE) UCL	14.13		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	11.08	95% Jackknife UCL	11.08
95% Standard Bootstrap UCL	11.07	95% Bootstrap-t UCL	11.15
95% Hall's Bootstrap UCL	11.17	95% Percentile Bootstrap UCL	11.06
95% BCA Bootstrap UCL	11.13		
90% Chebyshev(Mean, Sd) UCL	11.65	95% Chebyshev(Mean, Sd) UCL	12.22
97.5% Chebyshev(Mean, Sd) UCL	13.01	99% Chebyshev(Mean, Sd) UCL	14.57

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL 12.22

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Arsenic; 0-1.5 ft bgs

General Statistics

Total Number of Observations	282	Number of Distinct Observations	77
		Number of Missing Observations	0
Minimum	1.9	Mean	10.22
Maximum	37	Median	8.05
SD	6.072	Std. Error of Mean	0.362
Coefficient of Variation	0.594	Skewness	1.948

Normal GOF Test

Shapiro Wilk Test Statistic	0.788	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.205	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0532	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	10.82	95% Adjusted-CLT UCL (Chen-1995)	10.86
		95% Modified-t UCL (Johnson-1978)	10.83

Gamma GOF Test

A-D Test Statistic	8.116	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.758	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.153	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0544	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	3.903	k star (bias corrected MLE)	3.864
Theta hat (MLE)	2.62	Theta star (bias corrected MLE)	2.646
nu hat (MLE)	2201	nu star (bias corrected)	2179
MLE Mean (bias corrected)	10.22	MLE Sd (bias corrected)	5.201
		Approximate Chi Square Value (0.05)	2072
Adjusted Level of Significance	0.0491	Adjusted Chi Square Value	2071

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	10.75	95% Adjusted Gamma UCL (use when n<50)	10.76

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.955	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	4.4247E-8	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.117	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0532	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.642	Mean of logged Data	2.191
Maximum of Logged Data	3.611	SD of logged Data	0.496

Assuming Lognormal Distribution

95% H-UCL	10.67	90% Chebyshev (MVUE) UCL	11.06
95% Chebyshev (MVUE) UCL	11.49	97.5% Chebyshev (MVUE) UCL	12.08
99% Chebyshev (MVUE) UCL	13.26		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	10.82	95% Jackknife UCL	10.82
95% Standard Bootstrap UCL	10.82	95% Bootstrap-t UCL	10.88
95% Hall's Bootstrap UCL	10.85	95% Percentile Bootstrap UCL	10.85
95% BCA Bootstrap UCL	10.88		
90% Chebyshev(Mean, Sd) UCL	11.31	95% Chebyshev(Mean, Sd) UCL	11.8
97.5% Chebyshev(Mean, Sd) UCL	12.48	99% Chebyshev(Mean, Sd) UCL	13.82

Suggested UCL to Use

95% Student's-t UCL	10.82	or 95% Modified-t UCL	10.83

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Arsenic; 0-2.5 ft bgs

General Statistics

Total Number of Observations	336	Number of Distinct Observations	82
		Number of Missing Observations	0
Minimum	1.9	Mean	9.883
Maximum	37	Median	7.9
SD	5.765	Std. Error of Mean	0.315
Coefficient of Variation	0.583	Skewness	2.063

Normal GOF Test

Shapiro Wilk Test Statistic	0.781	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.203	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0487	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	10.4	95% Adjusted-CLT UCL (Chen-1995)	10.44
		95% Modified-t UCL (Johnson-1978)	10.41

Gamma GOF Test

A-D Test Statistic	9.68	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.759	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.148	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0498	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.109	k star (bias corrected MLE)	4.075
Theta hat (MLE)	2.405	Theta star (bias corrected MLE)	2.426
nu hat (MLE)	2762	nu star (bias corrected)	2738
MLE Mean (bias corrected)	9.883	MLE Sd (bias corrected)	4.896
		Approximate Chi Square Value (0.05)	2618
Adjusted Level of Significance	0.0493	Adjusted Chi Square Value	2617

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	10.34	95% Adjusted Gamma UCL (use when n<50)	10.34

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.954	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	2.078E-10	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.112	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0487	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.642	Mean of logged Data	2.164
Maximum of Logged Data	3.611	SD of logged Data	0.481

Assuming Lognormal Distribution

95% H-UCL	10.24	90% Chebyshev (MVUE) UCL	10.58
95% Chebyshev (MVUE) UCL	10.95	97.5% Chebyshev (MVUE) UCL	11.46
99% Chebyshev (MVUE) UCL	12.46		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	10.4	95% Jackknife UCL	10.4
95% Standard Bootstrap UCL	10.41	95% Bootstrap-t UCL	10.43
95% Hall's Bootstrap UCL	10.47	95% Percentile Bootstrap UCL	10.39
95% BCA Bootstrap UCL	10.45		
90% Chebyshev(Mean, Sd) UCL	10.83	95% Chebyshev(Mean, Sd) UCL	11.25
97.5% Chebyshev(Mean, Sd) UCL	11.85	99% Chebyshev(Mean, Sd) UCL	13.01

Suggested UCL to Use

95% Student's-t UCL	10.4	or 95% Modified-t UCL	10.41

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Arsenic; 0-3.5 ft bgs

General Statistics

Total Number of Observations	343	Number of Distinct Observations	84
		Number of Missing Observations	0
Minimum	1.9	Mean	9.857
Maximum	37	Median	7.9
SD	5.711	Std. Error of Mean	0.308
Coefficient of Variation	0.579	Skewness	2.091

Normal GOF Test

Shapiro Wilk Test Statistic	0.779	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.202	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0482	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	10.37	95% Adjusted-CLT UCL (Chen-1995)	10.4
		95% Modified-t UCL (Johnson-1978)	10.37

Gamma GOF Test

A-D Test Statistic	9.891	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.758	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.143	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0493	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	4.18	k star (bias corrected MLE)	4.145
Theta hat (MLE)	2.358	Theta star (bias corrected MLE)	2.378
nu hat (MLE)	2867	nu star (bias corrected)	2843
MLE Mean (bias corrected)	9.857	MLE Sd (bias corrected)	4.842
		Approximate Chi Square Value (0.05)	2721
Adjusted Level of Significance	0.0493	Adjusted Chi Square Value	2720

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	10.3	95% Adjusted Gamma UCL (use when n<50)	10.3

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.954	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	1.011E-10	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.107	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0482	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	0.642	Mean of logged Data	2.164
Maximum of Logged Data	3.611	SD of logged Data	0.476

Assuming Lognormal Distribution

95% H-UCL	10.21	90% Chebyshev (MVUE) UCL	10.54
95% Chebyshev (MVUE) UCL	10.9	97.5% Chebyshev (MVUE) UCL	11.4
99% Chebyshev (MVUE) UCL	12.37		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	10.36	95% Jackknife UCL	10.37
95% Standard Bootstrap UCL	10.37	95% Bootstrap-t UCL	10.41
95% Hall's Bootstrap UCL	10.38	95% Percentile Bootstrap UCL	10.38
95% BCA Bootstrap UCL	10.43		
90% Chebyshev(Mean, Sd) UCL	10.78	95% Chebyshev(Mean, Sd) UCL	11.2
97.5% Chebyshev(Mean, Sd) UCL	11.78	99% Chebyshev(Mean, Sd) UCL	12.93

Suggested UCL to Use

95% Student's-t UCL	10.37	or 95% Modified-t UCL	10.37

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead; 0-0.5 ft bgs

General Statistics

Total Number of Observations	142	Number of Distinct Observations	84
		Number of Missing Observations	0
Minimum	3.7	Mean	21.83
Maximum	170	Median	13
SD	23.77	Std. Error of Mean	1.994
Coefficient of Variation	1.089	Skewness	3.154

Normal GOF Test

Shapiro Wilk Test Statistic	0.682	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.223	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.0747	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	25.13	95% Adjusted-CLT UCL (Chen-1995)	25.68
		95% Modified-t UCL (Johnson-1978)	25.22

Gamma GOF Test

A-D Test Statistic	3.838	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.771	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.144	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0801	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.479	k star (bias corrected MLE)	1.452
Theta hat (MLE)	14.76	Theta star (bias corrected MLE)	15.03
nu hat (MLE)	420	nu star (bias corrected)	412.5
MLE Mean (bias corrected)	21.83	MLE Sd (bias corrected)	18.11
		Approximate Chi Square Value (0.05)	366.4
Adjusted Level of Significance	0.0483	Adjusted Chi Square Value	366

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	24.58	95% Adjusted Gamma UCL (use when n<50)	24.61

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.947	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	5.2125E-5	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.112	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.0747	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.308	Mean of logged Data	2.709
Maximum of Logged Data	5.136	SD of logged Data	0.823

Assuming Lognormal Distribution

95% H-UCL	24.26	90% Chebyshev (MVUE) UCL	25.96
95% Chebyshev (MVUE) UCL	28.21	97.5% Chebyshev (MVUE) UCL	31.34
99% Chebyshev (MVUE) UCL	37.49		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	25.11	95% Jackknife UCL	25.13
95% Standard Bootstrap UCL	25.09	95% Bootstrap-t UCL	26.01
95% Hall's Bootstrap UCL	26	95% Percentile Bootstrap UCL	25.19
95% BCA Bootstrap UCL	25.59		
90% Chebyshev(Mean, Sd) UCL	27.81	95% Chebyshev(Mean, Sd) UCL	30.52
97.5% Chebyshev(Mean, Sd) UCL	34.29	99% Chebyshev(Mean, Sd) UCL	41.68

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL	30.52

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead; 0-1.5 ft bgs

General Statistics

Total Number of Observations	148	Number of Distinct Observations	85
		Number of Missing Observations	0
Minimum	3.7	Mean	21.57
Maximum	170	Median	13
SD	23.44	Std. Error of Mean	1.927
Coefficient of Variation	1.087	Skewness	3.183

Normal GOF Test

Shapiro Wilk Test Statistic	0.681	**Shapiro Wilk GOF Test**
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level
Lilliefors Test Statistic	0.223	**Lilliefors GOF Test**
5% Lilliefors Critical Value	0.0732	Data Not Normal at 5% Significance Level

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	24.76	95% Adjusted-CLT UCL (Chen-1995)	25.28
		95% Modified-t UCL (Johnson-1978)	24.84

Gamma GOF Test

A-D Test Statistic	4.076	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.771	Data Not Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.146	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.0785	Data Not Gamma Distributed at 5% Significance Level

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.488	k star (bias corrected MLE)	1.463
Theta hat (MLE)	14.49	Theta star (bias corrected MLE)	14.75
nu hat (MLE)	440.5	nu star (bias corrected)	433
MLE Mean (bias corrected)	21.57	MLE Sd (bias corrected)	17.84
		Approximate Chi Square Value (0.05)	385.7
Adjusted Level of Significance	0.0484	Adjusted Chi Square Value	385.3

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	24.21	95% Adjusted Gamma UCL (use when n<50)	24.24

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.946	**Shapiro Wilk Lognormal GOF Test**
5% Shapiro Wilk P Value	1.7337E-5	Data Not Lognormal at 5% Significance Level
Lilliefors Test Statistic	0.112	**Lilliefors Lognormal GOF Test**
5% Lilliefors Critical Value	0.0732	Data Not Lognormal at 5% Significance Level

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.308	Mean of logged Data	2.699
Maximum of Logged Data	5.136	SD of logged Data	0.819

Assuming Lognormal Distribution

95% H-UCL	23.87	90% Chebyshev (MVUE) UCL	25.52
95% Chebyshev (MVUE) UCL	27.69	97.5% Chebyshev (MVUE) UCL	30.7
99% Chebyshev (MVUE) UCL	36.62		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	24.74	95% Jackknife UCL	24.76
95% Standard Bootstrap UCL	24.71	95% Bootstrap-t UCL	25.67
95% Hall's Bootstrap UCL	25.73	95% Percentile Bootstrap UCL	24.87
95% BCA Bootstrap UCL	25.1		
90% Chebyshev(Mean, Sd) UCL	27.35	95% Chebyshev(Mean, Sd) UCL	29.97

97.5% Chebyshev(Mean, Sd) UCL	33.6	99% Chebyshev(Mean, Sd) UCL	40.74

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL 29.97

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

Lead; 0-2.5 ft bgs

General Statistics

Total Number of Observations	153	Number of Distinct Observations	85
		Number of Missing Observations	0
Minimum	3.7	Mean	21.39
Maximum	170	Median	13
SD	23.15	Std. Error of Mean	1.871
Coefficient of Variation	1.082	Skewness	3.215

Normal GOF Test

Shapiro Wilk Test Statistic	0.68	**Shapiro Wilk GOF Test**	
5% Shapiro Wilk P Value	0	Data Not Normal at 5% Significance Level	
Lilliefors Test Statistic	0.222	**Lilliefors GOF Test**	
5% Lilliefors Critical Value	0.072	Data Not Normal at 5% Significance Level	

Data Not Normal at 5% Significance Level

Assuming Normal Distribution

95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	24.49	95% Adjusted-CLT UCL (Chen-1995)	24.99
		95% Modified-t UCL (Johnson-1978)	24.57

Gamma GOF Test

A-D Test Statistic	4.261	**Anderson-Darling Gamma GOF Test**	
5% A-D Critical Value	0.771	Data Not Gamma Distributed at 5% Significance Level	
K-S Test Statistic	0.146	**Kolmogorov-Smirnov Gamma GOF Test**	
5% K-S Critical Value	0.0772	Data Not Gamma Distributed at 5% Significance Level	

Data Not Gamma Distributed at 5% Significance Level

Gamma Statistics

k hat (MLE)	1.502	k star (bias corrected MLE)	1.477
Theta hat (MLE)	14.24	Theta star (bias corrected MLE)	14.48
nu hat (MLE)	459.7	nu star (bias corrected)	452
MLE Mean (bias corrected)	21.39	MLE Sd (bias corrected)	17.6
		Approximate Chi Square Value (0.05)	403.7
Adjusted Level of Significance	0.0484	Adjusted Chi Square Value	403.3

Assuming Gamma Distribution

95% Approximate Gamma UCL (use when n>=50))	23.95	95% Adjusted Gamma UCL (use when n<50)	23.97

Lognormal GOF Test

Shapiro Wilk Test Statistic	0.944	**Shapiro Wilk Lognormal GOF Test**	
5% Shapiro Wilk P Value	5.8731E-6	Data Not Lognormal at 5% Significance Level	
Lilliefors Test Statistic	0.116	**Lilliefors Lognormal GOF Test**	
5% Lilliefors Critical Value	0.072	Data Not Lognormal at 5% Significance Level	

Data Not Lognormal at 5% Significance Level

Lognormal Statistics

Minimum of Logged Data	1.308	Mean of logged Data	2.694
Maximum of Logged Data	5.136	SD of logged Data	0.815

Assuming Lognormal Distribution

95% H-UCL	23.6	90% Chebyshev (MVUE) UCL	25.2
95% Chebyshev (MVUE) UCL	27.31	97.5% Chebyshev (MVUE) UCL	30.23
99% Chebyshev (MVUE) UCL	35.96		

Nonparametric Distribution Free UCL Statistics

Data do not follow a Discernible Distribution (0.05)

Nonparametric Distribution Free UCLs

95% CLT UCL	24.47	95% Jackknife UCL	24.49
95% Standard Bootstrap UCL	24.43	95% Bootstrap-t UCL	25.2
95% Hall's Bootstrap UCL	25.22	95% Percentile Bootstrap UCL	24.57
95% BCA Bootstrap UCL	25.13		
90% Chebyshev(Mean, Sd) UCL	27	95% Chebyshev(Mean, Sd) UCL	29.55
97.5% Chebyshev(Mean, Sd) UCL	33.07	99% Chebyshev(Mean, Sd) UCL	40.01

Suggested UCL to Use

95% Chebyshev (Mean, Sd) UCL	29.55

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness.
These recommendations are based upon the results of the simulation studies summarized in Singh, Maichle, and Lee (2006).
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

APPENDIX I

Supplemental Preliminary Endangerment Assessment-Equivalent Report

SUPPLEMENTAL PRELIMINARY ENDANGERMENT ASSESSMENT – EQUIVALENT REPORT

RESEDA HIGH SCHOOL COMPREHENSIVE MODERNIZATION PROJECT
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA 91335

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

February 15, 2019

Prepared by

PARSONS 100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

SUPPLEMENTAL PRELIMINARY ENDANGERMENT ASSESSMENT - EQUIVALENT REPORT
RESEDA HIGH SCHOOL
18230 KITTRIDGE STREET
RESEDA, CALIFORNIA 91335

Prepared for

Los Angeles Unified School District
Office of Environmental Health and Safety
333 South Beaudry Avenue, 21st Floor
Los Angeles, California 90017

February 15, 2019

Prepared by

PARSONS
100 WEST WALNUT STREET • PASADENA • CALIFORNIA 91124

Prepared by:

Justin King
Project Manager

Date: 2-15-19

Reviewed by:

Peter Shair, P.G.
Project Geologist

PROFESSIONAL GEOLOGIST
PETER B. SHAIR
NO. 8362
5/31/19
STATE OF CALIFORNIA

Date: 2-15-19

TABLE OF CONTENTS

Executive Summary v
1.0 Introduction 1
2.0 Sampling Activities 1
2.1 Sampling Strategy 2
2.2 Preliminary Screening Levels 2
2.3 Pre-Field Activities 3
2.4 Field Activities 3
2.5 Equipment Decontamination 7
2.6 Investigative Derived Waste 7
2.7 Building Inventory 8
3.0 Results 9
3.1 Introduction 9
3.2 Soil Analytical Results 9
3.3 Soil Vapor Sampling Results 10
3.4 Delineation of Impacts in Soil 12
3.5 Delineation of Impacts in Soil Vapor 12
4.0 Field Variances 14
5.0 Human Health Screening Evaluation 15
5.1 Soils 15
5.2 Soil Vapor/Sub-Slab Soil Vapor/Indoor Air 15
6.0 Conclusions and Recommendations 17
6.1 Conclusions 17
6.2 Recommendations 18
7.0 References 19

TABLES

TABLE 1 ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
TABLE 2 ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
TABLE 3 ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
TABLE 4 SOIL VAPOR PROBE SAMPLING ANALYTICAL RESULTS
TABLE 5 SUB-SLAB VAPOR PIN SAMPLING ANALYTICAL RESULTS
TABLE 6 INDOOR/OUTDOOR AIR ANALYTICAL RESULTS

FIGURES

FIGURE 1 SITE LOCATION MAP
FIGURE 2 BUILDING LOCATIONS
FIGURE 3 SOIL VAPOR AND SUB-SLAB SAMPLING LOCATIONS
FIGURE 4 INDOOR/OUTDOOR AIR AND SUB-SLAB SAMPLING LOCATIONS
FIGURE 5 TETRACHLOROETHENE IN SOIL VAPOR AT 5 FT BGS
FIGURE 6 TETRACHLOROETHENE IN SOIL VAPOR AT 15 FT BGS

APPENDICES

APPENDIX A BORING LOGS
APPENDIX B WIND DIRECTIONS
APPENDIX C WASTE MANIFESTS
APPENDIX D BUILDING INVENTORY
APPENDIX E SOIL ANALYTICAL LABORATORY REPORTS
APPENDIX F SOIL VAPOR AND INDOOR / OUTDOOR ANALYTICAL LABORATORY REPORTS

ACRONYMS

AOCs	Areas of Concern
bgs	below ground surface
BESI	Belshire Environmental Services, Inc.
CMP	Comprehensive Modernization Project
cc/min	cubic centimeters per minute
CoC	Chain of Custody
COC	Chemical of Concern
DRO	diesel-range organics
DTSC	Department of Toxic Substances Control
ELAP	Environmental Laboratory Accreditation Program
EPA	United States Environmental Protection Agency
GRO	gasoline-range organics
HHRA	Human Health Risk Assessment
HHSE	Human Health Screening Evaluation
HVAC	heating, ventilation and air conditioning
ft	feet
IDW	investigation-derived waste
LAUSD	Los Angeles Unified School District
mg/kg	milligrams per kilogram
mL/min	milliliters per minute
ORO	oil-range organics
PCBs	Polychlorinated biphenyls
PCE	tetrachloroethene
PEA-E	Preliminary Endangerment Assessment – Equivalent
PID	Photoionization Detector
PSL	Preliminary Screening Level
QA/QC	quality assurance/quality control
RAW	Removal Action Workplan
RECs	Recognized Environmental Conditions
Report	Preliminary Endangerment Assessment – Equivalent Report
RSL	USEPA Regional Screening Level
SFBRWQCB	San Francisco Bay Regional Water Quality Control Board
Site	Reseda High School
SL	Screening Level
TPH	Total Petroleum Hydrocarbons
USEPA	United States Environmental Protection Agency
$\mu g/m^3$	micrograms per cubic meter
VOCs	volatile organic compounds

EXECUTIVE SUMMARY

This document presents the results of a *Supplemental Preliminary Endangerment Assessment – Equivalent* (PEA-E) *Report* (Report) conducted for Los Angeles Unified School District's (LAUSD) Reseda High School (Site) in support of a Comprehensive Modernization Project (CMP). This Report presents a summary of Supplemental PEA-E activities, which includes several sampling and analyses events, performed in support of the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California (**Figure 1**).

Initial PEA-E activities were conducted between December 2017 and May 2018 to assess environmental conditions at selected areas within the CMP footprint prior to LAUSD's proposed demolition, modernization and construction activities. The Site background and environmental setting details are presented in the initial PEA-E Report (Parsons 2018a). The Supplemental PEA-E activities were conducted between September 2018 and January 2019 to further delineate soil vapor impacts in and around the Industrial Arts Building (**Figure 2**). The Supplemental PEA-E was conducted per the Draft Indoor Air Sampling Workplan (Parsons, 2018b) that was verbally approved by LAUSD on October 8, 2018. Various additional sampling activities described in this document were requested by LAUSD as the work progressed.

The following conclusions were derived from the supplemental investigation conducted at Reseda High School for soil, soil vapor and indoor air. Previous recommendations regarding the presence of lead and arsenic in soil above their respective PSLs are documented in the PEA-E Report (Parsons, 2018a).

Soil

- Soil was sampled for PCBs, TPH, and VOCs during the supplemental investigation in AOC4. There were no detections above the PSLs, which is consistent with the original investigation results (Parsons, 2018a). Therefore, PCBs, TPH, and VOCs are not considered COCs in soil.

Soil Vapor

- A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes during the supplemental investigation on September 5 and 19, October 9, 2018 and January 3, 2019 to further characterize soil vapor concentrations in AOC4. Select probes were sampled in multiple events to provide additional data for decision-making purposes. LAUSD Office of Environmental Health and Safety (OEHS) requested that the analytical data now be compared against the DTSC's future PSLs. PCE was detected above the future PSL (15 µg/m^3) at 31 sample (either 5 or 15 ft bgs) locations. In the 41 vapor samples, PCE concentrations ranged from 1.7 µg/m^3 (AOC4-SV17-5) to 1,440 µg/m^3 (AOC4-SV10-5). The future PSL for naphthalene is 2.8 µg/m^3. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from 3.0 µg/m^3 (AOC4-SV16-

5) to 774 µg/m^3 (AOC4-SV8-15). 1,2,4-trimethylbenzene exceeded the future PSL concentration (2,100 µg/m^3) in one (AOC4-SV8-15) of the 41 samples, at 2,440 µg/m^3. Benzene exceeded the future PSL concentration (3.2 µg/m^3) in one (AOC4-SV8-15) of the 41 samples, at 7 µg/m^3. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective PSLs.

- Based on the multiple soil vapor sampling events from previously installed and more recently installed soil vapor probes, vapor-phase VOCs are considered laterally delineated but not vertically delineated (**Figure 5 and Figure 6**). VOCs, including PCE (the most prevalent compound of concern), was detected above the future PSLs in soil vapor at 5- and 15-ft bgs at probe locations in many of the previously installed soil vapor probe locations (AOC4-SV1 through AOC4-SV13) and in the soil vapor probe locations AOC4-SV13 through AOC4-SV15 installed for the supplemental investigation.
- Several soil vapor probes had reported concentrations of naphthalene and 1,2,4-trimethylbenzene above their respective future PSL. As discussed in Section 3.5, these two compounds have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. Given the sporadic and isolated nature of these detections they are not considered Site COCs.
- On September 15 and 19, 2018, 12 sub-slab vapor pins were sampled for soil vapor. PCE concentrations in the sub-slab vapor pins sampled on September 15 and 19, 2018 ranged from 18 µg/m^3 (AOC4-SS10) to 1,300 µg /m^3 (AOC4-SS-3). Based on PCE concentrations exceeding the sub-slab PSLs, indoor and outdoor air sampling was conducted to further assess vapor intrusion potential to indoor air.
- Benzene was detected at concentrations above the future PSLs at various soil vapor probes and sub-slab probes during the initial investigation (May 2018 event). Subsequent sampling of these and additional probes conducted during the supplemental investigation did not confirm the continued presence of benzene in soil vapor probes and sub-slab probes. Based on the benzene detections during the initial investigation it is considered a Site COC.

Indoor Air

During the supplemental investigation, three indoor and outdoor air sampling events were conducted using Summa canisters. For each event, three outdoor air samples and four indoor air samples were collected. These samples were collected concurrent with selected sub-slab vapor pins to help interpret the origin of any indoor air VOC detections.

- PCE was not detected above the residential PSL (0.46 µg/m^3) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates. Low concentrations of PCE were detected with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk

estimate less than 1 x 10^{-6} and noncancer hazard quotient less than one, which is acceptable. Although PCE concentrations are below the PSL in indoor air, the sub-slab concentrations are high enough that there is still a potential for concern if the existing building is replaced by a new building.

- As discussed in Section 5.2, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

Recommendations

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address PCE and benzene soil vapor impacts above the future PSLs, as well as to address previously identified (Parsons, 2018a) shallow soils impacted with lead and/or arsenic above their PSLs.

1.0 INTRODUCTION

This document presents the results of a *Supplemental Preliminary Endangerment Assessment – Equivalent* (PEA-E) *Report* (Report) conducted for Los Angeles Unified School District's (LAUSD) Reseda High School (Site) in support of a Comprehensive Modernization Project (CMP). This Report presents a summary of Supplemental PEA-E activities, which includes several sampling and analyses events, performed in support of the proposed CMP on the school campus, located at 18230 Kittridge Street, Reseda, California (**Figure 1**).

Initial PEA-E activities were conducted between December 2017 and May 2018 to assess environmental conditions at selected areas within the CMP footprint prior to LAUSD's proposed demolition, modernization and construction activities. The Site background and environmental setting details are presented in the initial PEA-E Report (Parsons 2018a). The Supplemental PEA-E activities were conducted between September and January 2019 to further delineate soil vapor impacts in and around the Industrial Arts Building (**Figure 2**). The Supplemental PEA-E was conducted per the Draft Indoor Air Sampling Workplan (Parsons, 2018b) that was verbally approved by LAUSD on October 8, 2018. Various additional sampling activities described in this document were requested by LAUSD as the work progressed. The work was conducted in accordance with applicable regulatory including the *Preliminary Environmental Assessment Guidance Manual* (DTSC, 2015a) prepared by the California Department of Toxic Substances Control (DTSC). A human health screening evaluation (HHSE) was conducted for the Site based on the soil and soil vapor analytical data generated during the supplemental field investigation.

2.0 SAMPLING ACTIVITIES

The following sections describe the Supplemental PEA-E activities performed, including sampling strategy, methods and procedures, sample handling, decontamination procedures, and management of investigation-derived waste (IDW) for the field investigation. Soil sampling and soil vapor probe installation was conducted on September 10 and October 6, 2018. Soil vapor sampling was conducted on September 15 and 19 and October 9, 2018, and January 3, 2019. Indoor and outdoor air sampling with concurrent sub-slab soil vapor sampling was conducted on October 5 and 6, 2018, and January 3, 2019.

Site access and fieldwork notifications to school administrative personnel were coordinated with the LAUSD-OEHS Project Manager, the LAUSD Complex Project Manager, and the Reseda High School Plant Manager. The following subcontractors supported the fieldwork: Pacific Coast Locators (subsurface utility clearance), Rice General (concrete coring and hand augering), Gregg Drilling (direct push soil sampling and soil vapor probe installation), TestAmerica Laboratories, Inc. (soil sample analysis), Jones Environmental (soil vapor sample collection/analysis), and Belshire Environmental Services, Inc. (IDW transport and disposal).

2.1 SAMPLING STRATEGY

The supplemental PEA-E field program consisted of soil and soil vapor sampling to further investigate the recommended environmental conditions (RECs) in and around Area of Concern 4 (AOC4), which is the Industrial Arts buildings in the central portion of the school campus. Thirteen soil vapor probes (AOC4-SV1 and AOC4-SV13) were previously installed and sampled during the PEA-E field investigation (Parsons, 2018a). Soil vapor probes AOC4-SV14 through AOA4-SV17 were subsequently installed and sampled to further delineate volatile organic compounds (VOCs) in soil gas. Twelve sub-slab soil vapor pins were also installed and sampled in the four Industrial Arts building classrooms to evaluate VOCs immediately beneath the foundation slabs. The sample locations, depths, analytical parameters, and sample location rationale were approved by LAUSD. Soil vapor and sub-slab soil vapor locations are shown on **Figures 3.**

Based on the results of the soil vapor and sub-slab soil vapor samples, indoor air samples were collected to determine if there is a complete vapor intrusion pathway and a potential human health risk associated with the Industrial Arts Building in Rooms IA4, IA5A, IA5B, and IA6. Outdoor air samples and sub-slab soil vapor samples (at select locations) were collected concurrently with indoor air samples. Indoor and outdoor air sample locations are shown on **Figure 4**.

2.2 PRELIMINARY SCREENING LEVELS

Analytical results for the soil, soil vapor, sub-slab soil vapor, and outdoor air samples were compared with risk-based screening levels to determine if the analytes are present at the Site at concentrations that may represent a potential health risk. The derivation of the screening levels used for the various chemical constituents is described in the following sub-sections. The screening levels are referred to here and after as PSLs (preliminary screening levels). Note that in the initial PEA-E Report (Parsons 2018a), the current (as of 2018) PSLs were used to compare the data generated during the initial PEA activities. Based on LAUSD's subsequent request, the soil vapor and sub-slab soil vapor data generated during the Supplemental PEA-E activities are compared against the screening levels generated using the USEPA (2015) attenuation factors, as recommended in DTSC's draft vapor intrusion guidance (Haley and Aldrich, 2018).

2.2.1 Preliminary Screening Levels for Soil

For direct exposures to soils, DTSC's (2015a) *Preliminary Endangerment Assessment Manual* states that the risk-based screening levels that should be used are the "the USEPA Regional Screening Level (RSL) for residential land use, modified as necessary by the DTSC in Human Health Risk Assessment (HHRA) Note 3." Thus, the PSLs for soil used here are, in general, the USEPA (2018) RSLs unless DTSC (2018) has published a screening value, termed the DTSC-SL. Chemicals with special considerations are discussed in more detail below.

Petroleum hydrocarbons: Neither DTSC (2018) nor USEPA (2018) provide risk-based screening levels for petroleum hydrocarbons as measured by USEPA 8015. Instead, DTSC (2015)

recommends that the risk-based screening levels derived by the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB, 2019) for direct contact be used.

2.2.2 Screening Levels for Soil Vapor and Sub-Slab Soil Vapor

Soil vapor screening levels were based on the USEPA (2018) residential RSLs for air, as modified by the DTSC (2018) residential screening levels (SLs) for air. However, these screening levels are for indoor and/or ambient air. To convert them to soil vapor and sub-slab soil vapor screening levels, the indoor air screening levels are divided by an attenuation factor. Both DTSC (2011) and USEPA (2015) recommend different attenuation factors. However, DTSC has incorporated the USEPA (2015) attenuation factors into their draft vapor intrusion guidance (Haley and Aldrich, 2018). As that guidance has not yet been released, soil vapor and sub-slab soil vapor PSLs were derived using both the DTSC (2011) attenuation factors (called the "current PSLs") and the USEPA (2015) attenuation factors (called the "future PSLs").

2.2.3 Screening Levels for Indoor Air

Indoor air screening levels were taken from the USEPA (2018) residential RSLs for air, as modified by the DTSC (2018) residential SLs for air.

2.3 PRE-FIELD ACTIVITIES

Soil boring locations were pre-marked with white paint and Underground Service Alert of Southern California (DigAlert) was notified (on September 4 and October 3, 2018) of the proposed boring locations prior to initiating boring activities. DigAlert contacted the utility owners of record within the Site vicinity and notified them of the planned subsurface investigation. The utility owners of record, or their designated agents, clearly marked the position of their utilities on the ground surface on the public right-of-way sidewalks and street adjacent to the area designated for investigation, up to the school property line. LAUSD provided several available as-built plans depicting locations of subsurface structures and utilities which were also reviewed prior to marking the boring locations.

The proposed excavation areas were surveyed by Pacific Coast Locators, a private utility locator, for the presence of underground utilities using geophysical methods (including ground-penetrating radar, electromagnetic utility locating, and deep search metal detector). Based on the presence of subsurface utilities identified in several locations, each affected boring location was relocated slightly or cancelled, to avoid causing damage to the utility.

2.4 FIELD ACTIVITIES

The following work was completed in AOC4:

On September 10, 2018 soil vapor probes AOC4-SV14 and AOC4-SV15 were installed at 5 and 15 feet (ft) below ground surface (bgs), and sub-slab probes AOC4-SS-4 through AOC4-SS-12 were installed inside the Industrial Arts buildings.

On September 15, 2018 soil vapor probes AOC4-SV1, AOC4-SV2, AOC4-SV3, AOC4-SV6, AOC4-SV8 – AOC4-SV11, AOC4-SV15, and sub-slab probes AOC4-SS8 through AOC4-SS12 were sampled.

On September 19, 2018, soil vapor probes AOC4-SV9, AOC4-SV10, AOC4-SV11, AOC4-SV13 and AOC4-SV14 were sampled, and sub-slab probes AOC4-SS1 through AOC4-SS5, and AOC4-SS7 were sampled.

On October 5, 2018, soil vapor probes AOC4-SV16 and AOC4-SV17 were installed (5 and 15 ft bgs), west and north of the Industrial Arts buildings, respectively. Sub-slab probes AOC4-SS3, AOC4-SS5, AOC4-SS7 and AOC4-SS12 were sampled. Indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, were collected while the heating, ventilation and air conditioning (HVAC) unit was in normal operating mode.

On October 6, 2018 sub-slab probes AOC4-SS3, AOC4-SS5, AOC4-SS7 and AOC4-SS12 were sampled. Indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, were collected while the HVAC unit was in non-operating (off) mode.

On October 9, 2018, soil vapor probes AOC4-SV16 and AOC4-SV17 were sampled.

On January 3, 2019, the following samples were collected while the HVAC system was in normal operating mode:

- Indoor air samples IAS-1 through IAS-4.
- Outdoor air samples OAS-1 through OAS-3.
- Underground utility tunnel air samples UT-1 and UT-2.
- Sub-slab samples AOC4-SS3, AOC4-SS5 and AOC4-SS7.
- Soil vapor probes AOC4SV5, AOC4-10, AOC4-SV12, AOC4-SV16 and AOC4-SV17.

The following sections provide more detail on the probe installation and sampling activities.

2.4.1 Soil Sample Collection and Probe Construction

During installation of soil vapor probes AOC4-SV14 and AOC4-SV15 on September 10, 2018 and AOC4-SV16 and AOC4-SV17 on October 5, 2018, soil samples were collected at 5 and 15 ft depth intervals. Each soil sample was collected in a manner that minimized disturbance and allowed the sample to retain as much of the original structure as possible. Soil samples were collected directly from the hand auger at each depth interval and placed in a laboratory-provided glass jar and TerraCore sample container. Soil samples were collected in the individual containers, which were placed in individual sealable plastic bags. Each sample container was labeled individually, stored in an ice chest containing ice, and delivered to a certified laboratory with a chain-of-custody form.

Soil vapor probes AOC4-SV14 through AOC4-SV17 were installed as dual-nested probes, using a hand auger. The concrete was cored at boring locations AOC4-SV14 and AOC4-SV15 prior to hand augering. A 6-inch long stainless-steel inlet screen was connected to ¼-inch outer diameter

Teflon tubing, which extended from ground surface to approximately 14.5- to 15-ft bgs and 4.5- to 5-ft bgs. The screens were centered within approximately 1 foot of #2/16 sand so that approximately 3 inches of sand extended above and below the screen ends. One foot of dry granular bentonite was placed immediately above each sand interval and then overlain with hydrated granular bentonite. Granular bentonite extended from 14.25- to 5.25-ft bgs, and from 4.25-ft bgs to 1-foot bgs. Near ground surface, the vapor monitoring probe tube ends were placed in a plastic bag and coiled in the top of the borehole. The cores at AOC4-SV14 and AOC4-SV15 were capped with temporary asphalt patch. Boring logs are in **Appendix A**.

Sub-Slab Vapor Pin Construction

Sub-slab soil vapor sampling was conducted by installing a VAPOR PIN® at nine locations (AOC4-SS4 through AOC4-SS12) inside the Industrial Arts buildings. A hammer drill was used to drill a 1 ½-inch diameter hole into the concrete a minimum of 1 ¾-inches into the slab. A 5/8-inch diameter hole was drilled through the slab and approximately 1-inch into the underlying soil to form a void. The lower end of the VAPOR PIN® assembly was placed in the hole and the pin was tapped into place using a dead hammer. The VAPOR PIN® was protected using the flush-mount cover.

2.4.2 Soil Vapor Sample Collection

The vapor monitoring probes and sub-slab probes were allowed to equilibrate at least 48 hours prior to purging and sampling. The probes were sampled in accordance with *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations* (DTSC, 2015b). Purge volumes were calculated at each vapor probe using the volume of the soil vapor probe, filter pack, dry bentonite, and the tubing in the purge/sampling train to the purge pump.

Prior to purging and sampling at each soil vapor probe or sub-slab probe, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of approximately 100 inches of water, sealing the entire system and observing the vacuum for a minimum of 1 minute. A vacuum gauge, connected in parallel to the apparatus, was used to measure the vacuum. The above-ground fittings were adjusted until there was no noticeable change in the vacuum.

The purge and sampling flow rate was approximately 200 cubic centimeters per minute (cc/min), as noted on the laboratory provided analytical reports and chain of custody (CoC) forms. A default of 3 purge volumes was used as recommended by DTSC (2015b) guidance. Purging was completed using a pump except if noted on the CoC. Soil vapor samples were collected in glass gas-tight syringes equipped with Teflon plungers, with the exception of samples collected on October 9, 2018 and January 4, 2019, which were collected in 1-liter Summa canister.

A tracer gas of n-pentane, n-hexane, and n-heptane was used as leak-test compounds to determine if there were surface leaks into the subsurface due to lack of annular space probe seals. The tracer gas was placed at the tubing-surface interface before sampling. The tracer gas was included as a target analyte during the VOC analysis.

Soil vapor samples were analyzed for VOCs by a mobile laboratory using EPA Method 8260, with the exception of soil vapor samples collected from AOC4-SV16 and AOC4-SV17 (October 9, 2018), which were analyzed using EPA Method TO-15. The quality assurance quality control (QA/QC) documents are provided with the soil vapor laboratory reports.

2.4.3 Indoor and Outdoor Air Sampling

Indoor air sampling locations were selected to provide data to evaluate potential indoor air risk to possible future occupants of the Industrial Arts buildings IA4, IA5A, IA5B, and IA6.

On October 5 and 6, 2018, air samples were collected in 6-liter Summa canisters from each of the four rooms listed directly above. Air samples were collected on October 5 with the HVAC system in normal operating mode (on) and October 6 with the HVAC system non-operating (off) mode. Three outdoor background ambient air samples were collected on both days, as well as a sub-slab probe with the highest detection from previous sampling events in each room was selected for resampling to characterize the concentrations of target analytes to aid in interpreting the indoor air results. This included location AOC4-SS5 in Room IA6; AOC4-SS3 in Room IA4; AOC4-SS7 Room IA5B; and AOC4-SS12 in Room IA5A.

An additional round of indoor and outdoor air sampling was conducted in January 2019 to provide additional characterization during the winter season. The samples collected during the winter season event with the HVAC system on and at the same locations as the October 5 and 6 events. Additionally, air sampled were collected in the underground utility tunnel located to the west and south of the Industrial Arts Building.

The indoor air and outdoor background ambient air sampling locations are depicted on **Figure 4**.

2.4.4 Indoor/Outdoor Sampling Methodology and Procedures

For indoor air sampling in the classrooms, the windows and doors of the building were closed, and ingress / egress activities to the building were minimized.

- Personnel was onsite for the duration of the sampling event to document conditions during the sampling.
- The air inlet for the sampling Summas were located approximately 4 to 5 feet above the ground surface in the breathing zone. The indoor air samples were collected in the middle of each room, away from doors.
- Each sampling Summa container was equipped with a dedicated vacuum gauge and laboratory-calibrated flow regulator.

The outdoor air samples were collected in a location that was generally upwind of known subsurface plumes. Each outdoor air sampler was placed approximately 4 to 5 feet above the ground and was collected at the same time the indoor samples were collected. Current wind conditions were checked minutes prior to the start of the air sample collection and throughout each event, by using the weather data provided from nearby Van Nuys Airport, on the website https://www.windfinder.com/report/van_nuys_airport. The recorded wind directions are

presented in **Appendix B**. To the extent feasible, the outdoor air samples were located away from obvious chemical sources such as powered engines, trash areas, etc.

The air samples were collected directly into pre-cleaned, batch-certified, 6-liter, flow-controlled, evacuated Summa canisters. The laboratory provided flow controllers were pre-calibrated to collect the air samples at 12.5 milliliters per minute (mL/min) over an 8-hour period.

The collection of indoor air was initiated at each Summa canister at approximately the same time (within several minutes of each other). Each sample was finished when either the vacuum in the canister reached approximately 2 to 3 inches of mercury prior to 8 hours, or after eight hours from the sample start time.

Sub-Slab samples (at select locations) were collected directly into pre-cleaned, batch-certified, 1-liter, flow-controlled evacuated Summa canisters immediately after indoor air sampling was completed. The laboratory provided flow controllers were pre-calibrated to collect the air samples at 200 cc/min.

The initial and final vacuum in each canister was recorded on the CoC form and in the field log book. The completed CoC was sent with the air sample shipment to the laboratory.

2.4.5 Sample Analysis

The indoor air, outdoor air, and select sub-slab samples were collected and analyzed for selected VOCs using Environmental Protection Agency (EPA) Method TO-15. Analytical services were provided by Jones Environmental, Inc., with a laboratory accredited by the Environmental Laboratory Accreditation Program (ELAP) certified.

2.5 EQUIPMENT DECONTAMINATION

Down-hole equipment used during soil sampling activities was decontaminated prior to use at each sampling point to reduce the potential for cross-contamination. Reusable sampling equipment was decontaminated between each sampling event using the following procedures:

- Wash with Liquinox and brush to remove excess contaminants;
- Rinse with distilled water; and
- Rinse twice with distilled water.

2.6 INVESTIGATIVE DERIVED WASTE

Used personal protective equipment and disposable equipment was double-bagged and placed in the on-site dumpster. These wastes are not considered hazardous and were sent to a municipal landfill.

One 55-gallon drum of soil cuttings was generated during the field activities. The soil was temporarily stored on-site in the labeled Department of Transportation-approved drum pending disposal profiling. The drum was removed by Belshire Environmental Services, Inc. (BESI) on

November 9, 2018. The drums were disposed of at Soil Safe in Adelanto, California. Drum disposal documentation is provided in **Appendix C**.

2.7 BUILDING INVENTORY

A building inventory survey was conducted in accordance with DTSC's vapor intrusion guidance (DTSC, 2011). Indoor sources of contamination were identified and photographed prior to indoor air sampling. Each room was inspected, and products that contain volatile chemicals were listed on the Building Screening Form, along with the volatile ingredients of each product (**Appendix D**). A photoionization detector (PID) was used to measure total VOCs from areas where products were stored. There were no PID readings above background concentrations (i.e., 0.0 parts per million).

3.0 RESULTS

3.1 INTRODUCTION

This section discusses the results of the soil and soil vapor sampling. Soil samples were analyzed by TestAmerica Laboratories, Inc., an Environmental Laboratory Accreditation Program (ELAP)-certified laboratory located in Irvine, California. The soil gas mobile laboratory and fixed-laboratory samples were analyzed by Jones Environmental, Inc. The data were reviewed and are considered acceptable for decision-making purposes. Copies of soil analytical laboratory reports are provided in **Appendix E**, and soil gas and air sample analytical laboratory reports are provided in **Appendix F**.

3.2 SOIL ANALYTICAL RESULTS

Analytical results from the soil sampling during installation of probe locations AOC4-SV14 through AOC4-SV17 are summarized in the following sections. The results are discussed for compounds that were previously analyzed in soil. The polychlorinated biphenyls (PCBs), total petroleum hydrocarbons (TPH), and VOCs analytical data are compiled in **Tables 1 – 3, respectively,** and the soil sample locations are presented on **Figure 3**.

The samples were analyzed by TestAmerica using the following methods:

- PCBs by US EPA Method 8082
- TPH by US EPA Method 8015M
- VOCs by US EPA Method 8260B

3.2.1 PCBs

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for PCBs. The soil samples were collected during installation of soil vapor probes AOC4-SV14 through AOC4-SV17 at 5 and 15 ft bgs. PCBs were not detected above their respective laboratory reporting limits in any of the samples analyzed. Based on these results, PCBs are not considered a Site chemical of concern (COC). The PCB laboratory data results are provided in **Table 1.**

3.2.2 TPH

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for TPH in the gasoline range (GRO), diesel range (DRO), and oil range (ORO) organics. GRO was not detected above the laboratory reporting limit in the 10 samples analyzed. DRO was detected above the laboratory reporting limit in one sample analyzed (sample AOC4-SV17-5); the reported concentration was 3.5J (estimated value). ORO was detected above the method detection limit in 10 soil samples ranging in concentration from 3.2J milligrams per kilogram (mg/kg) (AOC4-SV16-15) to 10 mg/kg (AOC4-SV17-5). Detections of

ORO were below the San Francisco RWQCB RSL of 12,033 mg/kg (San Francisco Regional Board 2019). The analytical results are provided in **Table 2**. Based on these results, TPH is not considered a Site COC.

3.2.3 VOCs in Soil

Eight primary and two duplicate soil samples were collected within AOC4 during the supplemental phase of work and analyzed for VOCs. No VOC compounds were detected in soil above their respective reporting limits. The analytical results are provided in **Table 3**.

3.3 SOIL VAPOR SAMPLING RESULTS

3.3.1 VOCs in Soil Vapor Probes

Dual-nested soil vapor probes were installed at four new locations (AOC4-SV14 through AOC4-SV17) to further delineate tetrachloroethene (PCE) in soil vapor.

A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes as directed by LAUSD, on September 5 and 19 and October 9, 2018 and January 3, 2019. Some of the sampled probes were resample events to provide additional comparison data. The vapor samples were analyzed by Jones Environmental mobile or fixed laboratory for VOCs during each of the sample events. LAUSD OEHS requested that the current analytical data generated during the supplemental sampling and analyses be compared against the DTSC's future PSLs. PCE concentrations ranged from 1.7 micrograms per cubic meter ($\mu g/m^3$) (AOC4-SV17-5) to 1,440 $\mu g/m^3$ (AOC4-SV10-5). PCE was detected above the future PSL 15 $\mu g/m^3$ at 31 sample (either 5 or 15 ft bgs) locations. The future DTSC PSL for naphthalene is 2.8 $\mu g/m^3$. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from 3.0 $\mu g/m^3$ (AOC4-SV16-5) to 774 $\mu g/m^3$ (AOC4-SV8-15). Benzene exceeded the future PSL concentration (3.2 $\mu g/m^3$) in one (AOC4-SV8-15) of the 41 samples, at 7 $\mu g/m^3$. 1,2,4-Trimethylbenzene exceeded the future PSL concentration (2,100 $\mu g/m^3$) in one (AOC4-SV8-15) of the 41 samples, at 2,440 $\mu g/m^3$. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective current PSLs. The analytical results are provided in **Table 4** and the soil vapor probe locations are presented on **Figure 3**.

3.3.2 VOCs in Sub-Slab Soil Vapor Pins

Three sub-slab soil vapor pins (AOC4-SS1 through AOC4-SS3) were installed prior to the supplemental assessment activities. For the supplemental assessment activities, sub-slab vapor pins AOC4-SS4 through AOC-SS12 were installed inside the Industrial Arts buildings, to evaluate PCE beneath the foundation slab. The vapor pin locations are depicted on **Figure 3**.

Between September 19, 2018 and January 3, 2019, 23 sub-slab vapor pins were sampled for soil vapor, including duplicate samples. The vapor samples were analyzed by Jones Environmental,

Inc. PCE concentrations in the sub-slab vapor pins sampled between September 15, 2018 and January 3, 2019 ranged from 18 µg/m^3 (AOC4-SS10) to 1,300 µg/m^3 (AOC4-SS3).

On October 5, 2018 one vapor pin in each of the four Industrial Arts building classrooms was sampled while the building HVAC system was in normal operating mode, and the same four vapor pins were then sampled the following day (October 6) while the HVAC system was in non-operating (off) mode. The four vapor pins (AOC4-SS3, AOC4-SS5, AOC4-SS7, and AOC4-SS12) were chosen to be sampled based on the relatively higher PCE concentrations observed during previous sampling events. The PCE concentrations in the four vapor pins results from October 5, 2018 ranged from 4 µg/m^3 (AOC4-SS5) to 373 µg/m^3 (AOC4-SS3). The PCE concentrations in the four vapor pins results from October 6, 2018 ranged from 9 µg/m^3 (AOC4-SS7) to 374 µg/m^3 (AOC4-SS3). The PCE concentrations in the four vapor pins results from the January 3, 2019 event ranged from 42.6 µg/m^3 (AOC4-SS5) to 245 µg/m^3 (AOC4-SS3). There did not appear to be a discernable PCE concentration trend correlating with the HVACs operational mode. PCE exceeded the future RSL (15 µg/m^3) in 21 of the 23 sub-slab vapor pin samples during the vapor sampling events. Benzene did not exceed the future RSL (3.2 µg/m^3) in any of the vapor pins sampled during the supplemental sampling events. Note that some of the benzene reporting limits were above the future RSL. This is not considered a likely potential risk, based on the number of samples with benzene reported, and the overall benzene concentrations of the samples. The sub-slab vapor pin laboratory results are tabulated in **Table 5.**

3.3.3 VOCs in Indoor and Outdoor Air

Twenty-three (23) indoor air samples IAS-1 through IAS-4 and outdoor air samples OAS-1 through OAS-3, including two duplicates were sampled on October 5 and 6, 2018, and on January 3, 2019. Additionally, two underground utility tunnel air samples (UT-1 and UT-2) were sampled on January 3, 2019. The indoor air and outdoor air samples, including the underground utility tunnel air samples results are provided on **Table 6**.

The indoor and outdoor air samples were collected to compare against the soil vapor data collected simultaneously from the Industrial Art building classrooms.

PCE was not detected above the residential PSL (0.46 µg/m^3) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates.

On October 5, 2018, when the HVAC system was in normal operating mode, benzene concentrations in the four indoor air samples ranged from 0.44 µg/m^3 to 0.46 µg/m^3. Benzene concentrations in the three outdoor air samples ranged from 0.38 µg/m^3 to 0.43 µg/m^3. The benzene PSL for residential air is 0.097 µg/m^3. The essentially equal concentrations of benzene reported in the indoor and outdoor air samples indicate that benzene is associated with ambient sources and is not migrating from beneath the building foundations and accumulating in indoor air when the HVAC system is operating.

On October 6, 2018, when the HVAC system was in non-operating (off) mode, benzene concentrations in the four indoor air samples ranged from 0.78 µg/m^3 to 1.06 µg/m^3. Benzene

concentrations in the three outdoor air samples ranged from 0.35 µg/m^3 to 0.61 µg/m^3. The concentrations of benzene reported in the indoor air is slightly higher than the benzene concentrations in outdoor air samples, which could indicate benzene is migrating from beneath the building foundations and accumulating in indoor air. The slight difference in the benzene results may also be attributed to natural air flow variability inside and outside the rooms. However, benzene was not detected above the reporting limit in the sub-slab soil vapor samples collected during the same sample events, indicating that benzene detected in the indoor air samples is unlikely to have migrated from beneath the building foundation into indoor.

On January 3, 2019, when the HVAC system was in normal operating mode, benzene concentrations in the four indoor air samples ranged from 1.34 µg/m^3 (IAS-4) to 2.33 µg/m^3 (IAS-1). Benzene concentrations in the three outdoor air samples ranged from 1.56 µg/m^3 (OAS-3) to 1.85 µg/m^3 (OAS-1). The essentially equal concentrations of benzene reported in the indoor and outdoor air samples indicate that benzene is associated with ambient sources is not migrating from beneath the building foundations and accumulating in indoor air.

3.4 DELINEATION OF IMPACTS IN SOIL

For the supplemental scope of work, soil samples were collected during the installation of soil vapor probes AOC4-SV14 through AOC4-SV17, at 5 and 15 ft bgs. VOCs were not detected above their respective reporting limits in soil samples collected from the four vapor probe locations. VOCs in soil are considered laterally delineated to the west of the Industrial Arts buildings by the lack VOC concentrations in AOC4-SV16, and to the north by AOC4-SV17. **Table 3** provides VOC data from the soil samples collected.

There were no GRO detections in the soil samples above laboratory reporting limits, and only one DRO detection (low, estimated value) (3.5J mg/kg in sample AOC4-SV17 at 5 ft bgs). There were no ORO detections above 10 mg/kg in any of the soil samples analyzed. Note the San Francisco Regional Water Quality Control Board (2016) ORO screening level is 10,746 mg/kg. There were no PCB detections above their respective laboratory reporting limits in any of the soil samples collected from AOC4-SV14 through AOC4-SV17. Therefore, GRO, DRO and ORO (TPH) and PCBs are considered delineated to the west of the Industrial Arts buildings by the lack of TPH and PCB detections in AOC4-SV16, and to the north by AOC4-SV17. **Figure 3** depicts soil sampling locations.

The vertical extent of soil exceedances was defined by previous sampling (Parsons, 2018) and the 15 ft bgs sample analyses from soil vapor probes AOC4-SV14 through AOC4-SV17.

3.5 DELINEATION OF IMPACTS IN SOIL VAPOR

Based on the VOC results of soil vapor sample events between September 15, 2018 and January 3, 2019, the VOC-impacts in the Industrial Arts building area have been laterally delineated with respect to the overall soil vapor source. VOCs are considered delineated to the west of the Industrial Arts buildings by the relatively low VOC concentrations in AOC4-SV16 soil vapor, and

by the relatively low VOC concentrations in AOC4-SV17 soil vapor to the north. VOC concentrations are delineated by location AOC4-SV5 to the east. Soil vapor is delineated farthest south by soil vapor samples collected from AOC5-SV1 and AOC5-SV2. Soil vapor is not delineated at location AOC4-SV12 which south of the Industrial Arts building but north of the underground utility tunnel (**Figure 4**).

Naphthalene, ethylbenzene, and 1,2,4-trimethylbenzene were detected in soil vapor samples from probes AOC4-SV8 at 5 and 15 ft bgs during the September 15, 2018 event. Similar elevated concentrations of these compounds were not detected during the previous sample event (April 21, 2018) at AOC4-SV8 and have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. These two detections from the September 15, 2018 sample event are considered anomalous. **Table 4** provides the soil vapor probe sampling results and **Figure 3** provides the soil vapor sampling locations.

Specifically, PCE concentrations in soil vapor exceeded the future PSL (15 µg/m^3) at most of the soil vapor probes sampled during the supplemental scope of work. PCE concentrations in soil vapor were detected at or below the PSL in soil vapor probes AOC4-SV16 and AOC4-SV17, west and north of the Industrial Arts buildings. PCE in soil vapor at AOC4-SV5 east of the Industrial Arts buildings was at or below the future PSL. PCE in soil vapor at AOC4-SV12 south of the Industrial Arts buildings was below the current PSL but above the future PSL. The previously sampled AOC5-SV1 and AOC5-SV2 soil vapor probe data define VOCs to the south of the Industrial Arts buildings. **Figure 5** and **6** present iso-concentrations of PCE in the 5-ft bgs and 15-ft bgs soil vapor probes. To be conservative the highest detection was used at each probe location.

AOC4-SV14 and AOC4-SV15 were installed and sampled to correlate VOC concentrations in the shallow subsurface beneath the classrooms with VOCs in the nearby sub-slab vapor pin locations AOC4-SS6 and AOC4-SS9, respectively. VOCs are considered laterally delineated to the west of the Industrial Arts buildings by the lack VOC concentrations in AOC4-SV16, to the north by AOC4-SV17, and to the east by AOC4-SV5.

4.0 FIELD VARIANCES

Field conditions caused the following variances from the original scope of work:

- Sub-slab vapor pin AOC4-SS6 was unable to be purged or sampled due to no flow in the system.
- Soil vapor samples collected from locations AOC4-SV16 and AOC4-SV17 on October 9, 2018, were analyzed for VOCS by Method TO-15 which provided lower reporting and method detection limits compared to Method 8260.

5.0 HUMAN HEALTH SCREENING EVALUATION

This section presents the human health screening evaluation (HHSE) portion of the PEA-E. The HHSE evaluates potential impacts to human health from exposure to the chemicals detected in soil and soil vapor at the Site. Following the PEA Guidance Manual (DTSC, 2015a), the HHSE is performed within the context of a health risk assessment that addresses an unrestricted future residential land-use scenario, which is more health-protective than the existing and continued use of the Site as a school.

5.1 SOILS

Soil was sampled for PCBs (**Table 1**), TPH (**Table 2**), and VOCs (**Table 3**) during the supplemental investigation. All detections were below the PSLs. This indicates that potential future residential exposures to these chemicals in soils result in a residential risk estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable.

5.2 SOIL VAPOR/SUB-SLAB SOIL VAPOR/INDOOR AIR

In the soil vapor samples collected at the site, benzene, naphthalene, PCE, and 1,2,4-trimethylbeznene were detected at or above the future PSLs (see **Table 4**). Benzene, naphthalene, and PCE were also detected above the current PSLs. In the sub-slab soil vapor samples, only benzene and PCE were detected above the current and future PSLs (**Table 5**). In contrast, in both indoor and outdoor air, only benzene was detected above the PSLs (**Table 6**).

Benzene. Outside of the buildings at the site, benzene was detected above the future PSLs at 15-ft bgs at sample locations AOC4-SV8 and AOC4-SV12. However, benzene was not detected in the 5-ft bgs sample at the same locations. This likely indicates that benzene is degrading as it migrates through the soil column and that benzene in soil vapor at AOC4-SV8 and AOC4-SV12 does not represent a potential risk. However, benzene was also detected above the future PSLs in three sub-slab soil vapor samples at up to 64 times the current PSL. It should be noted that using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor benzene concentration of 209 $\mu g/m^3$ corresponds to indoor air concentrations of 10.45 and 6.27 $\mu g/m^3$, respectively. This is not substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.19 to 1.371 $\mu g/m^3$ for 2017) and Burbank (0.50 to 4.79 $\mu g/m^3$ for 2013). Lastly, it should be noted that benzene was measured in indoor and outdoor air in three separate sampling events at the site. In two events, benzene concentrations were roughly equivalent in the indoor and outdoor air samples but were not detected in the sub-slab samples. In the third event, benzene was slightly higher in the indoor air samples than in the outdoor air samples but was not detected in the sub-slab samples. Overall, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the

future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

Naphthalene. As stated in Section 3.5, the detection of naphthalene above the future PSLs in AOC4-SV8 is considered anomalous and is not evaluated in this risk assessment. Naphthalene also exceeded the future PSLs (but not current) at AOC4-SV16 and AOC4-SV17 at 5 and 15 ft bgs in the samples collected on October 9, 2018. However, naphthalene was also not detected in same probes in the samples collected on January 3, 2019. The detections in October 2018 were only slightly above the detection limits in January 2019; i.e., 3.0 to 4.0 $\mu g/m^3$ vs. 2.0 $\mu g/m^3$. Thus, naphthalene may have been present below the detection limit in the January 2019 samples. Using the future attenuation factors, these soil gas concentrations result in estimated indoor air concentrations of 0.09 to 0.12 $\mu g/m^3$ and a risk of approximately 1×10^{-6} for residential receptors. While the indoor and outdoor air samples were not analyzed for naphthalene, ambient concentrations in central Los Angeles, Rubidoux, and North Long Beach ranged from 0.03 to 0.73 $\mu g/m^3$ in 2003 to 2004 (SCAQMD 2008). As this ambient range exceeds the predicted indoor air concentrations, naphthalene in soil gas at the Site would not likely result in indoor air concentrations above ambient conditions and does not represent a potential vapor intrusion issue.

1,2,4-Trimethylbenzene. As stated in Section 3.5, the one detection of 1,2,4-trimethylbenzene above the future PSLs is considered anomalous and is not evaluated in this risk assessment.

Tetrachloroethene (PCE). In the sub-slab soil vapor samples, PCE was detected at up to 1,300 $\mu g/m^3$, which is 85 times the current (and more conservative) PSL. In the soil vapor probes installed outside of the buildings, PCE was detected at up to 1,440 $\mu g/m^3$, which is three times the current PSL but 94 times the future PSL. Using the default DTSC (2011) and USEPA (2015) sub-slab soil vapor attenuation factors, the maximum detected sub-slab soil vapor concentration of 1,300 $\mu g/m^3$ corresponds to indoor air concentrations of 65 and 39 $\mu g/m^3$, respectively. These concentrations are substantially greater than the ambient concentrations at the two nearest Air Resources Board monitoring stations; i.e., Simi Valley (0.034 to 0.20 $\mu g/m^3$ for 2017) and Burbank (0.14 to 1.15 $\mu g/m^3$ for 2013). Due to the potential risks from PCE, three indoor and outdoor air sampling events were conducted at the Site. While PCE was detected in almost all indoor air samples, all of the results were below the residential PSL, both with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk estimate less than 1×10^{-6} and noncancer hazard quotient less than one, which is acceptable. It should be acknowledged, however, that while the current building appears to limit vapor intrusion by PCE, the concentrations are high enough in sub-slab soil gas that there is still a potential for concern if there is new building construction and the existing building is replaced.

6.0 CONCLUSIONS AND RECOMMENDATIONS

6.1 CONCLUSIONS

The following conclusions were derived from the supplemental investigation conducted at Reseda High School for soil, soil vapor and indoor air. Previous recommendations regarding the presence of lead and arsenic in soil above their respective PSLs are documented in the PEA-E Report (Parsons, 2018a).

Soil

- Soil was sampled for PCBs, TPH, and VOCs during the supplemental investigation in AOC4. There were no detections above the PSLs, which is consistent with the original investigation results (Parsons, 2018a). Therefore, PCBs, TPH, and VOCs are not considered COCs in soil.

Soil Vapor

- A total of 41 soil vapor samples, including duplicates, were collected from selected soil vapor probes during the supplemental investigation on September 5 and 19, October 9, 2018 and January 3, 2019 to further characterize soil vapor concentrations in AOC4. Select probes were sampled in multiple events to provide additional data for decision-making purposes. LAUSD OEHS requested that the analytical data now be compared against the DTSC's future PSLs. PCE was detected above the future PSL (15 µg/m^3) at 31 sample (either 5 or 15 ft bgs) locations. In the 41 vapor samples, PCE concentrations ranged from 1.7 µg/m^3 (AOC4-SV17-5) to 1,440 µg/m^3 (AOC4-SV10-5). The future PSL for naphthalene is 2.8 µg/m^3. Naphthalene exceeded the future PSL concentration in five of the 41 samples, ranging from 3.0 µg/m^3 (AOC4-SV16-5) to 774 µg/m^3 (AOC4-SV8-15). 1,2,4-trimethylbenzene exceeded the future PSL concentration (2,100 µg/m^3) in one (AOC4-SV8-15) of the 41 samples, at 2,440 µg/m^3. Benzene exceeded the future PSL concentration (3.2 µg/m^3) in one (AOC4-SV8-15) of the 41 samples, at 7 µg/m^3. Note that for benzene and naphthalene the non-detect values reported by the laboratory are the method detection limits; some of which exceed the future PSLs. No other VOCs were detected above their respective PSLs.
- Based on the multiple soil vapor sampling events from previously installed and more recently installed soil vapor probes, vapor-phase VOCs are considered laterally delineated but not vertically delineated (**Figures 5 and 6**). VOCs, including PCE (the most prevalent compound of concern), was detected above the future PSLs in soil vapor at 5- and 15-ft bgs at probe locations in many of the previously installed soil vapor probe locations (AOC4-SV1 through AOC4-SV13) and in the soil vapor probe locations AOC4-SV13 through AOC4-SV15 installed for the supplemental investigation.
- Several soil vapor probes had reported concentrations of naphthalene and 1,2,4-trimethylbenzene above their respective future PSL. As discussed in Section 3.5, these

two compounds have not been observed in any of the other soil vapor probes sampled during multiple events during the initial and supplemental scope of work. Given the sporadic and isolated nature of these detections they are not considered Site COCs.

- On September 15 and 19, 2018, 12 sub-slab vapor pins were sampled for soil vapor. PCE concentrations in the sub-slab vapor pins sampled on September 15 and 19, 2018 ranged from 18 µg/m^3 (AOC4-SS10) to 1,300 µg /m^3 (AOC4-SS-3). Based on PCE concentrations exceeding the sub-slab PSLs, indoor and outdoor air sampling was conducted to further assess vapor intrusion potential to indoor air.
- Benzene was detected at concentrations above the future PSLs at various soil vapor probes and sub-slab probes during the initial investigation (May 2018 event). Subsequent sampling of these and additional probes conducted during supplemental investigation did not confirm the continued presence of benzene in soil vapor probes and sub-slab probes. Based on the benzene detections during the initial investigation it is considered a Site COC.

Indoor Air

During the supplemental investigation, three indoor and outdoor air sampling events were conducted using Summa canisters. For each event, three outdoor air samples and four indoor air samples were collected. These samples were collected concurrent with selected sub-slab vapor pins to help interpret the origin of any indoor air VOC detections.

- PCE was not detected above the residential PSL (0.46 µg/m^3) in any of the 23 indoor, outdoor, or underground utility tunnel air samples collected on any of the three sample dates. Low concentrations of PCE were detected with the HVAC system on and with it off. Thus, even under worst-case conditions (i.e., HVAC off, which reduces the dilution of indoor air with outdoor air), exposures to PCE in indoor air result in a residential risk estimate less than 1 x 10^{-6} and noncancer hazard quotient less than one, which is acceptable. Although PCE concentrations are below the PSL in indoor air, the sub-slab concentrations are high enough that there is still a potential for concern if the existing building is replaced by a new building.
- As discussed in Section 5.2, benzene in soil vapor and sub-slab soil vapor at the Site does exceed the future PSLs, but the concentrations of benzene in indoor air and outdoor air appear to be relatively similar, indicating that benzene does not represent a potential vapor intrusion issue.

6.2 RECOMMENDATIONS

The following are recommendations based on the above conclusions:

- A Removal Action Workplan (RAW) should be developed for the Site to address PCE and benzene soil vapor impacts above the future PSLs, as well as to address previously identified (Parsons, 2018a) shallow soils impacted with lead and/or arsenic above their PSLs.

7.0 REFERENCES

Chernoff G, Bosan W, Oudiz D. 2008. *Determination of a Southern California regional background arsenic concentration in soil*.

DTSC, 2011. *Guidance for the evaluation and mitigation of subsurface vapor intrusion to indoor air (vapor intrusion guidance).* Final.

DTSC 2015a. *Preliminary Endangerment Assessment Manual. A guidance manual for evaluating hazardous substance release sites*.

DTSC, 2015b. *Department of Toxic Substances Control (DTSC) 2015 Advisory – Active Soil Gas Investigations*

DTSC, 2018. *HERO HHRA Note Number 3, DTSC-Modified Screening Levels (DTSC-SLs).* June.

Haley and Aldrich, 2018. Vapor intrusion workshop summary from the 2018 West Coast AEHS International Conference on Soil, Water, Energy, and Air. Available at: https://www.haleyaldrich.com/Portals/0/Downloads/HA%20Technical%20Update%20-%20VI%20Workshop%20Summary.pdf

OEHHA, 2007. Development of health criteria for schools site risk assessment pursuant to Health and Safety Code Section 901(g): child-specific benchmark change in blood lead concentration for school site risk assessment.

OEHHA, 2009. *Revised California human health screening levels for lead*.

Parsons, 2018a. *Preliminary Endangerment Assessment – Equivalent Report*. Reseda High School Comprehensive Modernization Project, 18230 Kittridge Street, Reseda, California 91335. August 7.

Parsons, 2018b. *Draft Indoor Air Sampling Workplan*. Reseda High School Comprehensive Modernization Project, 18230 Kittridge Street, Reseda, California 91335. October 3.

SCAQMD, 2008. Multiple Air Toxics Exposure Study in the South Coast Air Basin. Available online at http://www.aqmd.gov/home/air-quality/air-quality-studies/health-studies/mates-iii/mates-iii-final-report

SFBRWQCB, 2019. *Environmental Screening Levels*. Available online at https://www.waterboards.ca.gov/sanfranciscobay/water_issues/programs/esl.html

USEPA, 2010. *Recommended Toxicity Equivalence Factors (TEFs) for Human Health Risk Assessments of 2,3,7,8-Tetrachlorodibenzo-p-dioxin and Dioxin-Like Compounds. EPA/100/R-10/005*.

USEPA, 2015. *OSWER technical guide for assessing and mitigating the vapor intrusion pathway from subsurface vapor sources to indoor air*. OSWER Publication 9200.2-154.

USEPA, 2018. *Regional Screening Levels for Chemical Contaminants at Superfund Sites*. November. Available online at https://www.epa.gov/risk/regional-screening-levels-rsls

TABLES

TABLE 1
ANALYTICAL RESULTS FOR POLYCHLORINATED BIPHENYLS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Sample ID	Sample Collection Date	PCB-1016	PCB-1221	PCB-1232	PCB-1242	PCB-1248	PCB-1254	PCB-1260
Units		**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
PSLs		**4,100**	**200**	**170**	**230**	**230**	**240**	**240**
AOC4-B1-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B1-5.0 DUP	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-B2-5.0	12/22/2017	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV6-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV6-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV8-5	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV8-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV9-15	3/26/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV9-15 DUP	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-5	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV10-15	3/26/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV11-5	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV11-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV12-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV12-15	5/12/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV13-5	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15	5/12/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV13-15DUP	5/12/2018	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48	ND<48
AOC4-SV14-5	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV14-15	9/10/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV15-5	9/10/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV15-15	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV15-15D	9/10/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV16-5	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV16-5D	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV16-15	10/6/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49
AOC4-SV17-5	10/6/2018	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50
AOC4-SV17-15	10/6/2018	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49	ND<49

NOTES:
ug/kg - micrograms/ kilogram
PCBs = polychlorinated biphenyls analyzed by Environmental Protection Agency Method 8082
ND = not detected
J = estimated at the value given
PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

TABLE 2
ANALYTICAL RESULTS FOR TOTAL PETROLEUM HYDROCARBONS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	GRO (C4-C12)	DRO (C13-C22)	ORO (C23-C40)
		Units	--	mg/kg	mg/kg	mg/kg
		USEPA Test Method	--	8015M	8015M	8015M
		SFB RWQCB ESL (human health)	--	429	255	12,033
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	<0.4	<5.0	**5.1**
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	<0.39	<5.0	**5.3**
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	<0.4	<5.0	**4.6J**
AOC4-SV6	AOC4-SV6-5	3/26/2018	5	<0.4	<5.0	**3.3JB**
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	<0.4	<5.0	**5.1B**
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	<0.4	<4.9	**21B**
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	<0.4	<4.9	**5.4B**
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	<0.4	<5.0	**3.2JB**
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	<0.4	<4.9	**2.8JB**
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	<0.39	<4.9	<4.9
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	<0.4	<4.9	**3.6JB**
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	<0.4	<4.9	<4.9
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	<0.4	<4.9	**5.9**
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	<0.4	<4.9	**3.2J**
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	<0.39	<4.9	**4.8J**
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	<0.4	<5.0	**3.7J**
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	<0.4	<4.9	**2.4J**
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	<0.4	<5.0	**2.5J**
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	<0.39	<5.0	<5.0
AOC4-SV14	AOC4-SV14-5	9/10/2018	5	<0.4	<4.9	**5.8B**
AOC4-SV14	AOC4-SV14-15	9/10/2018	15	<0.4	<4.9	**4.3J,B**
AOC4-SV15	AOC4-SV15-5	9/10/2018	5	<0.4	<4.9	**6.6B**
AOC4-SV15	AOC4-SV15-15	9/10/2018	15	<0.4	<4.9	**4.3J,B**
AOC4-SV15	AOC4-SV15-15D	9/10/2018	15	<0.39	<4.9	**4.0J,B**
AOC4-SV16	AOC4-SV16-5	10/6/2018	5	<0.4	<5.0	**4.3J**
AOC4-SV16	AOC4-SV16-5D	10/6/2018	5	<0.4	<5.0	**6.5**
AOC4-SV16	AOC4-SV16-15	10/6/2018	15	<0.4	<5.0	**3.2J**
AOC4-SV17	AOC4-SV17-5	10/6/2018	5	<0.4	**3.5J**	**10**
AOC4-SV17	AOC4-SV17-15	10/6/2018	15	<0.4	<5.0	**3.4J**

NOTES:

mg/kg - miligrams/ kilogram
DRO = diesel range organics
TPH = total petroleum hydrocarbons
ORO = oil range organics
GRO = gasoline range organics
ND = not detected

Per DTSC (2015) guidance, concentrations are compared to SFRWQCB (2019) risk-based direct contact screening levels.

Total petroleum hydrocarbons analyzed by Environmetnal Protection Agency Method 8015M

J = Result is less than the Reporting Limit but greater than or equal to the Method Detection Limit (concentration is an estimated value).

B = Compound was found in the blank and sample.

TABLE 3
ANALYTICAL RESULTS FOR VOLATILE ORGANIC COMPOUNDS IN SOIL
LAUSD Reseda High School Supplemental PEA Equivalent

Location	Sample ID	Sample Date	Sample Depth	Benzene	2-Butanone	Ethylbenzene	Napthalene	PCE	Toluene	1,2,3-Trichlorobenzene	All Other VOCs
Units			**ft bgs**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**	**µg/kg**
USEPA Test Method			**--**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**	**8260B**
PSL			**--**	**330**	**27,000,000**	**5,800**	**3,800**	**590**	**1,100,000**	**63,000**	**--**
AOC4-B1	AOC4-B1-5.0	12/22/2017	5	**1.8**	ND<9.2	ND<1.8	ND<4.6	ND<1.8	**2.0**	ND<4.6	ND
AOC4-B1	AOC4-B1-5.0 DUP	12/22/2017	5	**2.2**	ND<8.9	**0.94J**	ND<4.4	ND<1.8	**2.7**	ND<4.4	ND
AOC4-B2	AOC4-B2-5.0	12/22/2017	5	**2.5**	ND<11	ND<2.2	ND<5.5	ND<2.2	**2.0J**	ND<5.5	ND
AOC4-SV6	AOC4-SV6-5.0	3/26/2018	5	**3.2**	ND<9.4	**1.3J**	ND<4.7	ND<1.9	**3.9**	ND<4.7	ND
AOC4-SV6	AOC4-SV6-15	3/26/2018	15	**1.7J**	ND<10	ND<2.1	ND<5.2	ND<2.1	**1.5J**	ND<5.2	ND
AOC4-SV8	AOC4-SV8-5	3/26/2018	5	**1.6**	ND<8.0	**2.0**	ND<4.0	ND<1.6	**3.0**	ND<4.0	ND
AOC4-SV8	AOC4-SV8-15	3/26/2018	15	**1.7**	**5.9J**	**1.1J**	ND<4.3	ND<1.7	**2.3**	ND<4.3	ND
AOC4-SV9	AOC4-SV9-5	3/26/2018	5	**2.2**	ND<8.7	<1.7	ND<4.3	ND<1.7	**2.5**	ND<4.3	ND
AOC4-SV9	AOC4-SV9-15	3/26/2018	15	**1.0J**	ND<8.3	ND<1.7	ND<4.2	ND<1.7	**1.2J**	ND<4.2	ND
AOC4-SV9	AOC4-SV9-15 DUP	3/26/2018	15	**0.97J**	ND<9.1	ND<1.8	ND<4.5	ND<1.8	ND<1.5	ND<4.5	ND
AOC4-SV10	AOC4-SV10-5	3/26/2018	5	**2.3**	**6.1J**	**1.5J**	**1.7J**	**1.2J**	**2.9**	**0.97J**	ND
AOC4-SV10	AOC4-SV10-15	3/26/2018	15	**1.3J**	ND<8.2	ND<1.6	ND<4.1	ND<1.6	**1.2J**	ND<4.1	ND
AOC4-SV11	AOC4-SV11-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.1	ND<1.6	ND<1.6	ND<4.1	ND
AOC4-SV11	AOC4-SV11-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV12	AOC4-SV12-5	5/12/2018	5	ND<1.6	ND<8.1	ND<1.6	ND<4.0	ND<1.6	ND<1.6	ND<4.0	ND
AOC4-SV12	AOC4-SV12-15	5/12/2018	15	ND<1.6	ND<7.8	ND<1.6	ND<3.9	ND<1.6	ND<1.6	ND<3.9	ND
AOC4-SV13	AOC4-SV13-5	5/12/2018	5	ND<1.4	ND<7.1	ND<1.4	ND<3.6	ND<1.4	ND<1.4	ND<3.6	ND
AOC4-SV13	AOC4-SV13-15	5/12/2018	15	ND<1.5	ND<7.4	ND<1.5	ND<3.7	ND<1.5	ND<1.5	ND<3.7	ND
AOC4-SV13	AOC4-SV13-15DUP	5/12/2018	15	ND<1.4	ND<7.0	ND<1.4	ND<3.5	ND<1.4	ND<1.4	ND<3.5	ND
AOC4-SV14	AOC4-SV14-5	9/10/2018	5	ND<1.6	ND<8.2	ND<1.6	ND<4.1	ND<1.6	ND<1.6	ND<4.1	ND
AOC4-SV14	AOC4-SV14-15	9/10/2018	15	ND<1.5	ND<7.3	ND<1.5	ND<3.7	ND<1.5	ND<1.5	ND<3.7	ND
AOC4-SV15	AOC4-SV15-5	9/10/2018	5	ND<2.1	ND<10	ND<2.1	ND<5.1	ND<2.1	ND<2.1	ND<5.1	ND
AOC4-SV15	AOC4-SV15-15	9/10/2018	15	ND<1.5	ND<7.5	ND<1.5	ND<3.8	ND<1.5	ND<1.5	ND<3.8	ND
AOC4-SV15	AOC4-SV15-15D	9/10/2018	15	ND<1.7	ND<8.7	ND<1.7	ND<4.4	ND<1.7	ND<1.7	ND<4.4	ND
AOC4-SV16	AOC4-SV16-5	10/6/2018	5	ND<1.9	ND<9.3	ND<1.9	ND<4.7	ND<1.9	ND<1.9	ND<4.7	ND
AOC4-SV16	AOC4-SV16-5D	10/6/2018	5	ND<1.8	ND<9.2	ND<1.8	ND<4.6	ND<1.8	ND<1.8	ND<4.6	ND
AOC4-SV16	AOC4-SV16-15	10/6/2018	15	ND<1.7	ND<8.3	ND<1.7	ND<4.1	ND<1.7	ND<1.7	ND<4.1	ND
AOC4-SV17	AOC4-SV17-5	10/6/2018	5	ND<1.9	ND<9.4	ND<1.9	ND<4.7	ND<1.9	ND<1.9	ND<4.7	ND
AOC4-SV17	AOC4-SV17-15	10/6/2018	5	ND<1.8	ND<8.8	ND<1.8	ND<4.4	ND<1.8	ND<1.8	ND<4.4	ND

NOTES:
µg/kg - micrograms/ kilogram
Volatile organic compounds analyzed by Environmetnal Protection Agency Method 8260B
VOCs = Volatile organic compounds
PCE = tetrachloroethene
ND = not detected
PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Table 4
Soil Vapor Probe Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	1,2,4-Trimethylbenzene	Napthalene	Tetrachloroethene (PCE)	Other VOCs
Units		**ft**	**--**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**--**
Current Preliminary Screening Level				**97**	**63,000**	**83**	**460**	**--**
Future Preliminary Screening Level				**3.2**	**2,100**	**2.8**	**15**	**--**
AOC4-SV1	AOC4-SV1-5	5	1/3/2018	ND<8.0	ND<8.0	ND<40	259	See Lab Report
	AOC4-SV1-15	15	1/3/2018	ND<8.0	ND<8.0	ND<40	322	See Lab Report
	AOC4-SV1-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	226	See Lab Report
	AOC4-SV1-5 REP	5	2/27/2018	ND<8.0	ND<8.0	ND<40	195	See Lab Report
	AOC4-SV1-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	257	See Lab Report
	AOC4-SV1-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	252	See Lab Report
	AOC4-SV1-15	15	4/21/2018	ND<8.0	10	ND<40	294	See Lab Report
	AOC4-SV1-5	5	9/15/2018	ND<2	ND<7	ND<8	289	See Lab Report
	AOC4-SV1-15	15	9/15/2018	ND<2	ND<7	ND<8	292	See Lab Report
	AOC4-SV1-15REP	15	9/15/2018	ND<2	ND<7	ND<8	302	See Lab Report
AOC4-SV2	AOC4-SV2-5	5	1/3/2018	ND<8.0	ND<8.0	ND<40	186	See Lab Report
	AOC4-SV2-5 REP	5	1/3/2018	ND<8.0	ND<8.0	ND<40	197	See Lab Report
	AOC4-SV2-15	15	1/3/2018	ND<8.0	ND<8.0	ND<40	173	See Lab Report
	AOC4-SV2-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	149	See Lab Report
	AOC4-SV2-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	125	See Lab Report
AOC4-SV2	AOC4-SV2-5	5	9/15/2018	ND<2	ND<7	ND<8	311	See Lab Report
	AOC4-SV2-15	15	9/15/2018	ND<2	ND<7	ND<8	151	See Lab Report
AOC4-SV3	AOC4-SV3-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	322	See Lab Report
	AOC4-SV3-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	448	See Lab Report
	AOC4-SV3-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	416	See Lab Report
	AOC4-SV3-5 REP	5	4/21/2018	ND<8.0	ND<8.0	ND<40	455	See Lab Report
	AOC4-SV3-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	489	See Lab Report
AOC4-SV3	AOC4-SV3-5	5	9/15/2018	ND<2	ND<7	ND<8	728	See Lab Report
	AOC4-SV3-15	15	9/15/2018	ND<2	ND<7	ND<8	491	See Lab Report
AOC4-SV4	AOC4-SV4-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	118	See Lab Report
	AOC4-SV4-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	179	See Lab Report
AOC4-SV5	AOC4-SV5-5	5	2/27/2018	ND<8.0	ND<8.0	ND<40	ND<8.0	See Lab Report
	AOC4-SV5-15	15	2/27/2018	ND<8.0	ND<8.0	ND<40	11	See Lab Report
AOC4-SV5	AOC4-SV5-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	15	See Lab Report
	AOC4-SV5-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	11	See Lab Report
AOC4-SV6	AOC4-SV6-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	93	See Lab Report
	AOC4-SV6-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	147	See Lab Report
AOC4-SV6	AOC4-SV6-5	5	9/15/2018	ND<2	8 J	ND<8	196	See Lab Report
	AOC4-SV6-15	15	9/15/2018	ND<2	ND<7	15 J	174	See Lab Report
AOC4-SV8	AOC4-SV8-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	265	See Lab Report
	AOC4-SV8-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	387	See Lab Report
AOC4-SV8	AOC4-SV8-5	5	9/15/2018	ND<2	378	199	494	See Lab Report
	AOC4-SV8-15	15	9/15/2018	7 J	2440	774	458	See Lab Report
AOC4-SV9	AOC4-SV9-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	144	See Lab Report
	AOC4-SV9-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	146	See Lab Report
	AOC4-SV9-15 REP	15	4/21/2018	ND<8.0	ND<8.0	ND<40	150	See Lab Report
AOC4-SV9	AOC4-SV9-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	844	See Lab Report
	AOC4-SV9-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	680	See Lab Report
AOC4-SV10	AOC4-SV10-5	5	4/21/2018	ND<8.0	ND<8.0	ND<40	473	See Lab Report
	AOC4-SV10-15	15	4/21/2018	ND<8.0	ND<8.0	ND<40	465	See Lab Report
AOC4-SV10	AOC4-SV10-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	1440	See Lab Report
	AOC4-SV10-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	1110	See Lab Report
	AOC4-SV10-15REP	15	9/19/2018	ND<8.0	ND<8.0	ND<40	1070	See Lab Report
	AOC4-SV10-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	481	See Lab Report
	AOC4-SV10-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	414	See Lab Report
AOC4-SV11	AOC4-SV11-5	5	5/22/2018	28	ND<8.0	ND<40	296	See Lab Report
	AOC4-SV11-15	15	5/22/2018	ND<8.0	ND<8.0	ND<40	292	See Lab Report
AOC4-SV11	AOC4-SV11-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	1080	See Lab Report
	AOC4-SV11-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	911	See Lab Report

Table 4
Soil Vapor Probe Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	1,2,4-Trimethylbenzene	Napthalene	Tetrachloroethene (PCE)	Other VOCs
Units		**ft**	**--**	**ug/m3**	**ug/m3**	**ug/m3**	**ug/m3**	**--**
Current Preliminary Screening Level				**97**	**63,000**	**83**	**460**	**--**
Future Preliminary Screening Level				**3.2**	**2,100**	**2.8**	**15**	**--**
AOC4-SV12	AOC4-SV12-5	5	5/22/2018	ND<8.0	ND<8.0	ND<40	105	See Lab Report
	AOC4-SV12-15	15	5/22/2018	98	ND<8.0	ND<40	183	See Lab Report
AOC4-SV12	AOC4-SV12-5	5	1/3/2019	ND<8.0	ND<8.0	ND<40	36	See Lab Report
	AOC4-SV12-15	15	1/3/2019	ND<8.0	ND<8.0	ND<40	167	See Lab Report
AOC4-SV13	AOC4-SV13-5	5	5/22/2018	16	ND<8.0	ND<40	17	See Lab Report
	AOC4-SV13-5REP	5	5/22/2018	12	ND<8.0	ND<40	18	See Lab Report
	AOC4-SV13-15	15	5/22/2018	ND<8.0	ND<8.0	ND<40	35	See Lab Report
AOC4-SV13	AOC4-SV13-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	551	See Lab Report
	AOC4-SV13-15	15	9/19/2018	ND<8.0	ND<8.0	ND<40	722	See Lab Report
AOC4-SV14	AOC4-SV14-5	5	9/19/2018	ND<8.0	ND<8.0	ND<40	947	See Lab Report
	AOC4-SV14-15	15	9/19/2018	ND<8.0	9.0	ND<40	984	See Lab Report
AOC4-SV15	AOC4-SV15-5	5	9/15/2018	ND<2	ND<7	ND<8	683	See Lab Report
	AOC4-SV15-5REP	5	9/15/2018	ND<2	ND<7	ND<8	676	See Lab Report
	AOC4-SV15-15	15	9/15/2018	ND<2	ND<7	ND<8	463	See Lab Report
AOC4-SV16	AOC4-SV16-5	5	10/9/2018	0.4 J	1.8	3.0	2.8	See Lab Report
	AOC4-SV16-15	15	10/9/2018	0.4 J	ND<0.2	3.8	9.7	See Lab Report
	AOC4-SV16-15DUP	15	10/9/2018	0.5 J	3.0	3.7	8.7	See Lab Report
	AOC4-SV16-5	5	1/3/2019	ND<4	ND<3	ND<2	9	See Lab Report
	AOC4-SV16-15	15	1/3/2019	ND<4	ND<3	ND<2	15	See Lab Report
	AOC4-SV16-15DUP	15	1/3/2019	ND<4	ND<3	ND<2	13	See Lab Report
AOC4-SV17	AOC4-SV17-5	5	10/9/2018	0.4 J	1.9	3.4	1.7	See Lab Report
	AOC4-SV17-15	15	10/9/2018	0.4 J	1.9	4.0	3.1	See Lab Report
	AOC4-SV17-5	5	1/3/2019	ND<4	ND<3	ND<2	5 J	See Lab Report
	AOC4-SV17-15	15	1/3/2019	ND<4	ND<3	ND<2	ND<4	See Lab Report

Value Exceeds Screening Level

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Current PSL is residential air PSL divided by DTSC (2011) default attenuation factor of 0.001 for a future residential building

Future PSL is residential air PSL divided by USEPA (2015) default attenuation factor of 0.03

Table 5
Sub-Slab Sampling Analytical Results
LAUSD Reseda High School PEA Equivalent

Sample Location	Sample ID	Depth	Sample Date	Benzene	m,p-Xylene	o-Xylene	Tetrachloroethene (PCE)	Toluene
Units		ft	--	ug/m3	ug/m3	ug/m3	ug/m3	ug/m3
Current Preliminary Screening Level				1.9	2,000	2,000	9.2	6,200
Future Preliminary Screening Level				3.2	3,333	3,333	15	10,333
AOC4-SS1	AOC4-SS1	SS	5/22/2018	209	74	22	144	198
	AOC4-SS1	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	845	ND<8.0
AOC4-SS2	AOC4-SS2	SS	5/22/2018	38	ND<8.0	ND<8.0	446	45
	AOC4-SS2	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1050	ND<8.0
AOC4-SS3	AOC4-SS3	SS	5/22/2018	80	ND<8.0	ND<8.0	523	62
	AOC4-SS3	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1300	ND
	AOC4-SS3	SS	10/5/2018	ND<3.0	NR	NR	323	NR
	AO4-SS3 REP	SS	10/5/2018	ND<3.0	NR	NR	373	NR
	AOC4-SS3	SS	10/6/2018	ND<3.0	NR	NR	374	NR
	AOC4-SS3	SS	1/3/2019	ND<1.0	NR	NR	245	NR
AOC4-SS4	AOC4-SS4	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	757	ND<8.0
AOC4-SS5	AOC4-SS5	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	866	ND<8.0
	AOC4-SS5	SS	10/5/2018	ND<3.0	NR	NR	4.0	NR
	AOC4-SS5	SS	10/6/2018	ND<3.0	NR	NR	19	NR
	AOC4-SS5	SS	1/3/2019	ND<1.0	NR	NR	42.6	NR
AOC4-SS6	AOC4-SS6	SS	9/19/2018	NS	NS	NS	NS	NS
AOC4-SS7	AOC4-SS7	SS	9/19/2018	ND<8.0	ND<8.0	ND<8.0	1040	ND<8.0
	AOC4-SS7	SS	10/5/2018	ND<3.0	NR	NR	234	NR
	AOC4-SS7	SS	10/6/2018	ND<3.0	NR	NR	9.0*	NR
	AOC4-SS7	SS	1/3/2019	ND<1.0	NR	NR	122	NR
AOC4-SS8	AOC4-SS8	SS	9/15/2018	ND<2	ND<13	ND<8	566	ND<4
AOC4-SS9	AOC4-SS9	SS	9/15/2018	ND<2	ND<13	ND<8	438	ND<4
AOC4-SS10	AOC4-SS10	SS	9/15/2018	ND<2	ND<13	ND<8	18	ND<4
AOC4-SS11	AOC4-SS11	SS	9/15/2018	ND<2	ND<13	ND<8	73	ND<4
AOC4-SS12	AOC4-SS12	SS	9/15/2018	ND<8.0	ND	ND	109	ND<8.0
	AOC4-SS12	SS	10/5/2018	ND<3.0	NR	NR	89	NR
	AOC4-SS12	SS	10/6/2018	ND<3.0	NR	NR	127	NR
	AOC4-SS12	SS	1/3/2019	ND<1.0	NR	NR	79.6	NR
	AOC4-SS12 DUP	SS	1/3/2019	ND<1.0	NR	NR	85.2	NR

Value Exceeds Screening Level

Derivation of the screening levels is explained in text.

NS - unable to obtain sample due to no flow in probe

NR - analyte not reported.

* - tracer gas detected in sample

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

Current PSL is residential air PSL divided by DTSC (2011) default attenuation factor of 0.05 residential sub-slab samples

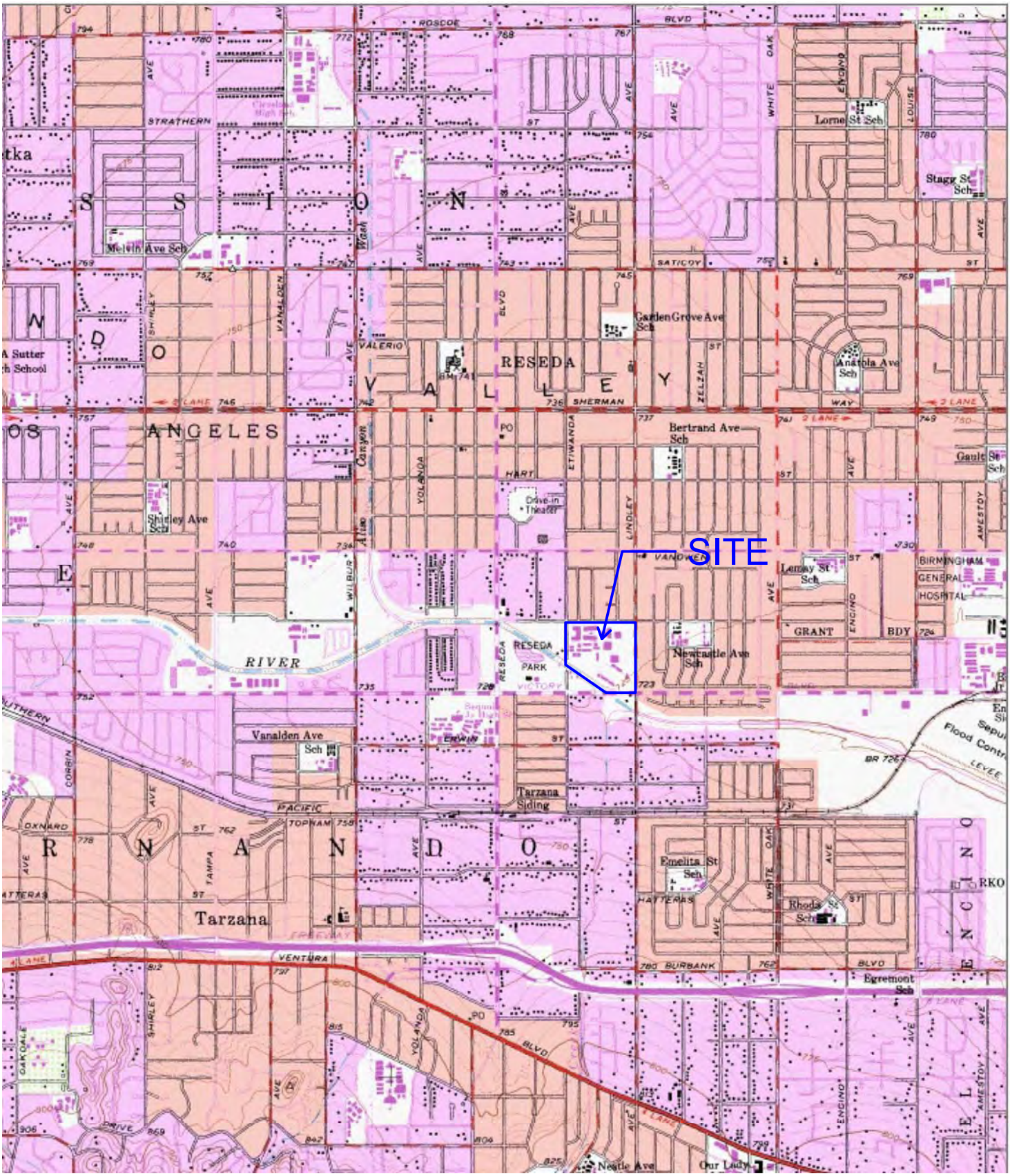
Future PSL is residential air PSL divided by USEPA (2015) default attenuation factor of 0.03

Table 6
Indoor/Outdoor Air Results
LAUSD Reseda High School Supplemental-PEA Equivalent

Sample Location	HVAC	Sample Date	Benzene	Tetrachloroethene (PCE)
Units		--	**ug/m3**	**ug/m3**
Residential PSL			**0.097**	**0.46**
Commercial/Industrial PSL			**0.42**	**2.0**
OAS-1	On	10/5/2018	0.38	0.13
	Off	10/6/2018	0.6	0.21
	On	1/3/2019	**1.85**	ND<0.10
OAS-2	On	10/5/2018	0.43	0.15
	Off	10/6/2018	0.61	0.20
	On	1/3/2019	**1.59**	ND<0.10
OAS-3	On	10/5/2018	0.42	0.15
	Off	10/6/2018	0.35	0.14
	On	1/3/2019	**1.56**	ND<0.10
IAS-1	On	10/5/2018	0.45	0.16
	Off	10/6/2018	0.96	0.25
	Off	10/6/2018	0.93	0.26
	On	1/3/2019	**2.33**	0.13
IAS-2	On	10/5/2018	0.44	0.22
	Off	10/6/2018	0.82	0.23
	On	1/3/2019	**1.97**	0.19
IAS-3	On	10/5/2018	0.46	0.3
	Off	10/6/2018	0.78	0.39
	On	1/3/2019	**1.95**	0.20
	On	1/3/2019	**1.84**	0.20
IAS-4	On	10/5/2018	0.44	0.15
	Off	10/6/2018	1.06	0.26
	On	1/3/2019	**1.34**	ND<0.10
UT-1		1/3/2019	**2.20**	0.12
UT-2		1/3/2019	**2.04**	0.11

PSL = Preliminary Screening Level; i.e., DTSC (2018) residential SLs, as supplemented by USEPA (2018) residential RSLs

FIGURES



Site

N

0 1,250 2,500

Scale In Feet

Figure 1

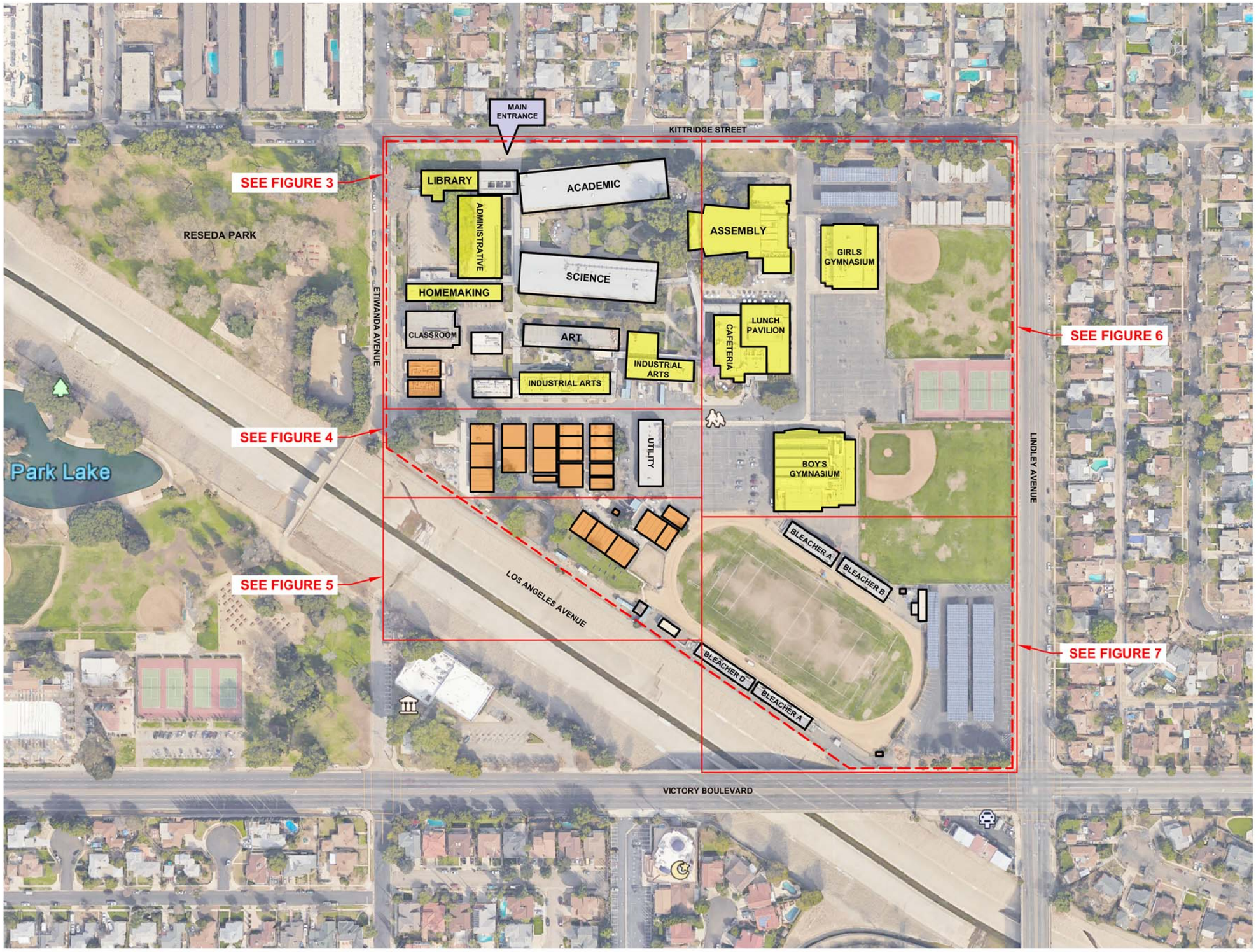
SITE LOCATION MAP

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda HS\PEA\Report\Supplemental Report\Figures\Figure 1 – Site Location Map.dwg



LEGEND

- SITE BOUNDARY
- BUILDING TO BE REMOVED
- PORTABLE STRUCTURE TO BE REMOVED

N

0 200

Scale In Feet

Figure 2

BUILDING LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

PARSONS

Pasadena, CA

K:\Depts\Dept48\LAUSD\MSA WORK\Reseda PEA\Report\Figures\Figure 2 – Building Locations.dwg

Figure 3
SOIL VAPOR and SUB-SLAB SAMPLING LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

LEGEND

- Sub-Slab Soil Vapor Sample Location
- Soil Vapor Sample Location
- Interior Wall
- Building Outline

PARSONS

Coordinate System:
WGS 1984 UTM Zone 11N

25 0 25 50 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Reseda\Mapfiles\2_SV_SSS_Locs.mxd Date: 2/7/2019

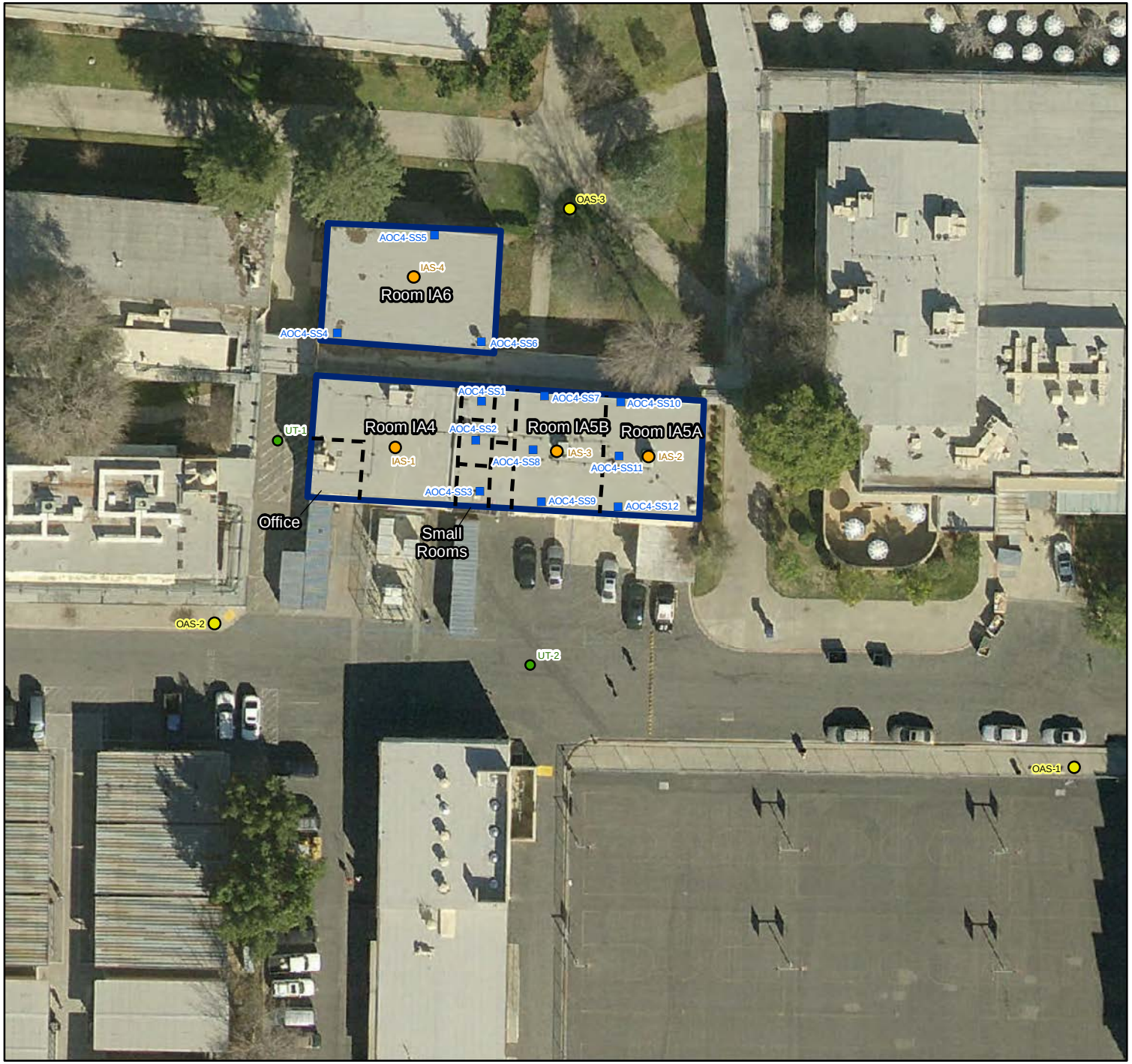


Figure 4
INDOOR/OUTDOOR AIR and SUB-SLAB SAMPLING LOCATIONS

Reseda High School
18230 Kittridge Street
Reseda, California

LEGEND

- Sub-Slab Soil Vapor Sample Location
- Indoor Air Sampling Location
- Outdoor (Ambient) Air Sampling Location
- Underground Service Tunnel Air Sample Location
- Interior Wall
- Building Outline

PARSONS

Coordinate System:
WGS 1984 UTM Zone 11N

25 0 25 50 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Reseda\Mapfiles\indoorair_subslab.mxd Date: 2/7/2019

Figure 5
TETRACHLOROETHENE IN SOIL VAPOR AT 5 FT BGS (January, 2019)

Reseda High School
18230 Kittridge Street
Reseda, California

LEGEND

- Soil Vapor Sample Location
- PCE Contour (100 ug/m^3 contour interval)
- Interior Wall
- Building Outline

NOTES:
NS = Not Sampled.
ND = Non-detect at the indicated reporting limit.
FT BGS = Feet Below Ground Surface
J = Estimated value
PCE units = ug/m^3
PCE Screening Levels (ug/m^3):

	Unrestricted/Residential	Industrial
Current	230	2,000
Future	15	67

The results for the following samples are from the indicated dates:

Sample Location	Sample Date
AOC4-SV1	9/15/2018
AOC4-SV2	9/15/2018
AOC4-SV3	9/15/2018
AOC4-SV4	2/27/2018
AOC4-SV5	1/3/2019
AOC4-SV6	9/15/2018
AOC4-SV8	9/15/2018
AOC4-SV9	9/19/2018
AOC4-SV10	9/19/2018
AOC4-SV11	9/19/2018
AOC4-SV12	5/22/2018
AOC4-SV13	9/19/2018
AOC4-SV14	9/19/2018
AOC4-SV15	9/19/2018
AOC4-SV16	1/3/2019
AOC4-SV17	1/3/2019
AOC5-SV1	1/3/2018
AOC5-SV2	1/3/2018

PARSONS

Coordinate System:
WGS 1984 UTM Zone 11N

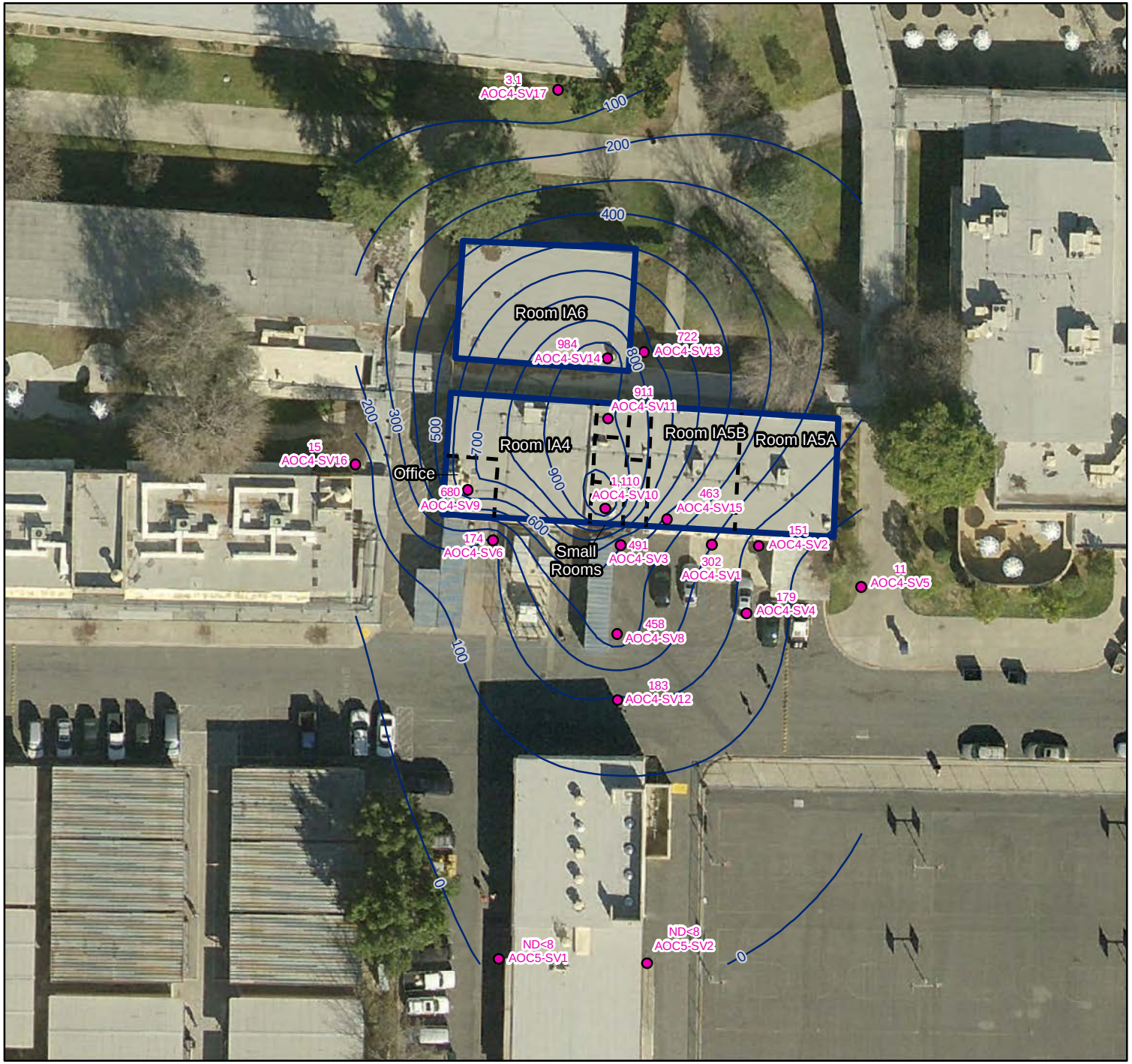
20 0 20 40 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Reseda\Mapfiles\2_PCE_5ft_jan2019.mxd Date: 2/20/2019

Figure 6
TETRACHLOROETHENE IN SOIL VAPOR AT 15 FT BGS (January, 2019)

Reseda High School
18230 Kittridge Street
Reseda, California



LEGEND

- Soil Vapor Sample Location
- PCE Contour (100 ug/m^3 contour interval)
- Interior Wall
- Building Outline

NOTES:
NS = Not Sampled.
ND = Non-detect at the indicated reporting limit.
FT BGS = Feet Below Ground Surface
PCE units = ug/m^3
PCE Screening Levels (ug/m^3):

	Unrestricted/Residential	Industrial
Current	230	2,000
Future	15	67

The results for the following samples are from the indicated dates:

Sample Location	Sample Date
AOC4-SV1	9/15/2018
AOC4-SV2	9/15/2018
AOC4-SV3	9/15/2018
AOC4-SV4	2/27/2018
AOC4-SV5	2/27/2018
AOC4-SV6	9/15/2018
AOC4-SV8	9/15/2018
AOC4-SV9	9/19/2018
AOC4-SV10	9/19/2018
AOC4-SV11	9/19/2018
AOC4-SV12	5/22/2018
AOC4-SV13	9/19/2018
AOC4-SV14	9/19/2018
AOC4-SV15	9/19/2018
AOC4-SV16	1/3/2019
AOC4-SV17	10/9/2018
AOC5-SV1	1/3/2018
AOC5-SV2	1/3/2018

PARSONS

Coordinate System:
WGS 1984 UTM Zone 11N

25 0 25 50 Feet

N

PATH: F:\GISCADD\projects\LAUSD_Reseda\Mapfiles\2_PCE_15ft_jan2019.mxd Date: 2/20/2019

APPENDIX A

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV14

Drilling Method: Hand auger

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: Asphalt 4" | Drilling: Start Date 9/10/18 Time 8:15AM; Finish Date 9/10/18 Time 3:00PM

Notes: 8-inches of concrete

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
							1	AF	SAND, clean backfill, AF sand.
							2		
							3		
							4		
					X		5	ML	Clayey SILT, dark yellowish brown (10YR 3/6), moderatly loose, moist.
							6		
							7		
							8		Same as above, brown (10YR 4/3), 15-20% fine grained sand.
							9		
							10		
							11		
							12		Same as above, increasing clay.
							13		
							14	CL	Silty CLAY, dark yellowish brown (10YR 3/4), medium plasticity when wet, moist.
					X		15		
							16	TD	
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV15

Drilling Method: Hand auger

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: Asphalt 4" | Drilling: Start Date 9/10/18 Time 8:15AM; Finish Date 9/10/18 Time 11:00AM

Notes: 8-inches of concrete

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	
							0		
								ML	SILT
							1		
							2		
							3		
							4		
					X		5		SILT, dark grayish brown (10YR 4/2), 25% fine grained sand, 10-15% clay, moderately dense, moist.
							6		
							7	SM	Silty SAND, brown (10YR 4/3), 75% fine grained sand, moderately dense, moist.
							8		
							9	ML	Sandy SILT, dark yellowish brown (10YR 4/4), 20% fine grained sand, 10-15% clay, moderately dense, moist.
							10		
							11		Clayey SILT, dark yellowish brown (10YR 3/6), 30-40% clay, 10-15% fine grained sand, moderately dense, moist.
							12		
							13		
							14		
					X		15		
							16	TD	
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV16

Drilling Method: Hand auger

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: dirt | Drilling: Start Date 10/6/18 Time 10:10AM; Finish Date 10/6/18 Time 11:00AM

Notes:

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, light brown, fine grained sand, moist, loose.
							1		
							2		
							3		
							4		
	10:24				X		5		
							6		
							7		
							8		
							9		
							10		
							11		
							12		
							13	ML	Sandy SILT, brown, fine grained sand, moist, dense, caliche.
							14		
	10:45				X		15	TD	
							16		
							17		
							18		
							19		
							20		

PARSONS **Field Boring Log**

Location of Boring/Well:

See Figure 3

Datum:

Job No.450810 | Client/Site: LAUSD, Reseda High School, Reseda, CA

Drilling Co.: Gregg Drilling | Boring/Well Number: AOC4-SV17

Drilling Method: Hand auger

Weather Conditions: Sunny/Dry | Sheet: 1 of 1

Surface Conditions: dirt | Drilling: Start Date 10/6/18 Time 08:20AM; Finish Date 10/6/18 Time 10:00AM

Geologist: P. Shair

Reviewed By:

Type of Instrument/Serial No.

Calibration Date/Gas:

Sample Container:

Sample Analyses:

Personal Sampling: ☐ No ☐ Yes

Person Sampled:

Sample No. / Sample Depth	Time	Sampler Blows	Inches Driven / % Recovery	Instrument: Auger	Instrument: Sample	Instrument: Breathing Zone	Depth in Feet	USCS Soil Type	Notes
							0	SM	Silty SAND, gray brown, trace gravel to 2", dry, loose.
							1		
							2		
							3		
							4		
	8:47				X		5		Same as above, with roots, moist.
							6		
							7		
							8		
							9		
							10	ML	SILT, brown, few sand, moist, dense, caliche.
							11		
							12		
							13	ML	Sandy SILT with clay, light brown, moist, dense, trace caliche.
							14		
	9:06				X		15	TD	
							16		
							17		
							18		
							19		
							20		

APPENDIX B

Date 10/5/18

Time	Wind Direction	OAS -1 location	OAS-2 location	OAS-3 location
0700	NW@ 3mph	As mapped	As mapped	As mapped
0800	NE@ 2mph	As mapped	As mapped	As mapped.
0930	NW @ 2mph	As mapped	Moved to corner of IA4 - SW	As mapped
1050	West@3mph	As maped	same as noted	As mapped
1100	west@3mph	moved 30ft south; 50ft E	Same as noted	As mapped
1200	no change	no change	no change	no change
1230	SE@3mph	no change	No change	no change
1330	~~S~~ SE ~~SW~~ @6mph	no change	no change	no change

Date 10/6/18

Time	Wind Direction	OAS -1 location	OAS-2 location	OAS-3 location
0700	SE @ 2 mph	As located end of day 10/5	As located end of day 10/5	As located end of day 10/5
0800	SE @ 3 mph	same	same	same
0900	SE @ 3 mph	same	same	same
1000	SSW @ 2 mph	same	same	same
1100	SSW @ 5 mph	same	same	same
1200	SSW @ 5 mph	same	same	same
1300	SSW @ 8 mph	same	same	same
1400	SSW @ 8 mph	same	same	same

Date 1-3-18

Time	Wind Direction	OAS-1 location	OAS-2 location	OAS-3 location
0700	3 mph N:NE	As mapped	corner of IAH-SW	As mapped
0800	4 mph N:NE	" "	" "	" "
0900	3mph S:SW	" "	" "	" "
1000	4mph W	" "	" "	" "
1100	" "	" "	" "	" "
1200	5mph W	" "	" "	" "
1300	7mph W	" "	" "	" "
1400	3mph W	" "	" "	" "
1500	4mph W	" "	" "	" "

APPENDIX C

Manifest

SOIL SAFE OF CA – TPST
Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment:	Responsible for Payment:	Transport Truck #:	Facility #:	Approval Number:	Load #
11/26/18		133876	A07	48582	1 OF 3

Generator and/or Consultant

Generator's Name and Billing Address:
L.A.U.S.D. - OEHS
333 S. BEAUDRY AVE., 21ST FLOOR
LOS ANGELES, CA 90017

Generator's Phone #: 213-241-3100
Person to Contact:
FAX#:
Customer Account Number:

Consultant's Name and Billing Address:

Consultant's Phone #:
Person to Contact:
FAX#:
Customer Account Number:

Generation Site (Transport from): *(name & address)*
LAUSD - RESEDA HIGH SCHOOL
18230 KITTRIDGE ST.
RESEDA, CA 91335

Site Phone #:
Person to Contact:
FAX#:

Designated Facility (Transport to): *(name & address)*
SOIL SAFE
12328 HIBISCUS AVENUE
ADELANTO, CA 92301

Facility Phone #: (800) 862-8001
Person to Contact: JOE PROVANSAL
FAX#: (760) 246-8004

Transporter Name and Mailing Address:
BELSHIRE
26071 TOWNE CENTRE DRIVE
FOOTHILL RANCH, CA 92610
BESI: 288695

Transporter's Phone #: 949-460-5200
CAR000183813
Person to Contact: LARRY MOOTHART
450847
FAX#: 949-460-5210
Customer Account Number

Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐	001 DM	SOIL	37706	37100	6.00
Sand ☐ Organic ☐ Clay ☐ Other ☐	0 - 10% ☐ 10 - 20% ☐ 20% - over ☐	Gas ☐ Diesel ☐ Other ☐					.30

List any exception to items listed above:
Scale Ticket # 1118309

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils descried in the Soil Data Sheet completed and certified by me/us for the Generation Site shown above and nothing has been added or done to such soil that would alter it in any way.

Print or Type Name: Generator ☐ Consultant ☐ Dane T Robinson REPRESENTING LAUSD
Signature and date:
Month 11 Day 09 Year 18

Transporter

Transporter's certification: I/We acknowledge receipt of the soil referenced above and certify that such soil is being delivered in exactly the same condition as when received. I/We further certify that the soil is being directly transported from the Generation Site to the Designated Facility without off-loading, adding to, subtracting from or in any way delaying delivery to such site.

Print or Type Name: Thomas Bush
Signature and date:
Month 11 Day 09 Year 18

Recycling Facility

Discrepancies:

Recycling Facility certifies the receipt of the soil covered by this manifest except as noted above.

Print or Type Name: 18230 Kit 1936978 J. PROVANSAL
Signature and date: 11-26-18

Please print or type.

TRANSPORTER COPY

APPENDIX D

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-4-18 / 06:30
Affiliation: Parsons Phone Number: 310-804-5793

Occupant Information

Occupant Name: ~~Kennedy~~ Reseda High School Room IA4 Interviewed: ☐ Yes ☑ No
Mailing Address: 18230 Kittridge St
City: Reseda State: Ca Zip Code:
Phone: Email:

Owner/Landlord Information (Check if same as occupant ☑)

Occupant Name: Interviewed: ☐ Yes ☐ No
Mailing Address:
City: State: Zip Code:
Phone: Email:

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☒ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☒ School

Building Characteristics

Approximate Building Age (years): 60 yrs Number of Stories: 1
Approximate Building Area (square feet): ~~2,625~~ 2,000 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☑ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☑ Concrete Cracks ☑ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☐ Yes	☑ No	
Is there smoking in the building?	☐ Yes	☑ No	
Is there new carpet or furniture?	☐ Yes	☑ No	Describe:
Have clothes or drapes been recently dry cleaned?	☐ Yes	☑ No	Describe:
Has painting or staining been done with the last six months?	☐ Yes	☑ No	Describe:
Has the building been recently remodeled?	☐ Yes	☑ No	Describe:
Has the building ever had a fire?	☐ Yes	☑ No	
Is there a hobby or craft area in the building?	☑ Yes	☐ No	Describe:
Is gun cleaner stored in the building?	☐ Yes	☐ No	
Is there a fuel oil tank on the property?	☐ Yes	☑ No	
Is there a septic tank on the property?	☐ Yes	☑ No	
Has the building been fumigated or sprayed for pests recently?	☐ Yes	☑ No	Describe:
Do any building occupants use solvents at work?	☐ Yes	☑ No	Describe:

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IA4

Address 18230 Kittridge St

City Reseda Room IA4

Field Investigator Justin L. Date 10-2-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0.0	Isopropyl Alcohol	Isopropyl Alcohol
0.0	Behr Deep Base	not listed
0.0	Windex	non listed
0.0	Honey Citrus: Shea Butter	not listed
0.0	Un.-Kleen Floor and Wall Cleaner	~~Pine-Sol~~ not listed
0.0	Liquid Hand Soap	none listed
0.0	NRA Match Grade Pellets	
0.0	Diabdo Basic Pellets	
0.0	Home Select Furnish Polish	

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-12-18 / 1130
Affiliation: _____ Phone Number: 310-809-5703

Occupant Information

Occupant Name: Room IA5 Interviewed: ☑ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☐)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☑ School

Building Characteristics

Approximate Building Age (years): _____ Number of Stories: _____
Approximate Building Area (square feet): _____ Number of Elevators: Ø

Foundation Type (Check appropriate boxes)

☑ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☑ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☐ Yes ☑ No	
Is there smoking in the building?	☐ Yes ☑ No	
Is there new carpet or furniture?	☐ Yes ☑ No	Describe: _____
Have clothes or drapes been recently dry cleaned?	☐ Yes ☑ No	Describe: _____
Has painting or staining been done with the last six months?	☐ Yes ☑ No	Describe: _____
Has the building been recently remodeled?	☐ Yes ☑ No	Describe: _____
Has the building ever had a fire?	☐ Yes ☑ No	
Is there a hobby or craft area in the building?	☐ Yes ☐ No	Describe: _____
Is gun cleaner stored in the building?	☐ Yes ☐ No	
Is there a fuel oil tank on the property?	☐ Yes ☐ No	
Is there a septic tank on the property?	☐ Yes ☐ No	
Has the building been fumigated or sprayed for pests recently?	☐ Yes ☐ No	Describe: _____
Do any building occupants use solvents at work?	☐ Yes ☐ No	Describe: _____

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IASA

Address 18230 Kittridge St

City Reseda

Field Investigator JVS. - K.S Date 10-2-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	NO products in Room	

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin King Date/Time Prepared: 10-4-18 1063U
Affiliation: Parsons Phone Number: 310-809-5703

Occupant Information

Occupant Name: Reseda High School Room IASB Interviewed: ☐ Yes ☑ No
Mailing Address: 18230 Kittridge St
City: Reseda State: Ca Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☑)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☑ School

Building Characteristics

Approximate Building Age (years): 60yrs Number of Stories: 1
Approximate Building Area (square feet): ~1,500 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☑ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☐ Yes	☑ No	
Is there smoking in the building?	☐ Yes	☑ No	
Is there new carpet or furniture?	☐ Yes	☑ No	Describe: _____
Have clothes or drapes been recently dry cleaned?	☐ Yes	☑ No	Describe: _____
Has painting or staining been done with the last six months?	☐ Yes	☑ No	Describe: _____
Has the building been recently remodeled?	☐ Yes	☑ No	Describe: _____
Has the building ever had a fire?	☐ Yes	☑ No	
Is there a hobby or craft area in the building?	☐ Yes	☑ No	Describe: _____
Is gun cleaner stored in the building?	☐ Yes	☑ No	
Is there a fuel oil tank on the property?	☐ Yes	☑ No	
Is there a septic tank on the property?	☐ Yes	☑ No	
Has the building been fumigated or sprayed for pests recently?	☐ Yes	☑ No	Describe: _____
Do any building occupants use solvents at work?	☐ Yes	☑ No	Describe: _____

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IASIS

Address 18230 Kittridge St

City Reseda

Field Investigator Justin Ky Date 10-2-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
0	Ghostly Fog Solution	none listed
0	Elmers Glue	none listed
0	Elemers NO wrinkle rubber cement	n-heptane
0	Helmsman Clear Gloss	Acetone, propane butane, hydrocarbon solvents
0	Boardwalk Heavy Duty glass cleaner	propane, Ethylene glycol butyl ether, Ethanol, n-butane
0	Old English Furniture Polish	none listed
0	Pledge	none listed
0	409	none listed
0	Haggerty Silver Foam	none listed
0	boardwalk Disinfecty wipes	none listed
0	Rustolium multipurpose paint	,
0	Toner Cartridges	none listed
0	Gunk Silicone spray	Petroleum distillate, 2-butoxy Ethanol
0	Rubber Roller Cleaner (Martin Yale)	petroleum distillate (naptha) 1-methoxy-2-propanol, Heptane glycol

Comments:

APPENDIX L - BUILDING SURVEY FORM

Preparer's Name: Justin king Date/Time Prepared: 10-4-18
Affiliation: Parsons Phone Number: _____

Occupant Information

Occupant Name: Reseda High School Room IA6 Interviewed: ☐ Yes ☑ No
Mailing Address: 18230 Kittridge St
City: Reseda State: Ca Zip Code: _____
Phone: _____ Email: _____

Owner/Landlord Information (Check if same as occupant ☑)

Occupant Name: _____ Interviewed: ☐ Yes ☐ No
Mailing Address: _____
City: _____ State: _____ Zip Code: _____
Phone: _____ Email: _____

Building Type (Check appropriate boxes)

☐ Residential ☐ Residential Duplex ☐ Apartment Building ☐ Mobile Home ☐ Commercial (office)
☐ Commercial (warehouse) ☐ Industrial ☐ Strip Mall ☐ Split Level ☐ Church ☑ School

Building Characteristics

Approximate Building Age (years): 60 yrs Number of Stories: 1
Approximate Building Area (square feet): 2400 Number of Elevators: 0

Foundation Type (Check appropriate boxes)

☑ Slab-on-Grade ☐ Crawl Space ☐ Basement

Basement Characteristics (Check appropriate boxes)

☐ Dirt Floor ☐ Sealed ☐ Wet Surfaces ☐ Sump Pump ☐ Concrete Cracks ☐ Floor Drains

Factors Influencing Indoor Air Quality

Is there an attached garage?	☐ Yes	☑ No	
Is there smoking in the building?	☐ Yes	☑ No	
Is there new carpet or furniture?	☐ Yes	☑ No	Describe: _____
Have clothes or drapes been recently dry cleaned?	☐ Yes	☑ No	Describe: _____
Has painting or staining been done with the last six months?	☐ Yes	☑ No	Describe: _____
Has the building been recently remodeled?	☐ Yes	☑ No	Describe: _____
Has the building ever had a fire?	☐ Yes	☑ No	
Is there a hobby or craft area in the building?	☑ Yes	☐ No	Describe: Science room
Is gun cleaner stored in the building?	☐ Yes	☑ No	
Is there a fuel oil tank on the property?	☐ Yes	☑ No	
Is there a septic tank on the property?	☐ Yes	☑ No	
Has the building been fumigated or sprayed for pests recently?	☐ Yes	☑ No	Describe: _____
Do any building occupants use solvents at work?	☑ Yes	☐ No	Describe: Science room

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IA6

Address 18230 Kittridge st

City Reseda

Field Investigator Justin King Date 10-4-18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	Lysol Disinfectant Spray	none listed
	Hach water iSoil Test kits	none listed
	Phosphate test solution	" "
	Clove oil	" "
	Toluidine Blue Buffer Solution	" "
	Bromobenzene container	Bromobenzene
	Pancreatin Enzyme	none listed
	Potassium Chromate	" "
	Potassium Hydroxide	" "
	Phosphate Buffer Solution	" "
	Isopropyl Alcohol	
	Pepsin	none listed
	Benedict's Qualitative Solution	" "
	Potassium Permanganate	" "
	Nitric Acid	" "
	Indophenol	" "
	Hydrochloric Acid	" "

Comments:

APPENDIX M – BUILDING SCREENING FORM

Occupant of Building Reseda High School Room IAG

Address 18230 Kittridge St

City Reseda

Field Investigator Justin King Date 10/4/18

Field Instrument Reading	Measurement Location (Ambient Air, Foundation Opening, or Consumer Product)	If Consumer Product, Potential Volatile Ingredients
	Glucose Standard	none listed
	Ink Eradicator	" "
	Hydrogen Peroxide	" "
	Iodine Solution	" "
	Glycerol	
	Caroline Blue	none listed
	Carnoy Fixative	ethanol
	Calcium Sulfate	none listed
	Acetone	acetone
	Sulfuric Acid	none listed
	Chromotagraphy Solvent	retroleum ether Acetone
	metranol	methanol
	Tris-Borate-EDTA	Tris-hydroxymethylaminomethane
	Ethanol	Ethanol
	Butanol	Butanol

Comments:

APPENDIX E

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-219730-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
9/18/2018 4:07:57 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 18
Method Summary 21
Lab Chronicle 22
QC Sample Results 24
QC Association Summary 42
Definitions/Glossary 45
Certification Summary 46
Chain of Custody 47
Receipt Checklists 48

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-219730-1	AOC4-SV15-5	Solid	09/10/18 08:10	09/10/18 13:20
440-219730-2	AOC4-SV15-15	Solid	09/10/18 09:15	09/10/18 13:20
440-219730-3	AOC4-SV15-15D	Solid	09/10/18 09:15	09/10/18 13:20
440-219730-4	AOC4-SV14-5	Solid	09/10/18 08:30	09/10/18 13:20
440-219730-5	AOC4-SV14-15	Solid	09/10/18 11:00	09/10/18 13:20
440-219730-6	EB-1	Water	09/10/18 10:30	09/10/18 13:20

Job ID: 440-219730-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-219730-1

Comments
No additional comments.

Receipt
The samples were received on 9/10/2018 1:20 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 5.1º C.

Receipt Exceptions
TB (440-219730-7) was listed on COC but was crossed out. The lab did receive this sample, and logged it in as Hold.

GC/MS VOA
Method(s) 8260B: The laboratory control sample (LCS) for analytical batch 440-498992 recovered outside control limits for Bromoform. This analyte was biased high in the LCS and was not detected in the associated samples; therefore, the data have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
Method(s) 8015B: Surrogate recoveries for the following samples were outside control limits: AOC4-SV14-5 (440-219730-4) and AOC4-SV14-15 (440-219730-5). Re-analysis was performed with concurring results. The re-analysis results have been reported.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-498584 and analytical batch 440-498686. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

Method(s) 8015B: The method blank for preparation batch 440-498978 and analytical batch 440-499059 contained C23-C40 above the method detection limit (MDL). This target analyte concentration was less than the reporting limit (RL); therefore, re-extraction and/or re-analysis of samples was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5 — Lab Sample ID: 440-219730-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	6.6	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV15-15 — Lab Sample ID: 440-219730-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV15-15D — Lab Sample ID: 440-219730-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.0	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV14-5 — Lab Sample ID: 440-219730-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	5.8	B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV14-15 — Lab Sample ID: 440-219730-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J B	4.9	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: EB-1 — Lab Sample ID: 440-219730-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Toluene	0.28	J	0.50	0.25	ug/L	1		8260B	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-5
Date Collected: 09/10/18 08:10
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromochloromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromodichloromethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Bromoform	ND	*	5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2-Butanone (MEK)	ND		10	5.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Carbon tetrachloride	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloroethane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloroform	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Chloromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2-Chlorotoluene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
4-Chlorotoluene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
cis-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
cis-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dibromochloromethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dibromo-3-Chloropropane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dibromoethane (EDB)	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dibromomethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,4-Dichlorobenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Dichlorodifluoromethane	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloroethene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
2,2-Dichloropropane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Ethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Hexachlorobutadiene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Isopropylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Methylene Chloride	ND		21	5.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Methyl-t-Butyl Ether (MTBE)	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
m,p-Xylene	ND		4.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Naphthalene	ND		5.1	2.1	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
n-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
N-Propylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
o-Xylene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
p-Isopropyltoluene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
sec-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Styrene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
tert-Butylbenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,1,2-Tetrachloroethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,2,2-Tetrachloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Tetrachloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Toluene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
trans-1,2-Dichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1

Client Sample ID: AOC4-SV15-5
Date Collected: 09/10/18 08:10
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,3-Trichlorobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,4-Trichlorobenzene	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,1-Trichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,1,2-Trichloroethane	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Trichloroethene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Trichlorofluoromethane	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,2,4-Trimethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
1,3,5-Trimethylbenzene	ND		2.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1
Vinyl chloride	ND		5.1	1.0	ug/Kg		09/10/18 14:26	09/14/18 11:39	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*	*09/10/18 14:26*	*09/14/18 11:39*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*09/10/18 14:26*	*09/14/18 11:39*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*09/10/18 14:26*	*09/14/18 11:39*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			09/14/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*73*		*65 - 140*		*09/14/18 14:55*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 13:18	1
ORO (C23-C40)	**6.6**	**B**	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 13:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*59*		*40 - 140*	*09/14/18 06:01*	*09/14/18 13:18*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 14:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*09/14/18 06:16*	*09/17/18 14:35*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15
Date Collected: 09/10/18 09:15
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromochloromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromodichloromethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Bromoform	ND	*	3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2-Butanone (MEK)	ND		7.5	3.8	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Carbon tetrachloride	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloroethane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloroform	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Chloromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2-Chlorotoluene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
4-Chlorotoluene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
cis-1,2-Dichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
cis-1,3-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dibromochloromethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dibromo-3-Chloropropane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dibromoethane (EDB)	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dibromomethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,4-Dichlorobenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Dichlorodifluoromethane	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloroethene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
2,2-Dichloropropane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Ethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Hexachlorobutadiene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Isopropylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Methylene Chloride	ND		15	3.8	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Methyl-t-Butyl Ether (MTBE)	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
m,p-Xylene	ND		3.0	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Naphthalene	ND		3.8	1.5	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
n-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
N-Propylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
o-Xylene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
p-Isopropyltoluene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
sec-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Styrene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
tert-Butylbenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,1,2-Tetrachloroethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Tetrachloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Toluene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
trans-1,2-Dichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1

Client Sample ID: AOC4-SV15-15
Date Collected: 09/10/18 09:15
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,3-Trichlorobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,4-Trichlorobenzene	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,1-Trichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,1,2-Trichloroethane	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Trichloroethene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Trichlorofluoromethane	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,3-Trichloropropane	ND		7.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,2,4-Trimethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
1,3,5-Trimethylbenzene	ND		1.5	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1
Vinyl chloride	ND		3.8	0.75	ug/Kg		09/10/18 14:26	09/14/18 12:03	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*09/10/18 14:26*	*09/14/18 12:03*	*1*
Dibromofluoromethane (Surr)	*113*		*60 - 120*	*09/10/18 14:26*	*09/14/18 12:03*	*1*
Toluene-d8 (Surr)	*102*		*79 - 123*	*09/10/18 14:26*	*09/14/18 12:03*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			09/14/18 15:23	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*77*		*65 - 140*		*09/14/18 15:23*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:38	1
ORO (C23-C40)	**4.3**	**J B**	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:38	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*09/14/18 06:01*	*09/14/18 16:38*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 14:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*09/14/18 06:16*	*09/17/18 14:48*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV15-15D
Date Collected: 09/10/18 09:15
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromochloromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromodichloromethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Bromoform	ND	*	4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2-Butanone (MEK)	ND		8.7	4.4	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Carbon tetrachloride	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloroethane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloroform	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Chloromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2-Chlorotoluene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
4-Chlorotoluene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
cis-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
cis-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dibromochloromethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dibromoethane (EDB)	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dibromomethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,4-Dichlorobenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Dichlorodifluoromethane	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloroethene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
2,2-Dichloropropane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Ethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Hexachlorobutadiene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Isopropylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Methylene Chloride	ND		17	4.4	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
m,p-Xylene	ND		3.5	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Naphthalene	ND		4.4	1.7	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
n-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
N-Propylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
o-Xylene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
p-Isopropyltoluene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
sec-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Styrene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
tert-Butylbenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Tetrachloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Toluene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
trans-1,2-Dichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1

Client Sample ID: AOC4-SV15-15D
Date Collected: 09/10/18 09:15
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-3
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,3-Trichlorobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,4-Trichlorobenzene	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,1-Trichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,1,2-Trichloroethane	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Trichloroethene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Trichlorofluoromethane	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,3-Trichloropropane	ND		8.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,2,4-Trimethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
1,3,5-Trimethylbenzene	ND		1.7	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1
Vinyl chloride	ND		4.4	0.87	ug/Kg		09/10/18 14:26	09/14/18 12:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*79 - 120*	*09/10/18 14:26*	*09/14/18 12:27*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*09/10/18 14:26*	*09/14/18 12:27*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*09/10/18 14:26*	*09/14/18 12:27*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		390	150	ug/Kg			09/14/18 15:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*67*		*65 - 140*		*09/14/18 15:52*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:16	1
ORO (C23-C40)	**4.0**	**J B**	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 16:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*40 - 140*	*09/14/18 06:01*	*09/14/18 16:16*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*46*		*45 - 120*	*09/14/18 06:16*	*09/17/18 15:02*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-5
Date Collected: 09/10/18 08:30
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromochloromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromodichloromethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Bromoform	ND	*	4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2-Butanone (MEK)	ND		8.2	4.1	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Carbon tetrachloride	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloroethane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloroform	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Chloromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2-Chlorotoluene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
4-Chlorotoluene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
cis-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
cis-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dibromochloromethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dibromoethane (EDB)	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dibromomethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,4-Dichlorobenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Dichlorodifluoromethane	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloroethene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
2,2-Dichloropropane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Ethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Hexachlorobutadiene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Isopropylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Methylene Chloride	ND		16	4.1	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
m,p-Xylene	ND		3.3	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Naphthalene	ND		4.1	1.6	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
n-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
N-Propylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
o-Xylene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
p-Isopropyltoluene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
sec-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Styrene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
tert-Butylbenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,2,2-Tetrachloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Tetrachloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Toluene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
trans-1,2-Dichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1

Client Sample ID: AOC4-SV14-5
Date Collected: 09/10/18 08:30
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,3-Trichlorobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,4-Trichlorobenzene	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,1-Trichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,1,2-Trichloroethane	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Trichloroethene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Trichlorofluoromethane	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,3-Trichloropropane	ND		8.2	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,2,4-Trimethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
1,3,5-Trimethylbenzene	ND		1.6	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1
Vinyl chloride	ND		4.1	0.82	ug/Kg		09/10/18 14:26	09/14/18 12:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*09/10/18 14:26*	*09/14/18 12:51*	*1*
Dibromofluoromethane (Surr)	*116*		*60 - 120*	*09/10/18 14:26*	*09/14/18 12:51*	*1*
Toluene-d8 (Surr)	*103*		*79 - 123*	*09/10/18 14:26*	*09/14/18 12:51*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			09/14/18 16:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*39*	*X*	*65 - 140*		*09/14/18 16:21*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:22	1
ORO (C23-C40)	**5.8**	**B**	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*71*		*40 - 140*	*09/14/18 06:01*	*09/14/18 17:22*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1221	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1232	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1242	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1248	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1254	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1
Aroclor 1260	ND		49	17	ug/Kg		09/14/18 06:16	09/17/18 15:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*49*		*45 - 120*	*09/14/18 06:16*	*09/17/18 15:15*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-15
Date Collected: 09/10/18 11:00
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromochloromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromodichloromethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Bromoform	ND	*	3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2-Butanone (MEK)	ND		7.3	3.7	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Carbon tetrachloride	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloroethane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloroform	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Chloromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2-Chlorotoluene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
4-Chlorotoluene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
cis-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
cis-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dibromochloromethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dibromo-3-Chloropropane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dibromoethane (EDB)	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dibromomethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,4-Dichlorobenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Dichlorodifluoromethane	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloroethene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
2,2-Dichloropropane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Ethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Hexachlorobutadiene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Isopropylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Methylene Chloride	ND		15	3.7	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Methyl-t-Butyl Ether (MTBE)	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
m,p-Xylene	ND		2.9	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Naphthalene	ND		3.7	1.5	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
n-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
N-Propylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
o-Xylene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
p-Isopropyltoluene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
sec-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Styrene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
tert-Butylbenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,1,2-Tetrachloroethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,2,2-Tetrachloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Tetrachloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Toluene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
trans-1,2-Dichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1

Client Sample ID: AOC4-SV14-15
Date Collected: 09/10/18 11:00
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,3-Trichlorobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,4-Trichlorobenzene	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,1-Trichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,1,2-Trichloroethane	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Trichloroethene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Trichlorofluoromethane	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,3-Trichloropropane	ND		7.3	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,2,4-Trimethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
1,3,5-Trimethylbenzene	ND		1.5	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1
Vinyl chloride	ND		3.7	0.73	ug/Kg		09/10/18 14:26	09/14/18 13:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*79 - 120*	*09/10/18 14:26*	*09/14/18 13:16*	*1*
Dibromofluoromethane (Surr)	*115*		*60 - 120*	*09/10/18 14:26*	*09/14/18 13:16*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*09/10/18 14:26*	*09/14/18 13:16*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			09/14/18 17:47	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*60*	*X*	*65 - 140*		*09/14/18 17:47*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:00	1
ORO (C23-C40)	**4.3**	**J B**	4.9	2.5	mg/Kg		09/14/18 06:01	09/14/18 17:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*47*		*40 - 140*	*09/14/18 06:01*	*09/14/18 17:00*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/17/18 15:28	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*51*		*45 - 120*	*09/14/18 06:16*	*09/17/18 15:28*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: EB-1
Date Collected: 09/10/18 10:30
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromochloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromodichloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Bromoform	ND		1.0	0.40	ug/L			09/15/18 03:14	1
Bromomethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			09/15/18 03:14	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chloroethane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
Chloroform	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Chloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dibromochloromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/15/18 03:14	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dibromomethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Ethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Isopropylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Methylene Chloride	ND		2.0	0.88	ug/L			09/15/18 03:14	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			09/15/18 03:14	1
m,p-Xylene	ND		1.0	0.50	ug/L			09/15/18 03:14	1
Naphthalene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
n-Butylbenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
N-Propylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
o-Xylene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Styrene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Tetrachloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Toluene	**0.28**	**J**	0.50	0.25	ug/L			09/15/18 03:14	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: EB-1
Date Collected: 09/10/18 10:30
Date Received: 09/10/18 13:20

Lab Sample ID: 440-219730-6
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Trichloroethene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			09/15/18 03:14	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			09/15/18 03:14	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/15/18 03:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*80 - 120*		*09/15/18 03:14*	*1*
Dibromofluoromethane (Surr)	*103*		*76 - 132*		*09/15/18 03:14*	*1*
Toluene-d8 (Surr)	*105*		*80 - 128*		*09/15/18 03:14*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			09/16/18 10:41	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*65 - 140*		*09/16/18 10:41*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.51	0.26	mg/L		09/12/18 14:12	09/13/18 03:27	1
ORO (C23-C40)	ND		0.51	0.26	mg/L		09/12/18 14:12	09/13/18 03:27	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*77*		*45 - 120*	*09/12/18 14:12*	*09/13/18 03:27*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1221	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1232	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1242	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1248	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1254	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1
Aroclor 1260	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 21:04	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*82*		*26 - 115*	*09/12/18 05:48*	*09/13/18 21:04*	*1*

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(79-120)	(60-120)	(79-123)
440-219566-A-4 MS	Matrix Spike	92	111	100
440-219566-A-4 MSD	Matrix Spike Duplicate	93	111	102
440-219730-1	AOC4-SV15-5	93	115	103
440-219730-2	AOC4-SV15-15	94	113	102
440-219730-3	AOC4-SV15-15D	91	115	100
440-219730-4	AOC4-SV14-5	94	116	103
440-219730-5	AOC4-SV14-15	94	115	100
LCS 440-498992/5	Lab Control Sample	93	109	103
MB 440-498992/4	Method Blank	90	113	105

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)
440-219730-6	EB-1	113	103	105
440-219838-A-1 MS	Matrix Spike	104	103	96
440-219838-A-1 MSD	Matrix Spike Duplicate	98	99	100
LCS 440-499147/5	Lab Control Sample	104	104	96
MB 440-499147/4	Method Blank	107	109	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-219730-1	AOC4-SV15-5	73
440-219730-2	AOC4-SV15-15	77
440-219730-3	AOC4-SV15-15D	67
440-219730-4	AOC4-SV14-5	39 X
440-219730-5	AOC4-SV14-15	60 X
440-219975-E-9 MS	Matrix Spike	88
440-219975-E-9 MSD	Matrix Spike Duplicate	97
LCS 440-498996/3	Lab Control Sample	110
LCSD 440-498996/4	Lab Control Sample Dup	106
MB 440-498996/5	Method Blank	103

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	BFB1 (65-140)
440-219730-6	EB-1	93
440-220206-A-1 MS	Matrix Spike	110
440-220206-A-1 MSD	Matrix Spike Duplicate	107
LCS 440-499265/28	Lab Control Sample	106
MB 440-499265/30	Method Blank	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (40-140)
440-219730-1	AOC4-SV15-5	59
440-219730-1 MS	AOC4-SV15-5	56
440-219730-1 MSD	AOC4-SV15-5	50
440-219730-2	AOC4-SV15-15	64
440-219730-3	AOC4-SV15-15D	66
440-219730-4	AOC4-SV14-5	71
440-219730-5	AOC4-SV14-15	47
LCS 440-498978/2-A	Lab Control Sample	80
MB 440-498978/1-A	Method Blank	81

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
Lab Sample ID	Client Sample ID	OTCN1 (45-120)
440-219730-6	EB-1	77
LCS 440-498584/2-A	Lab Control Sample	76
LCSD 440-498584/3-A	Lab Control Sample Dup	67
MB 440-498584/1-A	Method Blank	62

Surrogate Legend

OTCN = n-Octacosane

Surrogate Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-219730-1	AOC4-SV15-5	56
440-219730-2	AOC4-SV15-15	55
440-219730-3	AOC4-SV15-15D	46
440-219730-4	AOC4-SV14-5	49
440-219730-5	AOC4-SV14-15	51
440-219944-B-1-D MS	Matrix Spike	68
440-219944-B-1-E MSD	Matrix Spike Duplicate	88
LCS 440-498981/2-A	Lab Control Sample	95
MB 440-498981/1-A	Method Blank	95

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(26-115)
440-219730-6	EB-1	82
440-219741-K-10-B MSD	Matrix Spike Duplicate	76
440-219741-L-10-A MS	Matrix Spike	75
LCS 440-498472/5-A	Lab Control Sample	74
MB 440-498472/1-A	Method Blank	74

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Client Sample ID: AOC4-SV15-5

Lab Sample ID: 440-219730-1

Date Collected: 09/10/18 08:10

Matrix: Solid

Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			4.87 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 11:39	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	498996	09/14/18 14:55	YCL	TAL IRV
Total/NA	Prep	3546			15.27 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 13:18	LMB	TAL IRV
Total/NA	Prep	3546			15.12 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 14:35	JM	TAL IRV

Client Sample ID: AOC4-SV15-15

Lab Sample ID: 440-219730-2

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.64 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:03	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	498996	09/14/18 15:23	YCL	TAL IRV
Total/NA	Prep	3546			15.20 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 16:38	LMB	TAL IRV
Total/NA	Prep	3546			15.37 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 14:48	JM	TAL IRV

Client Sample ID: AOC4-SV15-15D

Lab Sample ID: 440-219730-3

Date Collected: 09/10/18 09:15

Matrix: Solid

Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.72 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:27	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.13 g	10 mL	498996	09/14/18 15:52	YCL	TAL IRV
Total/NA	Prep	3546			15.29 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 16:16	LMB	TAL IRV
Total/NA	Prep	3546			15.29 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:02	JM	TAL IRV

Client Sample ID: AOC4-SV14-5

Lab Sample ID: 440-219730-4

Date Collected: 09/10/18 08:30

Matrix: Solid

Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.11 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 12:51	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.05 g	10 mL	498996	09/14/18 16:21	YCL	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Client Sample ID: AOC4-SV14-5

Lab Sample ID: 440-219730-4

Date Collected: 09/10/18 08:30
Matrix: Solid
Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			15.29 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 17:22	LMB	TAL IRV
Total/NA	Prep	3546			15.42 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:15	JM	TAL IRV

Client Sample ID: AOC4-SV14-15

Lab Sample ID: 440-219730-5

Date Collected: 09/10/18 11:00
Matrix: Solid
Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.83 g	10 mL	499060	09/10/18 14:26	HR	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	498992	09/14/18 13:16	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.06 g	10 mL	498996	09/14/18 17:47	YCL	TAL IRV
Total/NA	Prep	3546			15.21 g	1 mL	498978	09/14/18 06:01	L1A	TAL IRV
Total/NA	Analysis	8015B		1			499059	09/14/18 17:00	LMB	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	498981	09/14/18 06:16	L1A	TAL IRV
Total/NA	Analysis	8082		1			499348	09/17/18 15:28	JM	TAL IRV

Client Sample ID: EB-1

Lab Sample ID: 440-219730-6

Date Collected: 09/10/18 10:30
Matrix: Water
Date Received: 09/10/18 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	499147	09/15/18 03:14	WC	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	499265	09/16/18 10:41	YCL	TAL IRV
Total/NA	Prep	3510C			245 mL	1 mL	498584	09/12/18 14:12	AJP	TAL IRV
Total/NA	Analysis	8015B		1			498686	09/13/18 03:27	LMB	TAL IRV
Total/NA	Prep	3510C			250 mL	2 mL	498472	09/12/18 05:48	L1H	TAL IRV
Total/NA	Analysis	8082		1			498839	09/13/18 21:04	JM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-498992/4
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Bromobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Bromoform	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			09/14/18 08:13	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Chloroethane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
Chloroform	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Chloromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dibromomethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Methylene Chloride	ND		20	5.0	ug/Kg			09/14/18 08:13	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			09/14/18 08:13	1
Naphthalene	ND		5.0	2.0	ug/Kg			09/14/18 08:13	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
o-Xylene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
Styrene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Toluene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-498992/4
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Trichloroethene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			09/14/18 08:13	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			09/14/18 08:13	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			09/14/18 08:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*90*		*79 - 120*		*09/14/18 08:13*	*1*
Dibromofluoromethane (Surr)	*113*		*60 - 120*		*09/14/18 08:13*	*1*
Toluene-d8 (Surr)	*105*		*79 - 123*		*09/14/18 08:13*	*1*

Lab Sample ID: LCS 440-498992/5
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	45.4		ug/Kg		91	65 - 120
Bromobenzene	50.0	51.9		ug/Kg		104	75 - 120
Bromochloromethane	50.0	59.1		ug/Kg		118	70 - 135
Bromodichloromethane	50.0	57.4		ug/Kg		115	70 - 135
Bromoform	50.0	73.2	*	ug/Kg		146	55 - 135
Bromomethane	50.0	45.8		ug/Kg		92	60 - 145
2-Butanone (MEK)	50.0	53.4		ug/Kg		107	40 - 145
Carbon tetrachloride	50.0	55.6		ug/Kg		111	65 - 140
Chlorobenzene	50.0	48.8		ug/Kg		98	75 - 120
Chloroethane	50.0	44.7		ug/Kg		89	60 - 140
Chloroform	50.0	53.0		ug/Kg		106	70 - 130
Chloromethane	50.0	36.3		ug/Kg		73	45 - 145
2-Chlorotoluene	50.0	43.8		ug/Kg		88	70 - 125
4-Chlorotoluene	50.0	42.6		ug/Kg		85	75 - 125
cis-1,2-Dichloroethene	50.0	51.1		ug/Kg		102	70 - 125
cis-1,3-Dichloropropene	50.0	54.6		ug/Kg		109	75 - 125
Dibromochloromethane	50.0	60.7		ug/Kg		121	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	47.0		ug/Kg		94	50 - 135
1,2-Dibromoethane (EDB)	50.0	55.5		ug/Kg		111	70 - 130
Dibromomethane	50.0	59.3		ug/Kg		119	70 - 130
1,2-Dichlorobenzene	50.0	45.6		ug/Kg		91	75 - 120
1,3-Dichlorobenzene	50.0	43.4		ug/Kg		87	75 - 125
1,4-Dichlorobenzene	50.0	44.0		ug/Kg		88	75 - 120
Dichlorodifluoromethane	50.0	42.4		ug/Kg		85	35 - 160
1,1-Dichloroethane	50.0	50.3		ug/Kg		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-498992/5
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	56.7		ug/Kg		113	60 - 140
1,1-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
1,2-Dichloropropane	50.0	53.8		ug/Kg		108	70 - 130
1,3-Dichloropropane	50.0	52.1		ug/Kg		104	70 - 125
2,2-Dichloropropane	50.0	52.3		ug/Kg		105	60 - 145
1,1-Dichloropropene	50.0	49.5		ug/Kg		99	70 - 130
Ethylbenzene	50.0	44.6		ug/Kg		89	70 - 125
Hexachlorobutadiene	50.0	64.9		ug/Kg		130	60 - 135
Isopropylbenzene	50.0	46.0		ug/Kg		92	75 - 130
Methylene Chloride	50.0	52.1		ug/Kg		104	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	54.5		ug/Kg		109	60 - 140
m,p-Xylene	50.0	50.1		ug/Kg		100	70 - 125
Naphthalene	50.0	45.5		ug/Kg		91	55 - 135
n-Butylbenzene	50.0	40.7		ug/Kg		81	70 - 130
N-Propylbenzene	50.0	41.2		ug/Kg		82	70 - 130
o-Xylene	50.0	50.4		ug/Kg		101	70 - 125
p-Isopropyltoluene	50.0	41.7		ug/Kg		83	75 - 125
sec-Butylbenzene	50.0	41.1		ug/Kg		82	70 - 125
Styrene	50.0	47.2		ug/Kg		94	75 - 130
tert-Butylbenzene	50.0	42.8		ug/Kg		86	70 - 125
1,1,1,2-Tetrachloroethane	50.0	57.3		ug/Kg		115	70 - 130
1,1,2,2-Tetrachloroethane	50.0	48.0		ug/Kg		96	55 - 140
Tetrachloroethene	50.0	53.3		ug/Kg		107	70 - 125
Toluene	50.0	44.5		ug/Kg		89	70 - 125
trans-1,2-Dichloroethene	50.0	50.7		ug/Kg		101	70 - 125
trans-1,3-Dichloropropene	50.0	55.4		ug/Kg		111	70 - 135
1,2,3-Trichlorobenzene	50.0	56.6		ug/Kg		113	60 - 130
1,2,4-Trichlorobenzene	50.0	52.1		ug/Kg		104	70 - 135
1,1,1-Trichloroethane	50.0	53.1		ug/Kg		106	65 - 135
1,1,2-Trichloroethane	50.0	53.8		ug/Kg		108	65 - 135
Trichloroethene	50.0	51.9		ug/Kg		104	70 - 125
Trichlorofluoromethane	50.0	50.3		ug/Kg		101	60 - 145
1,2,3-Trichloropropane	50.0	49.9		ug/Kg		100	60 - 135
1,2,4-Trimethylbenzene	50.0	42.7		ug/Kg		85	70 - 125
1,3,5-Trimethylbenzene	50.0	42.6		ug/Kg		85	70 - 125
Vinyl chloride	50.0	46.7		ug/Kg		93	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*
Dibromofluoromethane (Surr)	*109*		*60 - 120*
Toluene-d8 (Surr)	*103*		*79 - 123*

Lab Sample ID: 440-219566-A-4 MS
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.7	46.2		ug/Kg		93	65 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219566-A-4 MS
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	ND		49.7	52.2		ug/Kg		105	65 - 140
Bromochloromethane	ND		49.7	59.5		ug/Kg		120	65 - 145
Bromodichloromethane	ND		49.7	56.8		ug/Kg		114	65 - 145
Bromoform	ND	*	49.7	69.9		ug/Kg		141	50 - 145
Bromomethane	ND		49.7	47.2		ug/Kg		95	60 - 155
2-Butanone (MEK)	ND		49.7	54.5		ug/Kg		110	25 - 170
Carbon tetrachloride	ND		49.7	55.9		ug/Kg		112	60 - 145
Chlorobenzene	ND		49.7	47.5		ug/Kg		95	70 - 130
Chloroethane	ND		49.7	45.5		ug/Kg		92	60 - 150
Chloroform	ND		49.7	53.9		ug/Kg		108	65 - 135
Chloromethane	ND		49.7	38.3		ug/Kg		77	40 - 145
2-Chlorotoluene	ND		49.7	43.9		ug/Kg		88	60 - 135
4-Chlorotoluene	ND		49.7	41.5		ug/Kg		84	65 - 135
cis-1,2-Dichloroethene	ND		49.7	51.9		ug/Kg		104	65 - 135
cis-1,3-Dichloropropene	ND		49.7	53.2		ug/Kg		107	70 - 135
Dibromochloromethane	ND		49.7	58.2		ug/Kg		117	60 - 145
1,2-Dibromo-3-Chloropropane	ND		49.7	48.0		ug/Kg		97	40 - 150
1,2-Dibromoethane (EDB)	ND		49.7	53.9		ug/Kg		108	65 - 140
Dibromomethane	ND		49.7	57.2		ug/Kg		115	65 - 140
1,2-Dichlorobenzene	ND		49.7	46.7		ug/Kg		94	70 - 130
1,3-Dichlorobenzene	ND		49.7	43.2		ug/Kg		87	70 - 130
1,4-Dichlorobenzene	ND		49.7	43.9		ug/Kg		88	70 - 130
Dichlorodifluoromethane	ND		49.7	42.9		ug/Kg		86	30 - 160
1,1-Dichloroethane	ND		49.7	50.7		ug/Kg		102	65 - 135
1,2-Dichloroethane	ND		49.7	55.5		ug/Kg		112	60 - 150
1,1-Dichloroethene	ND		49.7	50.6		ug/Kg		102	65 - 135
1,2-Dichloropropane	ND		49.7	53.2		ug/Kg		107	65 - 130
1,3-Dichloropropane	ND		49.7	50.3		ug/Kg		101	65 - 140
2,2-Dichloropropane	ND		49.7	49.7		ug/Kg		100	65 - 150
1,1-Dichloropropene	ND		49.7	49.9		ug/Kg		100	65 - 135
Ethylbenzene	ND		49.7	43.0		ug/Kg		87	70 - 135
Hexachlorobutadiene	ND		49.7	63.5		ug/Kg		128	50 - 145
Isopropylbenzene	ND		49.7	44.8		ug/Kg		90	70 - 145
Methylene Chloride	ND		49.7	52.1		ug/Kg		105	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.7	53.4		ug/Kg		107	55 - 155
m,p-Xylene	ND		49.7	48.3		ug/Kg		97	70 - 130
Naphthalene	ND		49.7	44.4		ug/Kg		89	40 - 150
n-Butylbenzene	ND		49.7	40.9		ug/Kg		82	55 - 145
N-Propylbenzene	ND		49.7	41.4		ug/Kg		83	65 - 140
o-Xylene	ND		49.7	47.5		ug/Kg		96	65 - 130
p-Isopropyltoluene	ND		49.7	40.9		ug/Kg		82	60 - 140
sec-Butylbenzene	ND		49.7	39.9		ug/Kg		80	60 - 135
Styrene	ND		49.7	45.0		ug/Kg		91	70 - 140
tert-Butylbenzene	ND		49.7	43.0		ug/Kg		87	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.7	55.1		ug/Kg		111	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.7	48.3		ug/Kg		97	40 - 160
Tetrachloroethene	ND		49.7	50.0		ug/Kg		101	65 - 135
Toluene	ND		49.7	42.8		ug/Kg		86	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219566-A-4 MS
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	ND		49.7	52.0		ug/Kg		105	70 - 135
trans-1,3-Dichloropropene	ND		49.7	52.4		ug/Kg		105	60 - 145
1,2,3-Trichlorobenzene	1.8	J	49.7	55.4		ug/Kg		108	45 - 145
1,2,4-Trichlorobenzene	ND		49.7	52.7		ug/Kg		106	50 - 140
1,1,1-Trichloroethane	ND		49.7	53.6		ug/Kg		108	65 - 145
1,1,2-Trichloroethane	ND		49.7	52.8		ug/Kg		106	65 - 140
Trichloroethene	ND		49.7	52.4		ug/Kg		105	65 - 140
Trichlorofluoromethane	ND		49.7	50.3		ug/Kg		101	55 - 155
1,2,3-Trichloropropane	ND		49.7	51.2		ug/Kg		103	50 - 150
1,2,4-Trimethylbenzene	ND		49.7	41.8		ug/Kg		84	65 - 140
1,3,5-Trimethylbenzene	ND		49.7	42.8		ug/Kg		86	65 - 135
Vinyl chloride	ND		49.7	45.9		ug/Kg		92	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
Toluene-d8 (Surr)	*100*		*79 - 123*

Lab Sample ID: 440-219566-A-4 MSD
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		49.7	44.6		ug/Kg		90	65 - 130	4	20
Bromobenzene	ND		49.7	51.1		ug/Kg		103	65 - 140	2	25
Bromochloromethane	ND		49.7	60.8		ug/Kg		122	65 - 145	2	25
Bromodichloromethane	ND		49.7	57.3		ug/Kg		115	65 - 145	1	20
Bromoform	ND	*	49.7	71.0		ug/Kg		143	50 - 145	1	30
Bromomethane	ND		49.7	45.7		ug/Kg		92	60 - 155	3	25
2-Butanone (MEK)	ND		49.7	55.8		ug/Kg		112	25 - 170	2	40
Carbon tetrachloride	ND		49.7	55.5		ug/Kg		112	60 - 145	1	25
Chlorobenzene	ND		49.7	47.1		ug/Kg		95	70 - 130	1	25
Chloroethane	ND		49.7	43.6		ug/Kg		88	60 - 150	4	25
Chloroform	ND		49.7	53.5		ug/Kg		108	65 - 135	1	20
Chloromethane	ND		49.7	35.7		ug/Kg		72	40 - 145	7	25
2-Chlorotoluene	ND		49.7	42.9		ug/Kg		86	60 - 135	2	25
4-Chlorotoluene	ND		49.7	41.5		ug/Kg		83	65 - 135	0	25
cis-1,2-Dichloroethene	ND		49.7	50.7		ug/Kg		102	65 - 135	2	25
cis-1,3-Dichloropropene	ND		49.7	52.8		ug/Kg		106	70 - 135	1	25
Dibromochloromethane	ND		49.7	58.7		ug/Kg		118	60 - 145	1	25
1,2-Dibromo-3-Chloropropane	ND		49.7	46.5		ug/Kg		93	40 - 150	3	30
1,2-Dibromoethane (EDB)	ND		49.7	54.0		ug/Kg		109	65 - 140	0	25
Dibromomethane	ND		49.7	57.0		ug/Kg		115	65 - 140	0	25
1,2-Dichlorobenzene	ND		49.7	46.2		ug/Kg		93	70 - 130	1	25
1,3-Dichlorobenzene	ND		49.7	42.5		ug/Kg		85	70 - 130	2	25
1,4-Dichlorobenzene	ND		49.7	41.9		ug/Kg		84	70 - 130	5	25
Dichlorodifluoromethane	ND		49.7	41.2		ug/Kg		83	30 - 160	4	35
1,1-Dichloroethane	ND		49.7	49.7		ug/Kg		100	65 - 135	2	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219566-A-4 MSD
Matrix: Solid
Analysis Batch: 498992

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		49.7	55.3		ug/Kg		111	60 - 150	0	25
1,1-Dichloroethene	ND		49.7	47.3		ug/Kg		95	65 - 135	7	25
1,2-Dichloropropane	ND		49.7	53.0		ug/Kg		107	65 - 130	0	20
1,3-Dichloropropane	ND		49.7	51.1		ug/Kg		103	65 - 140	2	25
2,2-Dichloropropane	ND		49.7	54.2		ug/Kg		109	65 - 150	9	25
1,1-Dichloropropene	ND		49.7	48.9		ug/Kg		98	65 - 135	2	20
Ethylbenzene	ND		49.7	43.3		ug/Kg		87	70 - 135	1	25
Hexachlorobutadiene	ND		49.7	65.6		ug/Kg		132	50 - 145	3	35
Isopropylbenzene	ND		49.7	44.5		ug/Kg		90	70 - 145	1	25
Methylene Chloride	ND		49.7	52.6		ug/Kg		106	55 - 145	1	25
Methyl-t-Butyl Ether (MTBE)	ND		49.7	53.9		ug/Kg		108	55 - 155	1	35
m,p-Xylene	ND		49.7	48.0		ug/Kg		97	70 - 130	0	25
Naphthalene	ND		49.7	44.9		ug/Kg		90	40 - 150	1	40
n-Butylbenzene	ND		49.7	40.1		ug/Kg		81	55 - 145	2	30
N-Propylbenzene	ND		49.7	40.3		ug/Kg		81	65 - 140	3	25
o-Xylene	ND		49.7	47.4		ug/Kg		95	65 - 130	0	25
p-Isopropyltoluene	ND		49.7	41.0		ug/Kg		82	60 - 140	0	25
sec-Butylbenzene	ND		49.7	40.1		ug/Kg		81	60 - 135	0	25
Styrene	ND		49.7	46.2		ug/Kg		93	70 - 140	3	25
tert-Butylbenzene	ND		49.7	42.1		ug/Kg		85	60 - 140	2	25
1,1,1,2-Tetrachloroethane	ND		49.7	55.1		ug/Kg		111	65 - 145	0	20
1,1,2,2-Tetrachloroethane	ND		49.7	46.5		ug/Kg		94	40 - 160	4	30
Tetrachloroethene	ND		49.7	50.7		ug/Kg		102	65 - 135	1	25
Toluene	ND		49.7	42.8		ug/Kg		86	70 - 130	0	20
trans-1,2-Dichloroethene	ND		49.7	50.1		ug/Kg		101	70 - 135	4	25
trans-1,3-Dichloropropene	ND		49.7	54.4		ug/Kg		109	60 - 145	4	25
1,2,3-Trichlorobenzene	1.8	J	49.7	56.4		ug/Kg		110	45 - 145	2	30
1,2,4-Trichlorobenzene	ND		49.7	52.4		ug/Kg		106	50 - 140	1	30
1,1,1-Trichloroethane	ND		49.7	51.5		ug/Kg		104	65 - 145	4	20
1,1,2-Trichloroethane	ND		49.7	52.1		ug/Kg		105	65 - 140	1	30
Trichloroethene	ND		49.7	49.9		ug/Kg		100	65 - 140	5	25
Trichlorofluoromethane	ND		49.7	48.6		ug/Kg		98	55 - 155	3	25
1,2,3-Trichloropropane	ND		49.7	46.9		ug/Kg		94	50 - 150	9	30
1,2,4-Trimethylbenzene	ND		49.7	41.0		ug/Kg		82	65 - 140	2	25
1,3,5-Trimethylbenzene	ND		49.7	41.2		ug/Kg		83	65 - 135	4	25
Vinyl chloride	ND		49.7	44.6		ug/Kg		90	55 - 140	3	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*
Dibromofluoromethane (Surr)	*111*		*60 - 120*
Toluene-d8 (Surr)	*102*		*79 - 123*

Lab Sample ID: MB 440-499147/4
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-499147/4
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromochloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromodichloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Bromoform	ND		1.0	0.40	ug/L			09/14/18 19:13	1
Bromomethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			09/14/18 19:13	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chloroethane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
Chloroform	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Chloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dibromochloromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			09/14/18 19:13	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dibromomethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Ethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Isopropylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Methylene Chloride	ND		2.0	0.88	ug/L			09/14/18 19:13	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			09/14/18 19:13	1
m,p-Xylene	ND		1.0	0.50	ug/L			09/14/18 19:13	1
Naphthalene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
n-Butylbenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
N-Propylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
o-Xylene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Styrene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Tetrachloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Toluene	ND		0.50	0.25	ug/L			09/14/18 19:13	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-499147/4
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Trichloroethene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			09/14/18 19:13	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			09/14/18 19:13	1
Vinyl chloride	ND		0.50	0.25	ug/L			09/14/18 19:13	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*107*		*80 - 120*		*09/14/18 19:13*	*1*
Dibromofluoromethane (Surr)	*109*		*76 - 132*		*09/14/18 19:13*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*09/14/18 19:13*	*1*

Lab Sample ID: LCS 440-499147/5
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	26.0		ug/L		104	68 - 130
Bromobenzene	25.0	28.3		ug/L		113	70 - 130
Bromochloromethane	25.0	27.1		ug/L		108	70 - 130
Bromodichloromethane	25.0	30.6		ug/L		122	70 - 132
Bromoform	25.0	26.2		ug/L		105	60 - 148
Bromomethane	25.0	26.8		ug/L		107	64 - 139
2-Butanone (MEK)	25.0	26.6		ug/L		106	44 - 150
Carbon tetrachloride	25.0	27.9		ug/L		111	60 - 150
Chlorobenzene	25.0	24.5		ug/L		98	70 - 130
Chloroethane	25.0	26.0		ug/L		104	64 - 135
Chloroform	25.0	27.9		ug/L		111	70 - 130
Chloromethane	25.0	28.0		ug/L		112	47 - 140
2-Chlorotoluene	25.0	25.9		ug/L		104	70 - 130
4-Chlorotoluene	25.0	27.8		ug/L		111	70 - 130
cis-1,2-Dichloroethene	25.0	24.9		ug/L		99	70 - 133
cis-1,3-Dichloropropene	25.0	26.8		ug/L		107	70 - 133
Dibromochloromethane	25.0	28.3		ug/L		113	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	23.7		ug/L		95	52 - 140
1,2-Dibromoethane (EDB)	25.0	27.3		ug/L		109	70 - 130
Dibromomethane	25.0	26.9		ug/L		108	70 - 130
1,2-Dichlorobenzene	25.0	28.6		ug/L		114	70 - 130
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	70 - 130
1,4-Dichlorobenzene	25.0	26.3		ug/L		105	70 - 130
Dichlorodifluoromethane	25.0	28.3		ug/L		113	29 - 150
1,1-Dichloroethane	25.0	27.1		ug/L		108	64 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-499147/5
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	30.7		ug/L		123	57 - 138
1,1-Dichloroethene	25.0	27.7		ug/L		111	70 - 130
1,2-Dichloropropane	25.0	27.1		ug/L		108	67 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		104	70 - 130
2,2-Dichloropropane	25.0	27.8		ug/L		111	68 - 141
1,1-Dichloropropene	25.0	27.5		ug/L		110	70 - 130
Ethylbenzene	25.0	25.2		ug/L		101	70 - 130
Hexachlorobutadiene	25.0	26.3		ug/L		105	10 - 150
Isopropylbenzene	25.0	25.8		ug/L		103	70 - 136
Methylene Chloride	25.0	25.3		ug/L		101	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	28.0		ug/L		112	63 - 131
m,p-Xylene	25.0	25.6		ug/L		102	70 - 130
Naphthalene	25.0	22.5		ug/L		90	60 - 140
n-Butylbenzene	25.0	24.7		ug/L		99	65 - 150
N-Propylbenzene	25.0	26.3		ug/L		105	67 - 139
o-Xylene	25.0	26.2		ug/L		105	70 - 130
p-Isopropyltoluene	25.0	26.2		ug/L		105	70 - 132
sec-Butylbenzene	25.0	25.1		ug/L		101	70 - 138
Styrene	25.0	25.4		ug/L		102	70 - 134
tert-Butylbenzene	25.0	26.0		ug/L		104	70 - 130
1,1,1,2-Tetrachloroethane	25.0	27.3		ug/L		109	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.2		ug/L		97	63 - 130
Tetrachloroethene	25.0	24.0		ug/L		96	70 - 130
Toluene	25.0	25.2		ug/L		101	70 - 130
trans-1,2-Dichloroethene	25.0	25.3		ug/L		101	70 - 130
trans-1,3-Dichloropropene	25.0	27.3		ug/L		109	70 - 132
1,2,3-Trichlorobenzene	25.0	25.2		ug/L		101	60 - 140
1,2,4-Trichlorobenzene	25.0	24.5		ug/L		98	60 - 140
1,1,1-Trichloroethane	25.0	28.3		ug/L		113	70 - 130
1,1,2-Trichloroethane	25.0	28.0		ug/L		112	70 - 130
Trichloroethene	25.0	27.6		ug/L		110	70 - 130
Trichlorofluoromethane	25.0	27.5		ug/L		110	60 - 150
1,2,3-Trichloropropane	25.0	25.7		ug/L		103	63 - 130
1,2,4-Trimethylbenzene	25.0	25.6		ug/L		103	70 - 135
1,3,5-Trimethylbenzene	25.0	26.1		ug/L		104	70 - 136
Vinyl chloride	25.0	27.0		ug/L		108	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*104*		*76 - 132*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-219838-A-1 MS
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		25.0	26.2		ug/L		105	66 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219838-A-1 MS
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	ND		25.0	28.6		ug/L		114	70 - 130
Bromochloromethane	ND		25.0	28.4		ug/L		113	70 - 130
Bromodichloromethane	ND		25.0	30.1		ug/L		121	70 - 138
Bromoform	ND		25.0	26.2		ug/L		105	59 - 150
Bromomethane	ND		25.0	28.6		ug/L		114	62 - 131
2-Butanone (MEK)	ND		25.0	22.6		ug/L		90	48 - 140
Carbon tetrachloride	ND		25.0	29.9		ug/L		120	60 - 150
Chlorobenzene	ND		25.0	24.8		ug/L		99	70 - 130
Chloroethane	ND		25.0	28.1		ug/L		112	68 - 130
Chloroform	ND		25.0	28.5		ug/L		114	70 - 130
Chloromethane	ND		25.0	29.8		ug/L		119	39 - 144
2-Chlorotoluene	ND		25.0	27.7		ug/L		111	70 - 130
4-Chlorotoluene	ND		25.0	28.6		ug/L		114	70 - 130
cis-1,2-Dichloroethene	ND		25.0	26.6		ug/L		107	70 - 130
cis-1,3-Dichloropropene	ND		25.0	27.3		ug/L		109	70 - 133
Dibromochloromethane	ND		25.0	28.0		ug/L		112	70 - 148
1,2-Dibromo-3-Chloropropane	ND		25.0	24.5		ug/L		98	48 - 140
1,2-Dibromoethane (EDB)	ND		25.0	26.6		ug/L		106	70 - 131
Dibromomethane	ND		25.0	26.5		ug/L		106	70 - 130
1,2-Dichlorobenzene	ND		25.0	28.3		ug/L		113	70 - 130
1,3-Dichlorobenzene	ND		25.0	27.8		ug/L		111	70 - 130
1,4-Dichlorobenzene	ND		25.0	27.9		ug/L		112	70 - 130
Dichlorodifluoromethane	ND		25.0	29.6		ug/L		118	25 - 142
1,1-Dichloroethane	ND		25.0	29.3		ug/L		117	65 - 130
1,2-Dichloroethane	ND		25.0	30.5		ug/L		122	56 - 146
1,1-Dichloroethene	ND		25.0	28.3		ug/L		113	70 - 130
1,2-Dichloropropane	ND		25.0	28.3		ug/L		113	69 - 130
1,3-Dichloropropane	ND		25.0	25.3		ug/L		101	70 - 130
2,2-Dichloropropane	ND		25.0	30.5		ug/L		122	69 - 138
1,1-Dichloropropene	ND		25.0	28.5		ug/L		114	64 - 130
Ethylbenzene	ND		25.0	25.9		ug/L		104	70 - 130
Hexachlorobutadiene	ND		25.0	26.5		ug/L		106	10 - 150
Isopropylbenzene	ND		25.0	27.2		ug/L		109	70 - 132
Methylene Chloride	ND		25.0	26.3		ug/L		105	52 - 130
Methyl-t-Butyl Ether (MTBE)	1.1		25.0	28.9		ug/L		111	70 - 130
m,p-Xylene	ND		25.0	26.3		ug/L		105	70 - 133
Naphthalene	ND		25.0	23.1		ug/L		93	60 - 140
n-Butylbenzene	ND		25.0	27.2		ug/L		109	61 - 149
N-Propylbenzene	ND		25.0	28.9		ug/L		115	66 - 135
o-Xylene	ND		25.0	25.8		ug/L		103	70 - 133
p-Isopropyltoluene	ND		25.0	27.3		ug/L		109	70 - 130
sec-Butylbenzene	ND		25.0	27.0		ug/L		108	67 - 134
Styrene	ND		25.0	25.3		ug/L		101	29 - 150
tert-Butylbenzene	ND		25.0	27.2		ug/L		109	70 - 130
1,1,1,2-Tetrachloroethane	ND		25.0	26.4		ug/L		106	60 - 149
1,1,2,2-Tetrachloroethane	ND		25.0	25.1		ug/L		100	63 - 130
Tetrachloroethene	ND		25.0	26.6		ug/L		106	70 - 137
Toluene	ND		25.0	25.3		ug/L		101	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219838-A-1 MS
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	ND		25.0	24.4		ug/L		98	70 - 130
trans-1,3-Dichloropropene	ND		25.0	27.2		ug/L		109	70 - 138
1,2,3-Trichlorobenzene	ND		25.0	25.0		ug/L		100	60 - 140
1,2,4-Trichlorobenzene	ND		25.0	25.4		ug/L		102	60 - 140
1,1,1-Trichloroethane	ND		25.0	30.8		ug/L		123	70 - 130
1,1,2-Trichloroethane	ND		25.0	27.4		ug/L		109	70 - 130
Trichloroethene	ND		25.0	28.9		ug/L		116	70 - 130
Trichlorofluoromethane	ND		25.0	29.9		ug/L		120	60 - 150
1,2,3-Trichloropropane	ND		25.0	26.0		ug/L		104	60 - 130
1,2,4-Trimethylbenzene	ND		25.0	26.6		ug/L		106	70 - 130
1,3,5-Trimethylbenzene	ND		25.0	27.8		ug/L		111	70 - 130
Vinyl chloride	ND		25.0	29.3		ug/L		117	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*80 - 120*
Dibromofluoromethane (Surr)	*103*		*76 - 132*
Toluene-d8 (Surr)	*96*		*80 - 128*

Lab Sample ID: 440-219838-A-1 MSD
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		25.0	25.1		ug/L		100	66 - 130	5	20
Bromobenzene	ND		25.0	26.6		ug/L		106	70 - 130	7	20
Bromochloromethane	ND		25.0	26.8		ug/L		107	70 - 130	6	25
Bromodichloromethane	ND		25.0	28.7		ug/L		115	70 - 138	5	20
Bromoform	ND		25.0	27.5		ug/L		110	59 - 150	5	25
Bromomethane	ND		25.0	26.8		ug/L		107	62 - 131	7	25
2-Butanone (MEK)	ND		25.0	23.6		ug/L		94	48 - 140	4	40
Carbon tetrachloride	ND		25.0	27.6		ug/L		110	60 - 150	8	25
Chlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	4	20
Chloroethane	ND		25.0	25.9		ug/L		104	68 - 130	8	25
Chloroform	ND		25.0	26.8		ug/L		107	70 - 130	6	20
Chloromethane	ND		25.0	27.1		ug/L		108	39 - 144	10	25
2-Chlorotoluene	ND		25.0	25.1		ug/L		101	70 - 130	10	20
4-Chlorotoluene	ND		25.0	26.5		ug/L		106	70 - 130	7	20
cis-1,2-Dichloroethene	ND		25.0	24.4		ug/L		97	70 - 130	9	20
cis-1,3-Dichloropropene	ND		25.0	27.8		ug/L		111	70 - 133	2	20
Dibromochloromethane	ND		25.0	28.7		ug/L		115	70 - 148	2	25
1,2-Dibromo-3-Chloropropane	ND		25.0	24.1		ug/L		97	48 - 140	2	30
1,2-Dibromoethane (EDB)	ND		25.0	28.3		ug/L		113	70 - 131	6	25
Dibromomethane	ND		25.0	25.1		ug/L		101	70 - 130	5	25
1,2-Dichlorobenzene	ND		25.0	26.6		ug/L		106	70 - 130	6	20
1,3-Dichlorobenzene	ND		25.0	26.1		ug/L		104	70 - 130	7	20
1,4-Dichlorobenzene	ND		25.0	25.8		ug/L		103	70 - 130	8	20
Dichlorodifluoromethane	ND		25.0	28.5		ug/L		114	25 - 142	4	30
1,1-Dichloroethane	ND		25.0	28.3		ug/L		113	65 - 130	3	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-219838-A-1 MSD
Matrix: Water
Analysis Batch: 499147

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		25.0	29.9		ug/L		120	56 - 146	2	20
1,1-Dichloroethene	ND		25.0	26.3		ug/L		105	70 - 130	7	20
1,2-Dichloropropane	ND		25.0	26.9		ug/L		108	69 - 130	5	20
1,3-Dichloropropane	ND		25.0	27.1		ug/L		108	70 - 130	7	25
2,2-Dichloropropane	ND		25.0	28.8		ug/L		115	69 - 138	6	25
1,1-Dichloropropene	ND		25.0	27.5		ug/L		110	64 - 130	3	20
Ethylbenzene	ND		25.0	26.1		ug/L		104	70 - 130	1	20
Hexachlorobutadiene	ND		25.0	25.6		ug/L		102	10 - 150	3	20
Isopropylbenzene	ND		25.0	26.8		ug/L		107	70 - 132	2	20
Methylene Chloride	ND		25.0	26.1		ug/L		104	52 - 130	1	20
Methyl-t-Butyl Ether (MTBE)	1.1		25.0	28.7		ug/L		111	70 - 130	1	25
m,p-Xylene	ND		25.0	27.1		ug/L		108	70 - 133	3	25
Naphthalene	ND		25.0	22.7		ug/L		91	60 - 140	2	30
n-Butylbenzene	ND		25.0	24.1		ug/L		96	61 - 149	12	20
N-Propylbenzene	ND		25.0	25.8		ug/L		103	66 - 135	11	20
o-Xylene	ND		25.0	26.9		ug/L		108	70 - 133	4	20
p-Isopropyltoluene	ND		25.0	25.7		ug/L		103	70 - 130	6	20
sec-Butylbenzene	ND		25.0	25.0		ug/L		100	67 - 134	8	20
Styrene	ND		25.0	25.2		ug/L		101	29 - 150	0	35
tert-Butylbenzene	ND		25.0	25.2		ug/L		101	70 - 130	8	20
1,1,1,2-Tetrachloroethane	ND		25.0	27.9		ug/L		112	60 - 149	6	20
1,1,2,2-Tetrachloroethane	ND		25.0	24.9		ug/L		99	63 - 130	1	30
Tetrachloroethene	ND		25.0	25.2		ug/L		101	70 - 137	6	20
Toluene	ND		25.0	26.0		ug/L		104	70 - 130	3	20
trans-1,2-Dichloroethene	ND		25.0	23.1		ug/L		92	70 - 130	6	20
trans-1,3-Dichloropropene	ND		25.0	28.5		ug/L		114	70 - 138	4	25
1,2,3-Trichlorobenzene	ND		25.0	22.8		ug/L		91	60 - 140	9	20
1,2,4-Trichlorobenzene	ND		25.0	23.9		ug/L		96	60 - 140	6	20
1,1,1-Trichloroethane	ND		25.0	28.5		ug/L		114	70 - 130	8	20
1,1,2-Trichloroethane	ND		25.0	28.3		ug/L		113	70 - 130	3	25
Trichloroethene	ND		25.0	28.3		ug/L		113	70 - 130	2	20
Trichlorofluoromethane	ND		25.0	27.7		ug/L		111	60 - 150	8	25
1,2,3-Trichloropropane	ND		25.0	25.6		ug/L		102	60 - 130	1	30
1,2,4-Trimethylbenzene	ND		25.0	24.7		ug/L		99	70 - 130	8	25
1,3,5-Trimethylbenzene	ND		25.0	25.7		ug/L		103	70 - 130	8	20
Vinyl chloride	ND		25.0	27.7		ug/L		111	50 - 137	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*80 - 120*
Dibromofluoromethane (Surr)	*99*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-498996/5
Matrix: Solid
Analysis Batch: 498996

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			09/14/18 11:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*103*		*65 - 140*		*09/14/18 11:04*	*1*

Lab Sample ID: LCS 440-498996/3
Matrix: Solid
Analysis Batch: 498996

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1460		ug/Kg		91	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*65 - 140*

Lab Sample ID: LCSD 440-498996/4
Matrix: Solid
Analysis Batch: 498996

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1480		ug/Kg		93	70 - 135	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*

Lab Sample ID: 440-219975-E-9 MS
Matrix: Solid
Analysis Batch: 498996

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1600	1380		ug/Kg		86	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*88*		*65 - 140*

Lab Sample ID: 440-219975-E-9 MSD
Matrix: Solid
Analysis Batch: 498996

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1600	1370		ug/Kg		85	60 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 440-499265/30
Matrix: Water
Analysis Batch: 499265

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			09/16/18 10:12	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*		*09/16/18 10:12*	*1*

Lab Sample ID: LCS 440-499265/28
Matrix: Water
Analysis Batch: 499265

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	800	697		ug/L		87	80 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*65 - 140*

Lab Sample ID: 440-220206-A-1 MS
Matrix: Water
Analysis Batch: 499265

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
GRO (C4-C12)	ND		800	611		ug/L		76	65 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*110*		*65 - 140*

Lab Sample ID: 440-220206-A-1 MSD
Matrix: Water
Analysis Batch: 499265

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		800	630		ug/L		79	65 - 140	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-498584/1-A
Matrix: Water
Analysis Batch: 498686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		09/12/18 11:15	09/12/18 20:12	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		09/12/18 11:15	09/12/18 20:12	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-498584/1-A
Matrix: Water
Analysis Batch: 498686

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498584

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	62		45 - 120	09/12/18 11:15	09/12/18 20:12	1

Lab Sample ID: LCS 440-498584/2-A
Matrix: Water
Analysis Batch: 498686

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498584

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.603		mg/L		60	40 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	76		45 - 120

Lab Sample ID: LCSD 440-498584/3-A
Matrix: Water
Analysis Batch: 498686

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 498584

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.587		mg/L		59	40 - 115	3	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	67		45 - 120

Lab Sample ID: MB 440-498978/1-A
Matrix: Solid
Analysis Batch: 499059

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498978

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		09/14/18 06:01	09/14/18 12:35	1
ORO (C23-C40)	2.72	J	5.0	2.5	mg/Kg		09/14/18 06:01	09/14/18 12:35	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	81		40 - 140	09/14/18 06:01	09/14/18 12:35	1

Lab Sample ID: LCS 440-498978/2-A
Matrix: Solid
Analysis Batch: 499059

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498978

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	53.7		mg/Kg		81	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	80		40 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-219730-1 MS
Matrix: Solid
Analysis Batch: 499059

Client Sample ID: AOC4-SV15-5
Prep Type: Total/NA
Prep Batch: 498978

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	3.7	J	65.0	42.5		mg/Kg		60	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*56*		*40 - 140*

Lab Sample ID: 440-219730-1 MSD
Matrix: Solid
Analysis Batch: 499059

Client Sample ID: AOC4-SV15-5
Prep Type: Total/NA
Prep Batch: 498978

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	3.7	J	64.7	40.8		mg/Kg		57	40 - 120	4	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*50*		*40 - 140*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-498472/1-A
Matrix: Water
Analysis Batch: 498839

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498472

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1221	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1232	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1242	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1248	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1254	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1
Aroclor 1260	ND		1.0	0.50	ug/L		09/12/18 05:48	09/13/18 18:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*74*		*26 - 115*	*09/12/18 05:48*	*09/13/18 18:45*	*1*

Lab Sample ID: LCS 440-498472/5-A
Matrix: Water
Analysis Batch: 498839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498472

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	2.70		ug/L		67	50 - 115
Aroclor 1260	4.00	2.82		ug/L		70	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*74*		*26 - 115*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-219741-K-10-B MSD
Matrix: Water
Analysis Batch: 498839

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 498472

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		4.26	2.96		ug/L		70	45 - 120	1	30
Aroclor 1260	ND		4.26	3.17		ug/L		74	55 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*76*		*26 - 115*

Lab Sample ID: 440-219741-L-10-A MS
Matrix: Water
Analysis Batch: 498839

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 498472

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		4.35	2.99		ug/L		69	45 - 120
Aroclor 1260	ND		4.35	3.25		ug/L		75	55 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*75*		*26 - 115*

Lab Sample ID: MB 440-498981/1-A
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 498981

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1221	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1232	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1242	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1248	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1254	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1
Aroclor 1260	ND		50	17	ug/Kg		09/14/18 06:16	09/14/18 14:10	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*	*09/14/18 06:16*	*09/14/18 14:10*	*1*

Lab Sample ID: LCS 440-498981/2-A
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 498981

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	267	235		ug/Kg		88	65 - 115
Aroclor 1260	267	241		ug/Kg		90	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-219944-B-1-D MS
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 498981

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		264	193		ug/Kg		73	50 - 120
Aroclor 1260	ND		264	188		ug/Kg		71	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*68*		*45 - 120*

Lab Sample ID: 440-219944-B-1-E MSD
Matrix: Solid
Analysis Batch: 499072

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 498981

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		262	204		ug/Kg		78	50 - 120	5	30
Aroclor 1260	ND		262	177		ug/Kg		67	50 - 125	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*

GC/MS VOA

Analysis Batch: 498992

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8260B	499060
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8260B	499060
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8260B	499060
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8260B	499060
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8260B	499060
MB 440-498992/4	Method Blank	Total/NA	Solid	8260B	
LCS 440-498992/5	Lab Control Sample	Total/NA	Solid	8260B	
440-219566-A-4 MS	Matrix Spike	Total/NA	Solid	8260B	
440-219566-A-4 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Prep Batch: 499060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	5035	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	5035	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	5035	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	5035	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	5035	

Analysis Batch: 499147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8260B	
MB 440-499147/4	Method Blank	Total/NA	Water	8260B	
LCS 440-499147/5	Lab Control Sample	Total/NA	Water	8260B	
440-219838-A-1 MS	Matrix Spike	Total/NA	Water	8260B	
440-219838-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 498996

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8015B	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8015B	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8015B	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8015B	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8015B	
MB 440-498996/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-498996/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-498996/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-219975-E-9 MS	Matrix Spike	Total/NA	Solid	8015B	
440-219975-E-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

Analysis Batch: 499265

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8015B	
MB 440-499265/30	Method Blank	Total/NA	Water	8015B	
LCS 440-499265/28	Lab Control Sample	Total/NA	Water	8015B	
440-220206-A-1 MS	Matrix Spike	Total/NA	Water	8015B	
440-220206-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 498472

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	3510C	
MB 440-498472/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-498472/5-A	Lab Control Sample	Total/NA	Water	3510C	
440-219741-K-10-B MSD	Matrix Spike Duplicate	Total/NA	Water	3510C	
440-219741-L-10-A MS	Matrix Spike	Total/NA	Water	3510C	

Prep Batch: 498584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	3510C	
MB 440-498584/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-498584/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-498584/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 498686

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8015B	498584
MB 440-498584/1-A	Method Blank	Total/NA	Water	8015B	498584
LCS 440-498584/2-A	Lab Control Sample	Total/NA	Water	8015B	498584
LCSD 440-498584/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	498584

Analysis Batch: 498839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-6	EB-1	Total/NA	Water	8082	498472
MB 440-498472/1-A	Method Blank	Total/NA	Water	8082	498472
LCS 440-498472/5-A	Lab Control Sample	Total/NA	Water	8082	498472
440-219741-K-10-B MSD	Matrix Spike Duplicate	Total/NA	Water	8082	498472
440-219741-L-10-A MS	Matrix Spike	Total/NA	Water	8082	498472

Prep Batch: 498978

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	3546	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	3546	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	3546	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	3546	
MB 440-498978/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-498978/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-219730-1 MS	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-1 MSD	AOC4-SV15-5	Total/NA	Solid	3546	

Prep Batch: 498981

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	3546	
440-219730-2	AOC4-SV15-15	Total/NA	Solid	3546	
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	3546	
440-219730-4	AOC4-SV14-5	Total/NA	Solid	3546	
440-219730-5	AOC4-SV14-15	Total/NA	Solid	3546	
MB 440-498981/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-498981/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-219944-B-1-D MS	Matrix Spike	Total/NA	Solid	3546	
440-219944-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

QC Association Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Analysis Batch: 499059

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8015B	498978
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8015B	498978
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8015B	498978
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8015B	498978
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8015B	498978
MB 440-498978/1-A	Method Blank	Total/NA	Solid	8015B	498978
LCS 440-498978/2-A	Lab Control Sample	Total/NA	Solid	8015B	498978
440-219730-1 MS	AOC4-SV15-5	Total/NA	Solid	8015B	498978
440-219730-1 MSD	AOC4-SV15-5	Total/NA	Solid	8015B	498978

Analysis Batch: 499072

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 440-498981/1-A	Method Blank	Total/NA	Solid	8082	498981
LCS 440-498981/2-A	Lab Control Sample	Total/NA	Solid	8082	498981
440-219944-B-1-D MS	Matrix Spike	Total/NA	Solid	8082	498981
440-219944-B-1-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	498981

Analysis Batch: 499348

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-219730-1	AOC4-SV15-5	Total/NA	Solid	8082	498981
440-219730-2	AOC4-SV15-15	Total/NA	Solid	8082	498981
440-219730-3	AOC4-SV15-15D	Total/NA	Solid	8082	498981
440-219730-4	AOC4-SV14-5	Total/NA	Solid	8082	498981
440-219730-5	AOC4-SV14-15	Total/NA	Solid	8082	498981

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

GC VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits

GC Semi VOA

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-219730-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine: CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 206568

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: Justin King	Date: 9/10/18	COC No: 1 of 1 COCs
Company Name: Parsons	Tel/Fax: 626-440-6133	Lab Contact:	Carrier:	Sampler
Address: 100 W. Walnut St.	Analysis Turnaround Time: ☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only: Walk-in Client: Lab Sampling:
City/State/Zip: Pasadena CA 91124	TAT if different from Below: Std			Job / SDG No.
Phone: 626-440-6153	☐ 2 weeks ☐ 1 week ☐ 2 days ☐ 1 day			
Fax				
Project Name: Reseda High School				
Site: Reseda High School				
P O #				

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	GRO/DRO 8015B	PCB 8082	VOCs 8260B	Sample Specific Notes
AOC4-SV15-5	9/10/18	810	G	S	5			X	X	X	
AOC4-SV15-15	11	915	G	S	5			X	X	X	
AOC4-SV15-15D	11	915	G	S	5			X	X	X	
AOC4-SV14-5	11	830	G	S	5			X	X	X	
AOC4-SV14-15	11	1100	G	S	5			X	X	X	
EB-1	11	1030	G	W	9			X	X	X	
~~FB~~ PS	—	—	—	~~W~~						X	

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Return to Client ☒ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments:

Custody Seals Intact: ☐ Yes ☐ No | Custody Seal No: | Cooler Temp. (°C) Obs'd: 5.7 Corr'd: 5.1 Therm ID No: IR 5C6

Relinquished by	Company	Date/Time	Received by	Company	Date/Time
Peter Shar Peter S	Parsons	9/10/18 1137	Adonis Agkis	TestAmerica IRV	9/10/18 1137
Relinquished by: Adonis Agkis	Company: TestAmerica IRV	Date/Time: 9/10/18 1230	Received by:	Company:	Date/Time:
Relinquished by	Company	Date/Time	Received in Laboratory by:	Company: TA-IRV	Date/Time: 9/10/18 1330

Enclose or Temperature Frozen Date: 9/10/18 Time: 1426 Initials: AS

440-219730 Chain of Custody

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-219730-1

Login Number: 219730

List Source: TestAmerica Irvine

List Number: 1

Creator: Skinner, Alma D

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	False	Refer to Job Narrative for details.
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614-5817
Tel: (949)261-1022

TestAmerica Job ID: 440-221644-1
Client Project/Site: LAUSD Reseda H.S., CA

For:
Parsons Corporation
100 W Walnut Street
Pasadena, California 91124

Attn: Justin King

Authorized for release by:
10/15/2018 3:08:43 PM

Patty Mata, Senior Project Manager
(949)261-1022
patty.mata@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

The test results in this report meet all 2003 NELAC and 2009 TNI requirements for accredited parameters, exceptions are noted in this report. This report may not be reproduced except in full, and with written approval from the laboratory. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Table of Contents

Cover Page 1
Table of Contents 2
Sample Summary 3
Case Narrative 4
Detection Summary 5
Client Sample Results 6
Surrogate Summary 20
Method Summary 23
Lab Chronicle 24
QC Sample Results 26
QC Association Summary 45
Definitions/Glossary 48
Certification Summary 49
Chain of Custody 50
Receipt Checklists 51

Sample Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
440-221644-1	AOC4-SV17-5	Solid	10/06/18 08:47	10/06/18 14:05
440-221644-2	AOC4-SV17-15	Solid	10/06/18 09:06	10/06/18 14:05
440-221644-3	TB-20181006	Water	10/06/18 10:15	10/06/18 14:05
440-221644-4	AOC4-SV16-5	Solid	10/06/18 10:24	10/06/18 14:05
440-221644-5	AOC4-SV16-5D	Solid	10/06/18 10:30	10/06/18 14:05
440-221644-6	AOC4-SV16-15	Solid	10/06/18 10:45	10/06/18 14:05
440-221644-7	EB-20181006	Water	10/06/18 11:00	10/06/18 14:05

Job ID: 440-221644-1

Laboratory: TestAmerica Irvine

Narrative

Job Narrative
440-221644-1

Comments
No additional comments.

Receipt
The samples were received on 10/6/2018 2:05 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 4.4° C.

GC/MS VOA
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

GC VOA
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

GC Semi VOA
Method(s) 8015B: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-504060 and analytical batch 440-504496. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

Method(s) 8082: Surrogate recovery for the following sample was outside control limits: AOC4-SV17-5 (440-221644-1). Evidence of matrix interference is present; therefore, re-extraction and/or re-analysis was not performed.

Method(s) 8082: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 440-503698 and analytical batch 440-504021. The laboratory control sample (LCS) was performed in duplicate to provide precision data for the batch.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

Organic Prep
No analytical or quality issues were noted, other than those described above or in the Definitions/Glossary page.

VOA Prep
No analytical or quality issues were noted, other than those described in the Definitions/Glossary page.

Detection Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5 — Lab Sample ID: 440-221644-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C13-C22)	3.5	J	5.0	2.5	mg/Kg	1		8015B	Total/NA
ORO (C23-C40)	10		5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV17-15 — Lab Sample ID: 440-221644-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	3.4	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: TB-20181006 — Lab Sample ID: 440-221644-3

No Detections.

Client Sample ID: AOC4-SV16-5 — Lab Sample ID: 440-221644-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	4.3	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV16-5D — Lab Sample ID: 440-221644-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	6.5		5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: AOC4-SV16-15 — Lab Sample ID: 440-221644-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C23-C40)	3.2	J	5.0	2.5	mg/Kg	1		8015B	Total/NA

Client Sample ID: EB-20181006 — Lab Sample ID: 440-221644-7

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5
Date Collected: 10/06/18 08:47
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromochloromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromodichloromethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Bromoform	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2-Butanone (MEK)	ND		9.4	4.7	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Carbon tetrachloride	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloroethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloroform	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Chloromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2-Chlorotoluene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
4-Chlorotoluene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
cis-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
cis-1,3-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dibromochloromethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dibromoethane (EDB)	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dibromomethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,4-Dichlorobenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Dichlorodifluoromethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloroethene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
2,2-Dichloropropane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Ethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Hexachlorobutadiene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Isopropylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Methylene Chloride	ND		19	4.7	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
m,p-Xylene	ND		3.8	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Naphthalene	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
n-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
N-Propylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
o-Xylene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
p-Isopropyltoluene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
sec-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Styrene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
tert-Butylbenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Tetrachloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Toluene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
trans-1,2-Dichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1

Client Sample ID: AOC4-SV17-5
Date Collected: 10/06/18 08:47
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-1
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,3-Trichlorobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,4-Trichlorobenzene	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,1-Trichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,1,2-Trichloroethane	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Trichloroethene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Trichlorofluoromethane	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,3-Trichloropropane	ND		9.4	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,2,4-Trimethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
1,3,5-Trimethylbenzene	ND		1.9	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1
Vinyl chloride	ND		4.7	0.94	ug/Kg		10/06/18 20:00	10/09/18 11:46	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*112*		*79 - 120*	*10/06/18 20:00*	*10/09/18 11:46*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*	*10/06/18 20:00*	*10/09/18 11:46*	*1*
Toluene-d8 (Surr)	*100*		*79 - 123*	*10/06/18 20:00*	*10/09/18 11:46*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/14/18 12:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*91*		*65 - 140*		*10/14/18 12:15*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	**3.5**	**J**	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 16:30	1
ORO (C23-C40)	**10**		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 16:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*10/11/18 06:50*	*10/11/18 16:30*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*41*	*X*	*45 - 120*	*10/11/18 07:11*	*10/12/18 14:42*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-15
Date Collected: 10/06/18 09:06
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromochloromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromodichloromethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Bromoform	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2-Butanone (MEK)	ND		8.8	4.4	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Carbon tetrachloride	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloroethane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloroform	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Chloromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2-Chlorotoluene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
4-Chlorotoluene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
cis-1,2-Dichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
cis-1,3-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dibromochloromethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dibromo-3-Chloropropane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dibromoethane (EDB)	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dibromomethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,4-Dichlorobenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Dichlorodifluoromethane	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloroethene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
2,2-Dichloropropane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Ethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Hexachlorobutadiene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Isopropylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Methylene Chloride	ND		18	4.4	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Methyl-t-Butyl Ether (MTBE)	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
m,p-Xylene	ND		3.5	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Naphthalene	ND		4.4	1.8	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
n-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
N-Propylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
o-Xylene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
p-Isopropyltoluene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
sec-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Styrene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
tert-Butylbenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,1,2-Tetrachloroethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Tetrachloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Toluene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
trans-1,2-Dichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1

Client Sample ID: AOC4-SV17-15
Date Collected: 10/06/18 09:06
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-2
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,3-Dichloropropene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,3-Trichlorobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,4-Trichlorobenzene	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,1-Trichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,1,2-Trichloroethane	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Trichloroethene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Trichlorofluoromethane	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,3-Trichloropropane	ND		8.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,2,4-Trimethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
1,3,5-Trimethylbenzene	ND		1.8	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1
Vinyl chloride	ND		4.4	0.88	ug/Kg		10/06/18 20:00	10/09/18 12:13	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*86*		*79 - 120*	*10/06/18 20:00*	*10/09/18 12:13*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*10/06/18 20:00*	*10/09/18 12:13*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*10/06/18 20:00*	*10/09/18 12:13*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/14/18 13:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*		*10/14/18 13:40*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 20:37	1
ORO (C23-C40)	**3.4**	**J**	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*64*		*40 - 140*	*10/11/18 06:50*	*10/11/18 20:37*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1221	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1232	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1242	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1248	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1254	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1
Aroclor 1260	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 20:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*52*		*45 - 120*	*10/11/18 07:11*	*10/11/18 20:30*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: TB-20181006
Date Collected: 10/06/18 10:15
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-3
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 17:16	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 17:16	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 17:16	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 17:16	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 17:16	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 17:16	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 17:16	1

Client Sample ID: TB-20181006

Lab Sample ID: 440-221644-3

Date Collected: 10/06/18 10:15

Matrix: Water

Date Received: 10/06/18 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:16	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:16	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 17:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/13/18 17:16*	*1*
Dibromofluoromethane (Surr)	*104*		*76 - 132*		*10/13/18 17:16*	*1*
Toluene-d8 (Surr)	*100*		*80 - 128*		*10/13/18 17:16*	*1*

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Date Collected: 10/06/18 10:24

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromochloromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromodichloromethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Bromoform	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2-Butanone (MEK)	ND		9.3	4.7	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Carbon tetrachloride	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloroethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloroform	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Chloromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2-Chlorotoluene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
4-Chlorotoluene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
cis-1,2-Dichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
cis-1,3-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dibromochloromethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dibromo-3-Chloropropane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dibromoethane (EDB)	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dibromomethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,4-Dichlorobenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Dichlorodifluoromethane	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2-Dichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloroethene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5
Date Collected: 10/06/18 10:24
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-4
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
2,2-Dichloropropane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Ethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Hexachlorobutadiene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Isopropylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Methylene Chloride	ND		19	4.7	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Methyl-t-Butyl Ether (MTBE)	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
m,p-Xylene	ND		3.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Naphthalene	ND		4.7	1.9	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
n-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
N-Propylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
o-Xylene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
p-Isopropyltoluene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
sec-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Styrene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
tert-Butylbenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,1,2-Tetrachloroethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,2,2-Tetrachloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Tetrachloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Toluene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
trans-1,2-Dichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
trans-1,3-Dichloropropene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,3-Trichlorobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,4-Trichlorobenzene	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,1-Trichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,1,2-Trichloroethane	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Trichloroethene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Trichlorofluoromethane	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,3-Trichloropropane	ND		9.3	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,2,4-Trimethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
1,3,5-Trimethylbenzene	ND		1.9	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1
Vinyl chloride	ND		4.7	0.93	ug/Kg		10/06/18 20:00	10/09/18 12:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*92*		*79 - 120*	*10/06/18 20:00*	*10/09/18 12:40*	*1*
Dibromofluoromethane (Surr)	*104*		*60 - 120*	*10/06/18 20:00*	*10/09/18 12:40*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*10/06/18 20:00*	*10/09/18 12:40*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/14/18 14:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*65 - 140*		*10/14/18 14:08*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 18:54	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5

Date Collected: 10/06/18 10:24
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-4

Matrix: Solid

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	4.3	J	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 18:54	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*66*		*40 - 140*	*10/11/18 06:50*	*10/11/18 18:54*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/12/18 14:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*48*		*45 - 120*	*10/11/18 07:11*	*10/12/18 14:55*	*1*

Client Sample ID: AOC4-SV16-5D

Date Collected: 10/06/18 10:30
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-5

Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromochloromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromodichloromethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Bromoform	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2-Butanone (MEK)	ND		9.2	4.6	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Carbon tetrachloride	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloroethane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloroform	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Chloromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2-Chlorotoluene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
4-Chlorotoluene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
cis-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
cis-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dibromochloromethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dibromo-3-Chloropropane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dibromoethane (EDB)	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dibromomethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,4-Dichlorobenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Dichlorodifluoromethane	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2-Dichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloroethene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1

Client Sample ID: AOC4-SV16-5D
Date Collected: 10/06/18 10:30
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-5
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
2,2-Dichloropropane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Ethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Hexachlorobutadiene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Isopropylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Methylene Chloride	ND		18	4.6	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Methyl-t-Butyl Ether (MTBE)	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
m,p-Xylene	ND		3.7	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Naphthalene	ND		4.6	1.8	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
n-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
N-Propylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
o-Xylene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
p-Isopropyltoluene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
sec-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Styrene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
tert-Butylbenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,1,2-Tetrachloroethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,2,2-Tetrachloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Tetrachloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Toluene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
trans-1,2-Dichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
trans-1,3-Dichloropropene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,3-Trichlorobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,4-Trichlorobenzene	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,1-Trichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,1,2-Trichloroethane	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Trichloroethene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Trichlorofluoromethane	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,3-Trichloropropane	ND		9.2	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,2,4-Trimethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
1,3,5-Trimethylbenzene	ND		1.8	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1
Vinyl chloride	ND		4.6	0.92	ug/Kg		10/06/18 20:00	10/09/18 13:34	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*79 - 120*	*10/06/18 20:00*	*10/09/18 13:34*	*1*
Dibromofluoromethane (Surr)	*102*		*60 - 120*	*10/06/18 20:00*	*10/09/18 13:34*	*1*
Toluene-d8 (Surr)	*93*		*79 - 123*	*10/06/18 20:00*	*10/09/18 13:34*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/13/18 22:22	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*68*		*65 - 140*		*10/13/18 22:22*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:35	1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	6.5		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*90*		*40 - 140*	*10/11/18 06:50*	*10/11/18 19:35*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 20:57	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*55*		*45 - 120*	*10/11/18 07:11*	*10/11/18 20:57*	*1*

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromochloromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromodichloromethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Bromoform	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2-Butanone (MEK)	ND		8.3	4.1	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Carbon tetrachloride	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloroethane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloroform	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Chloromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2-Chlorotoluene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
4-Chlorotoluene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
cis-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
cis-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dibromochloromethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dibromo-3-Chloropropane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dibromoethane (EDB)	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dibromomethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,4-Dichlorobenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Dichlorodifluoromethane	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2-Dichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloroethene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1

Client Sample ID: AOC4-SV16-15
Date Collected: 10/06/18 10:45
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-6
Matrix: Solid

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
2,2-Dichloropropane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Ethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Hexachlorobutadiene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Isopropylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Methylene Chloride	ND		17	4.1	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Methyl-t-Butyl Ether (MTBE)	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
m,p-Xylene	ND		3.3	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Naphthalene	ND		4.1	1.7	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
n-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
N-Propylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
o-Xylene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
p-Isopropyltoluene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
sec-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Styrene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
tert-Butylbenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,1,2-Tetrachloroethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,2,2-Tetrachloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Tetrachloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Toluene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
trans-1,2-Dichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
trans-1,3-Dichloropropene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,3-Trichlorobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,4-Trichlorobenzene	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,1-Trichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,1,2-Trichloroethane	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Trichloroethene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Trichlorofluoromethane	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,3-Trichloropropane	ND		8.3	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,2,4-Trimethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
1,3,5-Trimethylbenzene	ND		1.7	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1
Vinyl chloride	ND		4.1	0.83	ug/Kg		10/06/18 20:00	10/09/18 14:01	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*79 - 120*	*10/06/18 20:00*	*10/09/18 14:01*	*1*
Dibromofluoromethane (Surr)	*101*		*60 - 120*	*10/06/18 20:00*	*10/09/18 14:01*	*1*
Toluene-d8 (Surr)	*97*		*79 - 123*	*10/06/18 20:00*	*10/09/18 14:01*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/14/18 14:36	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*		*10/14/18 14:36*	*1*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:55	1

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
ORO (C23-C40)	3.2	J	5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 19:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*89*		*40 - 140*	*10/11/18 06:50*	*10/11/18 19:55*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1221	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1232	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1242	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1248	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1254	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1
Aroclor 1260	ND		49	17	ug/Kg		10/11/18 07:11	10/11/18 21:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*56*		*45 - 120*	*10/11/18 07:11*	*10/11/18 21:10*	*1*

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

Method: 8260B - Volatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 17:45	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 17:45	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 17:45	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: EB-20181006
Date Collected: 10/06/18 11:00
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-7
Matrix: Water

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 17:45	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 17:45	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 17:45	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 17:45	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 17:45	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 17:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*		*10/13/18 17:45*	*1*
Dibromofluoromethane (Surr)	*101*		*76 - 132*		*10/13/18 17:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 128*		*10/13/18 17:45*	*1*

Method: 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			10/14/18 14:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*		*10/14/18 14:49*	*1*

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: EB-20181006
Date Collected: 10/06/18 11:00
Date Received: 10/06/18 14:05

Lab Sample ID: 440-221644-7
Matrix: Water

Method: 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.52	0.26	mg/L		10/10/18 10:33	10/11/18 21:05	1
ORO (C23-C40)	ND		0.52	0.26	mg/L		10/10/18 10:33	10/11/18 21:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
n-Octacosane	*84*		*45 - 120*	*10/10/18 10:33*	*10/11/18 21:05*	*1*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1221	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1232	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1242	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1248	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1254	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1
Aroclor 1260	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 13:19	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*26 - 115*	*10/09/18 06:24*	*10/10/18 13:19*	*1*

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(79-120)	(60-120)	(79-123)
440-221605-B-9 MS	Matrix Spike	96	104	95
440-221605-B-9 MSD	Matrix Spike Duplicate	101	102	93
440-221644-1	AOC4-SV17-5	112	98	100
440-221644-2	AOC4-SV17-15	86	102	93
440-221644-4	AOC4-SV16-5	92	104	93
440-221644-5	AOC4-SV16-5D	97	102	93
440-221644-6	AOC4-SV16-15	88	101	97
LCS 440-503694/6	Lab Control Sample	96	99	90
MB 440-503694/5	Method Blank	93	98	94

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8260B - Volatile Organic Compounds (GC/MS)

Matrix: Water — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)		
		BFB	DBFM	TOL
Lab Sample ID	Client Sample ID	(80-120)	(76-132)	(80-128)
440-221644-3	TB-20181006	97	104	100
440-221644-7	EB-20181006	94	101	99
440-221818-A-18 MS	Matrix Spike	94	97	100
440-221818-A-18 MSD	Matrix Spike Duplicate	95	97	100
LCS 440-504839/5	Lab Control Sample	96	96	101
MB 440-504839/4	Method Blank	97	98	104

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
TOL = Toluene-d8 (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid — **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-221644-1	AOC4-SV17-5	91
440-221644-1 MS	AOC4-SV17-5	95
440-221644-1 MSD	AOC4-SV17-5	113
440-221644-2	AOC4-SV17-15	100
440-221644-4	AOC4-SV16-5	94
440-221644-5	AOC4-SV16-5D	68
440-221644-6	AOC4-SV16-15	97
440-221711-A-1 MS	Matrix Spike	97
440-221711-A-1 MSD	Matrix Spike Duplicate	100
LCS 440-504895/3	Lab Control Sample	116
LCS 440-505023/3	Lab Control Sample	111

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
LCSD 440-504895/52	Lab Control Sample Dup	125
LCSD 440-505023/4	Lab Control Sample Dup	121
MB 440-504895/53	Method Blank	108
MB 440-505023/5	Method Blank	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		BFB1
Lab Sample ID	Client Sample ID	(65-140)
440-221398-B-3 MS	Matrix Spike	108
440-221398-B-3 MSD	Matrix Spike Duplicate	107
440-221644-7	EB-20181006	98
LCS 440-505024/3	Lab Control Sample	104
MB 440-505024/4	Method Blank	100

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(40-140)
440-221644-1	AOC4-SV17-5	90
440-221644-2	AOC4-SV17-15	64
440-221644-4	AOC4-SV16-5	66
440-221644-5	AOC4-SV16-5D	90
440-221644-6	AOC4-SV16-15	89
440-221792-G-2-D MS	Matrix Spike	90
440-221792-G-2-E MSD	Matrix Spike Duplicate	88
LCS 440-504282/2-A	Lab Control Sample	87
MB 440-504282/1-A	Method Blank	98

Surrogate Legend

OTCN = n-Octacosane

Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
440-221644-7	EB-20181006	84
LCS 440-504060/2-A	Lab Control Sample	90

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		OTCN1
Lab Sample ID	Client Sample ID	(45-120)
LCSD 440-504060/3-A	Lab Control Sample Dup	79
MB 440-504060/1-A	Method Blank	74

Surrogate Legend

OTCN = n-Octacosane

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Solid **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(45-120)
440-221644-1	AOC4-SV17-5	41 X
440-221644-2	AOC4-SV17-15	52
440-221644-4	AOC4-SV16-5	48
440-221644-5	AOC4-SV16-5D	55
440-221644-6	AOC4-SV16-15	56
440-221812-A-66-B MS	Matrix Spike	88
440-221812-A-66-E MSD	Matrix Spike Duplicate	89
LCS 440-504287/2-A	Lab Control Sample	95
MB 440-504287/1-A	Method Blank	105

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)
		DCB2
Lab Sample ID	Client Sample ID	(26-115)
440-221644-7	EB-20181006	93
LCS 440-503698/4-A	Lab Control Sample	77
LCSD 440-503698/5-A	Lab Control Sample Dup	77
MB 440-503698/1-A	Method Blank	93

Surrogate Legend

DCB = DCB Decachlorobiphenyl (Surr)

Method Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method	Method Description	Protocol	Laboratory
8260B	Volatile Organic Compounds (GC/MS)	SW846	TAL IRV
8015B	Gasoline Range Organics - (GC)	SW846	TAL IRV
8015B	Diesel Range Organics (DRO) (GC)	SW846	TAL IRV
8082	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL IRV
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL IRV
3546	Microwave Extraction	SW846	TAL IRV
5030B	Purge and Trap	SW846	TAL IRV
5035	Closed System Purge and Trap	SW846	TAL IRV

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV17-5

Lab Sample ID: 440-221644-1

Date Collected: 10/06/18 08:47

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.32 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 11:46	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.01 g	10 mL	505023	10/14/18 12:15	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 16:30	LMB	TAL IRV
Total/NA	Prep	3546			15.01 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/12/18 14:42	JM	TAL IRV

Client Sample ID: AOC4-SV17-15

Lab Sample ID: 440-221644-2

Date Collected: 10/06/18 09:06

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.66 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 12:13	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	505023	10/14/18 13:40	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 20:37	LMB	TAL IRV
Total/NA	Prep	3546			15.19 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 20:30	JM	TAL IRV

Client Sample ID: TB-20181006

Lab Sample ID: 440-221644-3

Date Collected: 10/06/18 10:15

Matrix: Water

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	504839	10/13/18 17:16	RM	TAL IRV

Client Sample ID: AOC4-SV16-5

Lab Sample ID: 440-221644-4

Date Collected: 10/06/18 10:24

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.35 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 12:40	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.04 g	10 mL	505023	10/14/18 14:08	YCL	TAL IRV
Total/NA	Prep	3546			15.02 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 18:54	LMB	TAL IRV
Total/NA	Prep	3546			15.05 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/12/18 14:55	JM	TAL IRV

Lab Chronicle

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Client Sample ID: AOC4-SV16-5D

Lab Sample ID: 440-221644-5

Date Collected: 10/06/18 10:30

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.41 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 13:34	AYL	TAL IRV
Total/NA	Analysis	8015B		1	4.98 g	10 mL	504895	10/13/18 22:22	IM	TAL IRV
Total/NA	Prep	3546			15.03 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 19:35	LMB	TAL IRV
Total/NA	Prep	3546			15.06 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 20:57	JM	TAL IRV

Client Sample ID: AOC4-SV16-15

Lab Sample ID: 440-221644-6

Date Collected: 10/06/18 10:45

Matrix: Solid

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.04 g	10 mL	503776	10/06/18 20:00	AYL	TAL IRV
Total/NA	Analysis	8260B		1	10 mL	10 mL	503694	10/09/18 14:01	AYL	TAL IRV
Total/NA	Analysis	8015B		1	5.02 g	10 mL	505023	10/14/18 14:36	YCL	TAL IRV
Total/NA	Prep	3546			15.00 g	1 mL	504282	10/11/18 06:50	L1A	TAL IRV
Total/NA	Analysis	8015B		1			504384	10/11/18 19:55	LMB	TAL IRV
Total/NA	Prep	3546			15.41 g	2 mL	504287	10/11/18 07:11	L1A	TAL IRV
Total/NA	Analysis	8082		1			504378	10/11/18 21:10	JM	TAL IRV

Client Sample ID: EB-20181006

Lab Sample ID: 440-221644-7

Date Collected: 10/06/18 11:00

Matrix: Water

Date Received: 10/06/18 14:05

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260B		1	10 mL	10 mL	504839	10/13/18 17:45	RM	TAL IRV
Total/NA	Analysis	8015B		1	10 mL	10 mL	505024	10/14/18 14:49	YCL	TAL IRV
Total/NA	Prep	3510C			240 mL	1 mL	504060	10/10/18 10:33	HCK	TAL IRV
Total/NA	Analysis	8015B		1			504496	10/11/18 21:05	LMB	TAL IRV
Total/NA	Prep	3510C			250 mL	2 mL	503698	10/09/18 06:24	L1H	TAL IRV
Total/NA	Analysis	8082		1			504021	10/10/18 13:19	JM	TAL IRV

Laboratory References:

TAL IRV = TestAmerica Irvine, 17461 Derian Ave, Suite 100, Irvine, CA 92614-5817, TEL (949)261-1022

Method: 8260B - Volatile Organic Compounds (GC/MS)

Lab Sample ID: MB 440-503694/5
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Bromobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Bromochloromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Bromodichloromethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Bromoform	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
2-Butanone (MEK)	ND		10	5.0	ug/Kg			10/09/18 09:04	1
Carbon tetrachloride	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Chlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Chloroethane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
Chloroform	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Chloromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
2-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
4-Chlorotoluene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
cis-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
cis-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dibromochloromethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dibromo-3-Chloropropane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
1,2-Dibromoethane (EDB)	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dibromomethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,4-Dichlorobenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Dichlorodifluoromethane	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloroethene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
2,2-Dichloropropane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Ethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Hexachlorobutadiene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Isopropylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Methylene Chloride	ND		20	5.0	ug/Kg			10/09/18 09:04	1
Methyl-t-Butyl Ether (MTBE)	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
m,p-Xylene	ND		4.0	2.0	ug/Kg			10/09/18 09:04	1
Naphthalene	ND		5.0	2.0	ug/Kg			10/09/18 09:04	1
n-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
N-Propylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
o-Xylene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
p-Isopropyltoluene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
sec-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
Styrene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
tert-Butylbenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,1,2-Tetrachloroethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,2,2-Tetrachloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Tetrachloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Toluene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-503694/5
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
trans-1,3-Dichloropropene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,3-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,4-Trichlorobenzene	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,1-Trichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,1,2-Trichloroethane	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Trichloroethene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Trichlorofluoromethane	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1
1,2,3-Trichloropropane	ND		10	1.0	ug/Kg			10/09/18 09:04	1
1,2,4-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
1,3,5-Trimethylbenzene	ND		2.0	1.0	ug/Kg			10/09/18 09:04	1
Vinyl chloride	ND		5.0	1.0	ug/Kg			10/09/18 09:04	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*93*		*79 - 120*		*10/09/18 09:04*	*1*
Dibromofluoromethane (Surr)	*98*		*60 - 120*		*10/09/18 09:04*	*1*
Toluene-d8 (Surr)	*94*		*79 - 123*		*10/09/18 09:04*	*1*

Lab Sample ID: LCS 440-503694/6
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	50.0	50.3		ug/Kg		101	65 - 120
Bromobenzene	50.0	52.9		ug/Kg		106	75 - 120
Bromochloromethane	50.0	54.0		ug/Kg		108	70 - 135
Bromodichloromethane	50.0	51.6		ug/Kg		103	70 - 135
Bromoform	50.0	49.7		ug/Kg		99	55 - 135
Bromomethane	50.0	44.3		ug/Kg		89	60 - 145
2-Butanone (MEK)	50.0	47.6		ug/Kg		95	40 - 145
Carbon tetrachloride	50.0	50.4		ug/Kg		101	65 - 140
Chlorobenzene	50.0	51.0		ug/Kg		102	75 - 120
Chloroethane	50.0	40.7		ug/Kg		81	60 - 140
Chloroform	50.0	47.4		ug/Kg		95	70 - 130
Chloromethane	50.0	39.7		ug/Kg		79	45 - 145
2-Chlorotoluene	50.0	51.8		ug/Kg		104	70 - 125
4-Chlorotoluene	50.0	52.1		ug/Kg		104	75 - 125
cis-1,2-Dichloroethene	50.0	49.3		ug/Kg		99	70 - 125
cis-1,3-Dichloropropene	50.0	55.2		ug/Kg		110	75 - 125
Dibromochloromethane	50.0	54.2		ug/Kg		108	65 - 140
1,2-Dibromo-3-Chloropropane	50.0	52.0		ug/Kg		104	50 - 135
1,2-Dibromoethane (EDB)	50.0	50.9		ug/Kg		102	70 - 130
Dibromomethane	50.0	52.1		ug/Kg		104	70 - 130
1,2-Dichlorobenzene	50.0	55.7		ug/Kg		111	75 - 120
1,3-Dichlorobenzene	50.0	52.3		ug/Kg		105	75 - 125
1,4-Dichlorobenzene	50.0	55.2		ug/Kg		110	75 - 120
Dichlorodifluoromethane	50.0	29.3		ug/Kg		59	35 - 160
1,1-Dichloroethane	50.0	49.6		ug/Kg		99	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-503694/6
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	50.0	52.2		ug/Kg		104	60 - 140
1,1-Dichloroethene	50.0	43.7		ug/Kg		87	70 - 125
1,2-Dichloropropane	50.0	52.3		ug/Kg		105	70 - 130
1,3-Dichloropropane	50.0	53.4		ug/Kg		107	70 - 125
2,2-Dichloropropane	50.0	49.1		ug/Kg		98	60 - 145
1,1-Dichloropropene	50.0	49.9		ug/Kg		100	70 - 130
Ethylbenzene	50.0	46.5		ug/Kg		93	70 - 125
Hexachlorobutadiene	50.0	52.7		ug/Kg		105	60 - 135
Isopropylbenzene	50.0	46.7		ug/Kg		93	75 - 130
Methylene Chloride	50.0	49.0		ug/Kg		98	55 - 135
Methyl-t-Butyl Ether (MTBE)	50.0	48.6		ug/Kg		97	60 - 140
m,p-Xylene	50.0	47.7		ug/Kg		95	70 - 125
Naphthalene	50.0	54.3		ug/Kg		109	55 - 135
n-Butylbenzene	50.0	48.1		ug/Kg		96	70 - 130
N-Propylbenzene	50.0	48.4		ug/Kg		97	70 - 130
o-Xylene	50.0	47.6		ug/Kg		95	70 - 125
p-Isopropyltoluene	50.0	50.8		ug/Kg		102	75 - 125
sec-Butylbenzene	50.0	49.3		ug/Kg		99	70 - 125
Styrene	50.0	48.3		ug/Kg		97	75 - 130
tert-Butylbenzene	50.0	49.6		ug/Kg		99	70 - 125
1,1,1,2-Tetrachloroethane	50.0	47.7		ug/Kg		95	70 - 130
1,1,2,2-Tetrachloroethane	50.0	57.2		ug/Kg		114	55 - 140
Tetrachloroethene	50.0	45.0		ug/Kg		90	70 - 125
Toluene	50.0	47.7		ug/Kg		95	70 - 125
trans-1,2-Dichloroethene	50.0	44.9		ug/Kg		90	70 - 125
trans-1,3-Dichloropropene	50.0	50.8		ug/Kg		102	70 - 135
1,2,3-Trichlorobenzene	50.0	57.0		ug/Kg		114	60 - 130
1,2,4-Trichlorobenzene	50.0	55.8		ug/Kg		112	70 - 135
1,1,1-Trichloroethane	50.0	46.2		ug/Kg		92	65 - 135
1,1,2-Trichloroethane	50.0	55.7		ug/Kg		111	65 - 135
Trichloroethene	50.0	53.9		ug/Kg		108	70 - 125
Trichlorofluoromethane	50.0	40.1		ug/Kg		80	60 - 145
1,2,3-Trichloropropane	50.0	55.0		ug/Kg		110	60 - 135
1,2,4-Trimethylbenzene	50.0	49.4		ug/Kg		99	70 - 125
1,3,5-Trimethylbenzene	50.0	48.4		ug/Kg		97	70 - 125
Vinyl chloride	50.0	43.1		ug/Kg		86	55 - 135

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Dibromofluoromethane (Surr)	*99*		*60 - 120*
Toluene-d8 (Surr)	*90*		*79 - 123*

Lab Sample ID: 440-221605-B-9 MS
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		49.4	55.0		ug/Kg		111	65 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221605-B-9 MS
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	ND		49.4	58.0		ug/Kg		117	65 - 140
Bromochloromethane	ND		49.4	58.4		ug/Kg		118	65 - 145
Bromodichloromethane	ND		49.4	58.0		ug/Kg		117	65 - 145
Bromoform	ND		49.4	59.2		ug/Kg		120	50 - 145
Bromomethane	ND		49.4	52.5		ug/Kg		106	60 - 155
2-Butanone (MEK)	ND		49.4	63.6		ug/Kg		129	25 - 170
Carbon tetrachloride	ND		49.4	53.5		ug/Kg		108	60 - 145
Chlorobenzene	ND		49.4	57.9		ug/Kg		117	70 - 130
Chloroethane	ND		49.4	45.7		ug/Kg		93	60 - 150
Chloroform	ND		49.4	53.5		ug/Kg		108	65 - 135
Chloromethane	ND	F2	49.4	49.3		ug/Kg		100	40 - 145
2-Chlorotoluene	ND		49.4	55.3		ug/Kg		112	60 - 135
4-Chlorotoluene	ND		49.4	56.2		ug/Kg		114	65 - 135
cis-1,2-Dichloroethene	ND		49.4	54.0		ug/Kg		109	65 - 135
cis-1,3-Dichloropropene	ND		49.4	62.2		ug/Kg		126	70 - 135
Dibromochloromethane	ND		49.4	68.1		ug/Kg		138	60 - 145
1,2-Dibromo-3-Chloropropane	ND		49.4	60.9		ug/Kg		123	40 - 150
1,2-Dibromoethane (EDB)	ND		49.4	62.1		ug/Kg		126	65 - 140
Dibromomethane	ND		49.4	60.6		ug/Kg		123	65 - 140
1,2-Dichlorobenzene	ND		49.4	54.9		ug/Kg		111	70 - 130
1,3-Dichlorobenzene	ND		49.4	54.8		ug/Kg		111	70 - 130
1,4-Dichlorobenzene	ND		49.4	57.5		ug/Kg		116	70 - 130
Dichlorodifluoromethane	ND	F2	49.4	39.1		ug/Kg		79	30 - 160
1,1-Dichloroethane	ND		49.4	55.5		ug/Kg		112	65 - 135
1,2-Dichloroethane	ND		49.4	58.7		ug/Kg		119	60 - 150
1,1-Dichloroethene	ND		49.4	54.3		ug/Kg		110	65 - 135
1,2-Dichloropropane	ND		49.4	56.6		ug/Kg		115	65 - 130
1,3-Dichloropropane	ND		49.4	65.1		ug/Kg		132	65 - 140
2,2-Dichloropropane	ND		49.4	56.2		ug/Kg		114	65 - 150
1,1-Dichloropropene	ND		49.4	51.7		ug/Kg		105	65 - 135
Ethylbenzene	ND		49.4	52.8		ug/Kg		107	70 - 135
Hexachlorobutadiene	ND		49.4	37.9		ug/Kg		77	50 - 145
Isopropylbenzene	ND		49.4	52.2		ug/Kg		106	70 - 145
Methylene Chloride	ND		49.4	60.4		ug/Kg		122	55 - 145
Methyl-t-Butyl Ether (MTBE)	ND		49.4	55.3		ug/Kg		112	55 - 155
m,p-Xylene	ND		49.4	52.9		ug/Kg		107	70 - 130
Naphthalene	ND		49.4	55.4		ug/Kg		112	40 - 150
n-Butylbenzene	ND		49.4	46.6		ug/Kg		94	55 - 145
N-Propylbenzene	ND		49.4	52.1		ug/Kg		105	65 - 140
o-Xylene	ND		49.4	55.6		ug/Kg		113	65 - 130
p-Isopropyltoluene	ND		49.4	52.6		ug/Kg		107	60 - 140
sec-Butylbenzene	ND		49.4	51.2		ug/Kg		104	60 - 135
Styrene	ND		49.4	51.6		ug/Kg		104	70 - 140
tert-Butylbenzene	ND		49.4	53.8		ug/Kg		109	60 - 140
1,1,1,2-Tetrachloroethane	ND		49.4	56.2		ug/Kg		114	65 - 145
1,1,2,2-Tetrachloroethane	ND		49.4	66.7		ug/Kg		135	40 - 160
Tetrachloroethene	ND		49.4	54.0		ug/Kg		109	65 - 135
Toluene	ND		49.4	55.8		ug/Kg		113	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221605-B-9 MS
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	ND		49.4	53.2		ug/Kg		108	70 - 135
trans-1,3-Dichloropropene	ND		49.4	60.4		ug/Kg		122	60 - 145
1,2,3-Trichlorobenzene	ND		49.4	48.4		ug/Kg		98	45 - 145
1,2,4-Trichlorobenzene	ND		49.4	49.6		ug/Kg		100	50 - 140
1,1,1-Trichloroethane	ND		49.4	52.6		ug/Kg		106	65 - 145
1,1,2-Trichloroethane	ND	F1	49.4	71.7	F1	ug/Kg		145	65 - 140
Trichloroethene	ND		49.4	58.1		ug/Kg		118	65 - 140
Trichlorofluoromethane	ND		49.4	47.8		ug/Kg		97	55 - 155
1,2,3-Trichloropropane	ND		49.4	69.5		ug/Kg		141	50 - 150
1,2,4-Trimethylbenzene	ND		49.4	54.0		ug/Kg		109	65 - 140
1,3,5-Trimethylbenzene	ND		49.4	53.4		ug/Kg		108	65 - 135
Vinyl chloride	ND		49.4	52.1		ug/Kg		105	55 - 140

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*79 - 120*
Dibromofluoromethane (Surr)	*104*		*60 - 120*
Toluene-d8 (Surr)	*95*		*79 - 123*

Lab Sample ID: 440-221605-B-9 MSD
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		49.4	51.1		ug/Kg		103	65 - 130	7	20
Bromobenzene	ND		49.4	57.4		ug/Kg		116	65 - 140	1	25
Bromochloromethane	ND		49.4	54.7		ug/Kg		111	65 - 145	6	25
Bromodichloromethane	ND		49.4	50.9		ug/Kg		103	65 - 145	13	20
Bromoform	ND		49.4	58.1		ug/Kg		118	50 - 145	2	30
Bromomethane	ND		49.4	42.7		ug/Kg		86	60 - 155	20	25
2-Butanone (MEK)	ND		49.4	54.0		ug/Kg		109	25 - 170	16	40
Carbon tetrachloride	ND		49.4	49.5		ug/Kg		100	60 - 145	8	25
Chlorobenzene	ND		49.4	52.5		ug/Kg		106	70 - 130	10	25
Chloroethane	ND		49.4	39.7		ug/Kg		80	60 - 150	14	25
Chloroform	ND		49.4	47.9		ug/Kg		97	65 - 135	11	20
Chloromethane	ND	F2	49.4	33.2	F2	ug/Kg		67	40 - 145	39	25
2-Chlorotoluene	ND		49.4	52.4		ug/Kg		106	60 - 135	5	25
4-Chlorotoluene	ND		49.4	50.5		ug/Kg		102	65 - 135	11	25
cis-1,2-Dichloroethene	ND		49.4	50.3		ug/Kg		102	65 - 135	7	25
cis-1,3-Dichloropropene	ND		49.4	57.7		ug/Kg		117	70 - 135	7	25
Dibromochloromethane	ND		49.4	62.4		ug/Kg		126	60 - 145	9	25
1,2-Dibromo-3-Chloropropane	ND		49.4	60.5		ug/Kg		122	40 - 150	1	30
1,2-Dibromoethane (EDB)	ND		49.4	55.8		ug/Kg		113	65 - 140	11	25
Dibromomethane	ND		49.4	55.6		ug/Kg		113	65 - 140	9	25
1,2-Dichlorobenzene	ND		49.4	49.7		ug/Kg		101	70 - 130	10	25
1,3-Dichlorobenzene	ND		49.4	49.0		ug/Kg		99	70 - 130	11	25
1,4-Dichlorobenzene	ND		49.4	52.6		ug/Kg		106	70 - 130	9	25
Dichlorodifluoromethane	ND	F2	49.4	25.2	F2	ug/Kg		51	30 - 160	43	35
1,1-Dichloroethane	ND		49.4	50.8		ug/Kg		103	65 - 135	9	25

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221605-B-9 MSD
Matrix: Solid
Analysis Batch: 503694

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		49.4	52.6		ug/Kg		107	60 - 150	11	25
1,1-Dichloroethene	ND		49.4	48.3		ug/Kg		98	65 - 135	12	25
1,2-Dichloropropane	ND		49.4	53.5		ug/Kg		108	65 - 130	6	20
1,3-Dichloropropane	ND		49.4	59.2		ug/Kg		120	65 - 140	9	25
2,2-Dichloropropane	ND		49.4	51.0		ug/Kg		103	65 - 150	10	25
1,1-Dichloropropene	ND		49.4	49.8		ug/Kg		101	65 - 135	4	20
Ethylbenzene	ND		49.4	47.3		ug/Kg		96	70 - 135	11	25
Hexachlorobutadiene	ND		49.4	31.3		ug/Kg		63	50 - 145	19	35
Isopropylbenzene	ND		49.4	46.5		ug/Kg		94	70 - 145	12	25
Methylene Chloride	ND		49.4	57.3		ug/Kg		116	55 - 145	5	25
Methyl-t-Butyl Ether (MTBE)	ND		49.4	49.9		ug/Kg		101	55 - 155	10	35
m,p-Xylene	ND		49.4	46.5		ug/Kg		94	70 - 130	13	25
Naphthalene	ND		49.4	47.7		ug/Kg		97	40 - 150	15	40
n-Butylbenzene	ND		49.4	40.8		ug/Kg		83	55 - 145	13	30
N-Propylbenzene	ND		49.4	48.4		ug/Kg		98	65 - 140	7	25
o-Xylene	ND		49.4	50.3		ug/Kg		102	65 - 130	10	25
p-Isopropyltoluene	ND		49.4	48.1		ug/Kg		97	60 - 140	9	25
sec-Butylbenzene	ND		49.4	45.5		ug/Kg		92	60 - 135	12	25
Styrene	ND		49.4	47.4		ug/Kg		96	70 - 140	9	25
tert-Butylbenzene	ND		49.4	49.8		ug/Kg		101	60 - 140	8	25
1,1,1,2-Tetrachloroethane	ND		49.4	47.6		ug/Kg		96	65 - 145	17	20
1,1,2,2-Tetrachloroethane	ND		49.4	68.5		ug/Kg		139	40 - 160	3	30
Tetrachloroethene	ND		49.4	51.0		ug/Kg		103	65 - 135	6	25
Toluene	ND		49.4	50.1		ug/Kg		101	70 - 130	11	20
trans-1,2-Dichloroethene	ND		49.4	47.6		ug/Kg		96	70 - 135	11	25
trans-1,3-Dichloropropene	ND		49.4	52.0		ug/Kg		105	60 - 145	15	25
1,2,3-Trichlorobenzene	ND		49.4	41.0		ug/Kg		83	45 - 145	17	30
1,2,4-Trichlorobenzene	ND		49.4	42.7		ug/Kg		86	50 - 140	15	30
1,1,1-Trichloroethane	ND		49.4	46.8		ug/Kg		95	65 - 145	12	20
1,1,2-Trichloroethane	ND	F1	49.4	58.3		ug/Kg		118	65 - 140	21	30
Trichloroethene	ND		49.4	55.7		ug/Kg		113	65 - 140	4	25
Trichlorofluoromethane	ND		49.4	40.6		ug/Kg		82	55 - 155	16	25
1,2,3-Trichloropropane	ND		49.4	65.5		ug/Kg		132	50 - 150	6	30
1,2,4-Trimethylbenzene	ND		49.4	49.8		ug/Kg		101	65 - 140	8	25
1,3,5-Trimethylbenzene	ND		49.4	49.1		ug/Kg		99	65 - 135	8	25
Vinyl chloride	ND		49.4	43.0		ug/Kg		87	55 - 140	19	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*79 - 120*
Dibromofluoromethane (Surr)	*102*		*60 - 120*
Toluene-d8 (Surr)	*93*		*79 - 123*

Lab Sample ID: MB 440-504839/4
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-504839/4
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromochloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromodichloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Bromoform	ND		1.0	0.40	ug/L			10/13/18 09:02	1
Bromomethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2-Butanone (MEK)	ND		5.0	2.5	ug/L			10/13/18 09:02	1
Carbon tetrachloride	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chloroethane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
Chloroform	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Chloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
4-Chlorotoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
cis-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
cis-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dibromochloromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.50	ug/L			10/13/18 09:02	1
1,2-Dibromoethane (EDB)	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dibromomethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,4-Dichlorobenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Dichlorodifluoromethane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3-Dichloropropane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
2,2-Dichloropropane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Ethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Hexachlorobutadiene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Isopropylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Methylene Chloride	ND		2.0	0.88	ug/L			10/13/18 09:02	1
Methyl-t-Butyl Ether (MTBE)	ND		0.50	0.25	ug/L			10/13/18 09:02	1
m,p-Xylene	ND		1.0	0.50	ug/L			10/13/18 09:02	1
Naphthalene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
n-Butylbenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
N-Propylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
o-Xylene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
p-Isopropyltoluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
sec-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Styrene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
tert-Butylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,1,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,2,2-Tetrachloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Tetrachloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Toluene	ND		0.50	0.25	ug/L			10/13/18 09:02	1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 440-504839/4
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,2-Dichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
trans-1,3-Dichloropropene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2,3-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,1,1-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,1,2-Trichloroethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Trichloroethene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Trichlorofluoromethane	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,2,3-Trichloropropane	ND		1.0	0.40	ug/L			10/13/18 09:02	1
1,2,4-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
1,3,5-Trimethylbenzene	ND		0.50	0.25	ug/L			10/13/18 09:02	1
Vinyl chloride	ND		0.50	0.25	ug/L			10/13/18 09:02	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*80 - 120*		*10/13/18 09:02*	*1*
Dibromofluoromethane (Surr)	*98*		*76 - 132*		*10/13/18 09:02*	*1*
Toluene-d8 (Surr)	*104*		*80 - 128*		*10/13/18 09:02*	*1*

Lab Sample ID: LCS 440-504839/5
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	25.0	25.5		ug/L		102	68 - 130
Bromobenzene	25.0	23.7		ug/L		95	70 - 130
Bromochloromethane	25.0	25.8		ug/L		103	70 - 130
Bromodichloromethane	25.0	23.8		ug/L		95	70 - 132
Bromoform	25.0	21.1		ug/L		84	60 - 148
Bromomethane	25.0	21.6		ug/L		86	64 - 139
2-Butanone (MEK)	25.0	26.1		ug/L		105	44 - 150
Carbon tetrachloride	25.0	23.5		ug/L		94	60 - 150
Chlorobenzene	25.0	25.7		ug/L		103	70 - 130
Chloroethane	25.0	21.8		ug/L		87	64 - 135
Chloroform	25.0	23.7		ug/L		95	70 - 130
Chloromethane	25.0	21.2		ug/L		85	47 - 140
2-Chlorotoluene	25.0	26.2		ug/L		105	70 - 130
4-Chlorotoluene	25.0	26.6		ug/L		106	70 - 130
cis-1,2-Dichloroethene	25.0	26.4		ug/L		106	70 - 133
cis-1,3-Dichloropropene	25.0	27.8		ug/L		111	70 - 133
Dibromochloromethane	25.0	25.4		ug/L		102	69 - 145
1,2-Dibromo-3-Chloropropane	25.0	23.6		ug/L		94	52 - 140
1,2-Dibromoethane (EDB)	25.0	24.4		ug/L		97	70 - 130
Dibromomethane	25.0	23.7		ug/L		95	70 - 130
1,2-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,3-Dichlorobenzene	25.0	24.3		ug/L		97	70 - 130
1,4-Dichlorobenzene	25.0	23.9		ug/L		96	70 - 130
Dichlorodifluoromethane	25.0	17.8		ug/L		71	29 - 150
1,1-Dichloroethane	25.0	25.5		ug/L		102	64 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 440-504839/5
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichloroethane	25.0	23.5		ug/L		94	57 - 138
1,1-Dichloroethene	25.0	26.4		ug/L		106	70 - 130
1,2-Dichloropropane	25.0	26.5		ug/L		106	67 - 130
1,3-Dichloropropane	25.0	25.9		ug/L		103	70 - 130
2,2-Dichloropropane	25.0	25.3		ug/L		101	68 - 141
1,1-Dichloropropene	25.0	26.7		ug/L		107	70 - 130
Ethylbenzene	25.0	26.1		ug/L		104	70 - 130
Hexachlorobutadiene	25.0	19.9		ug/L		79	10 - 150
Isopropylbenzene	25.0	27.2		ug/L		109	70 - 136
Methylene Chloride	25.0	20.0		ug/L		80	52 - 130
Methyl-t-Butyl Ether (MTBE)	25.0	23.7		ug/L		95	63 - 131
m,p-Xylene	25.0	26.5		ug/L		106	70 - 130
Naphthalene	25.0	26.2		ug/L		105	60 - 140
n-Butylbenzene	25.0	28.3		ug/L		113	65 - 150
N-Propylbenzene	25.0	28.1		ug/L		112	67 - 139
o-Xylene	25.0	27.6		ug/L		110	70 - 130
p-Isopropyltoluene	25.0	27.1		ug/L		108	70 - 132
sec-Butylbenzene	25.0	27.6		ug/L		110	70 - 138
Styrene	25.0	23.8		ug/L		95	70 - 134
tert-Butylbenzene	25.0	26.8		ug/L		107	70 - 130
1,1,1,2-Tetrachloroethane	25.0	23.5		ug/L		94	60 - 141
1,1,2,2-Tetrachloroethane	25.0	24.5		ug/L		98	63 - 130
Tetrachloroethene	25.0	23.0		ug/L		92	70 - 130
Toluene	25.0	27.1		ug/L		109	70 - 130
trans-1,2-Dichloroethene	25.0	27.4		ug/L		110	70 - 130
trans-1,3-Dichloropropene	25.0	26.2		ug/L		105	70 - 132
1,2,3-Trichlorobenzene	25.0	22.3		ug/L		89	60 - 140
1,2,4-Trichlorobenzene	25.0	22.8		ug/L		91	60 - 140
1,1,1-Trichloroethane	25.0	22.6		ug/L		90	70 - 130
1,1,2-Trichloroethane	25.0	25.4		ug/L		101	70 - 130
Trichloroethene	25.0	25.8		ug/L		103	70 - 130
Trichlorofluoromethane	25.0	20.0		ug/L		80	60 - 150
1,2,3-Trichloropropane	25.0	22.5		ug/L		90	63 - 130
1,2,4-Trimethylbenzene	25.0	24.8		ug/L		99	70 - 135
1,3,5-Trimethylbenzene	25.0	26.8		ug/L		107	70 - 136
Vinyl chloride	25.0	24.0		ug/L		96	59 - 133

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*96*		*80 - 120*
Dibromofluoromethane (Surr)	*96*		*76 - 132*
Toluene-d8 (Surr)	*101*		*80 - 128*

Lab Sample ID: 440-221818-A-18 MS
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Benzene	ND		250	264		ug/L		106	66 - 130

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221818-A-18 MS
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Bromobenzene	ND		250	244		ug/L		98	70 - 130
Bromochloromethane	ND		250	270		ug/L		108	70 - 130
Bromodichloromethane	ND		250	251		ug/L		101	70 - 138
Bromoform	ND		250	219		ug/L		88	59 - 150
Bromomethane	ND		250	217		ug/L		87	62 - 131
2-Butanone (MEK)	ND		250	236		ug/L		94	48 - 140
Carbon tetrachloride	ND		250	242		ug/L		97	60 - 150
Chlorobenzene	ND		250	262		ug/L		105	70 - 130
Chloroethane	ND		250	222		ug/L		89	68 - 130
Chloroform	ND		250	245		ug/L		98	70 - 130
Chloromethane	ND		250	213		ug/L		85	39 - 144
2-Chlorotoluene	ND		250	270		ug/L		108	70 - 130
4-Chlorotoluene	ND		250	274		ug/L		109	70 - 130
cis-1,2-Dichloroethene	190		250	464		ug/L		111	70 - 130
cis-1,3-Dichloropropene	ND		250	292		ug/L		117	70 - 133
Dibromochloromethane	ND		250	258		ug/L		103	70 - 148
1,2-Dibromo-3-Chloropropane	ND		250	223		ug/L		89	48 - 140
1,2-Dibromoethane (EDB)	ND		250	248		ug/L		99	70 - 131
Dibromomethane	ND		250	244		ug/L		98	70 - 130
1,2-Dichlorobenzene	ND		250	250		ug/L		100	70 - 130
1,3-Dichlorobenzene	ND		250	256		ug/L		102	70 - 130
1,4-Dichlorobenzene	ND		250	245		ug/L		98	70 - 130
Dichlorodifluoromethane	ND		250	177		ug/L		71	25 - 142
1,1-Dichloroethane	34		250	289		ug/L		102	65 - 130
1,2-Dichloroethane	ND		250	242		ug/L		97	56 - 146
1,1-Dichloroethene	44		250	305		ug/L		104	70 - 130
1,2-Dichloropropane	ND		250	275		ug/L		110	69 - 130
1,3-Dichloropropane	ND		250	259		ug/L		104	70 - 130
2,2-Dichloropropane	ND		250	254		ug/L		102	69 - 138
1,1-Dichloropropene	ND		250	276		ug/L		110	64 - 130
Ethylbenzene	ND		250	269		ug/L		108	70 - 130
Hexachlorobutadiene	ND		250	205		ug/L		82	10 - 150
Isopropylbenzene	ND		250	281		ug/L		112	70 - 132
Methylene Chloride	ND		250	203		ug/L		81	52 - 130
Methyl-t-Butyl Ether (MTBE)	ND		250	242		ug/L		97	70 - 130
m,p-Xylene	ND		250	276		ug/L		110	70 - 133
Naphthalene	ND		250	261		ug/L		105	60 - 140
n-Butylbenzene	ND		250	298		ug/L		119	61 - 149
N-Propylbenzene	ND		250	289		ug/L		115	66 - 135
o-Xylene	ND		250	286		ug/L		114	70 - 133
p-Isopropyltoluene	ND		250	280		ug/L		112	70 - 130
sec-Butylbenzene	ND		250	284		ug/L		114	67 - 134
Styrene	ND		250	251		ug/L		100	29 - 150
tert-Butylbenzene	ND		250	277		ug/L		111	70 - 130
1,1,1,2-Tetrachloroethane	ND		250	245		ug/L		98	60 - 149
1,1,2,2-Tetrachloroethane	ND		250	246		ug/L		98	63 - 130
Tetrachloroethene	8.8		250	242		ug/L		93	70 - 137
Toluene	ND		250	279		ug/L		111	70 - 130

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221818-A-18 MS
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
trans-1,2-Dichloroethene	3.4	J	250	292		ug/L		115	70 - 130
trans-1,3-Dichloropropene	ND		250	267		ug/L		107	70 - 138
1,2,3-Trichlorobenzene	ND		250	233		ug/L		93	60 - 140
1,2,4-Trichlorobenzene	ND		250	238		ug/L		95	60 - 140
1,1,1-Trichloroethane	ND		250	230		ug/L		92	70 - 130
1,1,2-Trichloroethane	2.8	J	250	265		ug/L		105	70 - 130
Trichloroethene	1000		250	1250	4	ug/L		88	70 - 130
Trichlorofluoromethane	ND		250	204		ug/L		82	60 - 150
1,2,3-Trichloropropane	ND		250	219		ug/L		88	60 - 130
1,2,4-Trimethylbenzene	ND		250	255		ug/L		102	70 - 130
1,3,5-Trimethylbenzene	ND		250	272		ug/L		109	70 - 130
Vinyl chloride	18		250	260		ug/L		97	50 - 137

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*94*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Lab Sample ID: 440-221818-A-18 MSD
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Benzene	ND		250	237		ug/L		95	66 - 130	11	20
Bromobenzene	ND		250	223		ug/L		89	70 - 130	9	20
Bromochloromethane	ND		250	239		ug/L		96	70 - 130	12	25
Bromodichloromethane	ND		250	228		ug/L		91	70 - 138	10	20
Bromoform	ND		250	193		ug/L		77	59 - 150	13	25
Bromomethane	ND		250	198		ug/L		79	62 - 131	9	25
2-Butanone (MEK)	ND		250	200		ug/L		80	48 - 140	16	40
Carbon tetrachloride	ND		250	211		ug/L		84	60 - 150	14	25
Chlorobenzene	ND		250	235		ug/L		94	70 - 130	11	20
Chloroethane	ND		250	202		ug/L		81	68 - 130	10	25
Chloroform	ND		250	222		ug/L		89	70 - 130	10	20
Chloromethane	ND		250	198		ug/L		79	39 - 144	7	25
2-Chlorotoluene	ND		250	246		ug/L		98	70 - 130	9	20
4-Chlorotoluene	ND		250	249		ug/L		99	70 - 130	10	20
cis-1,2-Dichloroethene	190		250	424		ug/L		95	70 - 130	9	20
cis-1,3-Dichloropropene	ND		250	259		ug/L		104	70 - 133	12	20
Dibromochloromethane	ND		250	232		ug/L		93	70 - 148	11	25
1,2-Dibromo-3-Chloropropane	ND		250	206		ug/L		82	48 - 140	8	30
1,2-Dibromoethane (EDB)	ND		250	222		ug/L		89	70 - 131	11	25
Dibromomethane	ND		250	218		ug/L		87	70 - 130	11	25
1,2-Dichlorobenzene	ND		250	229		ug/L		92	70 - 130	9	20
1,3-Dichlorobenzene	ND		250	232		ug/L		93	70 - 130	10	20
1,4-Dichlorobenzene	ND		250	222		ug/L		89	70 - 130	10	20
Dichlorodifluoromethane	ND		250	165		ug/L		66	25 - 142	7	30
1,1-Dichloroethane	34		250	261		ug/L		91	65 - 130	10	20

Method: 8260B - Volatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: 440-221818-A-18 MSD
Matrix: Water
Analysis Batch: 504839

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,2-Dichloroethane	ND		250	218		ug/L		87	56 - 146	10	20
1,1-Dichloroethene	44		250	275		ug/L		92	70 - 130	10	20
1,2-Dichloropropane	ND		250	244		ug/L		98	69 - 130	12	20
1,3-Dichloropropane	ND		250	237		ug/L		95	70 - 130	9	25
2,2-Dichloropropane	ND		250	225		ug/L		90	69 - 138	12	25
1,1-Dichloropropene	ND		250	244		ug/L		98	64 - 130	12	20
Ethylbenzene	ND		250	238		ug/L		95	70 - 130	12	20
Hexachlorobutadiene	ND		250	185		ug/L		74	10 - 150	10	20
Isopropylbenzene	ND		250	247		ug/L		99	70 - 132	13	20
Methylene Chloride	ND		250	183		ug/L		73	52 - 130	11	20
Methyl-t-Butyl Ether (MTBE)	ND		250	218		ug/L		87	70 - 130	10	25
m,p-Xylene	ND		250	240		ug/L		96	70 - 133	14	25
Naphthalene	ND		250	241		ug/L		97	60 - 140	8	30
n-Butylbenzene	ND		250	267		ug/L		107	61 - 149	11	20
N-Propylbenzene	ND		250	261		ug/L		104	66 - 135	10	20
o-Xylene	ND		250	255		ug/L		102	70 - 133	11	20
p-Isopropyltoluene	ND		250	254		ug/L		102	70 - 130	10	20
sec-Butylbenzene	ND		250	255		ug/L		102	67 - 134	11	20
Styrene	ND		250	223		ug/L		89	29 - 150	12	35
tert-Butylbenzene	ND		250	251		ug/L		100	70 - 130	10	20
1,1,1,2-Tetrachloroethane	ND		250	219		ug/L		88	60 - 149	11	20
1,1,2,2-Tetrachloroethane	ND		250	226		ug/L		90	63 - 130	8	30
Tetrachloroethene	8.8		250	217		ug/L		83	70 - 137	11	20
Toluene	ND		250	249		ug/L		100	70 - 130	11	20
trans-1,2-Dichloroethene	3.4	J	250	259		ug/L		102	70 - 130	12	20
trans-1,3-Dichloropropene	ND		250	239		ug/L		96	70 - 138	11	25
1,2,3-Trichlorobenzene	ND		250	217		ug/L		87	60 - 140	7	20
1,2,4-Trichlorobenzene	ND		250	216		ug/L		87	60 - 140	10	20
1,1,1-Trichloroethane	ND		250	204		ug/L		81	70 - 130	12	20
1,1,2-Trichloroethane	2.8	J	250	238		ug/L		94	70 - 130	11	25
Trichloroethene	1000		250	1120	4	ug/L		39	70 - 130	10	20
Trichlorofluoromethane	ND		250	179		ug/L		72	60 - 150	13	25
1,2,3-Trichloropropane	ND		250	203		ug/L		81	60 - 130	7	30
1,2,4-Trimethylbenzene	ND		250	233		ug/L		93	70 - 130	9	25
1,3,5-Trimethylbenzene	ND		250	249		ug/L		100	70 - 130	9	20
Vinyl chloride	18		250	237		ug/L		87	50 - 137	9	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*80 - 120*
Dibromofluoromethane (Surr)	*97*		*76 - 132*
Toluene-d8 (Surr)	*100*		*80 - 128*

Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 440-504895/53
Matrix: Solid
Analysis Batch: 504895

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/13/18 12:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*108*		*65 - 140*		*10/13/18 12:30*	*1*

Lab Sample ID: LCS 440-504895/3
Matrix: Solid
Analysis Batch: 504895

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1350		ug/Kg		84	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*116*		*65 - 140*

Lab Sample ID: LCSD 440-504895/52
Matrix: Solid
Analysis Batch: 504895

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1350		ug/Kg		84	70 - 135	0	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*125*		*65 - 140*

Lab Sample ID: 440-221711-A-1 MS
Matrix: Solid
Analysis Batch: 504895

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1600	1000		ug/Kg		63	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*97*		*65 - 140*

Lab Sample ID: 440-221711-A-1 MSD
Matrix: Solid
Analysis Batch: 504895

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1580	1010		ug/Kg		64	60 - 140	1	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 440-505023/5
Matrix: Solid
Analysis Batch: 505023

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		400	150	ug/Kg			10/14/18 10:15	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*65 - 140*		*10/14/18 10:15*	*1*

Lab Sample ID: LCS 440-505023/3
Matrix: Solid
Analysis Batch: 505023

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			1600	1240		ug/Kg		78	70 - 135		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*111*		*65 - 140*

Lab Sample ID: LCSD 440-505023/4
Matrix: Solid
Analysis Batch: 505023

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)			1600	1170		ug/Kg		73	70 - 135	6	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*121*		*65 - 140*

Lab Sample ID: 440-221644-1 MS
Matrix: Solid
Analysis Batch: 505023

Client Sample ID: AOC4-SV17-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	ND		1580	1030		ug/Kg		65	60 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*95*		*65 - 140*

Lab Sample ID: 440-221644-1 MSD
Matrix: Solid
Analysis Batch: 505023

Client Sample ID: AOC4-SV17-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	ND		1590	1100		ug/Kg		69	60 - 140	6	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*113*		*65 - 140*

Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: MB 440-505024/4
Matrix: Water
Analysis Batch: 505024

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C4-C12)	ND		50	25	ug/L			10/14/18 09:41	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*65 - 140*		*10/14/18 09:41*	*1*

Lab Sample ID: LCS 440-505024/3
Matrix: Water
Analysis Batch: 505024

Client Sample ID: Lab Control Sample
Prep Type: Total/NA

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)			800	705		ug/L		88	80 - 120		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*65 - 140*

Lab Sample ID: 440-221398-B-3 MS
Matrix: Water
Analysis Batch: 505024

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
GRO (C4-C12)	64		800	734		ug/L		84	65 - 140		

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*108*		*65 - 140*

Lab Sample ID: 440-221398-B-3 MSD
Matrix: Water
Analysis Batch: 505024

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
GRO (C4-C12)	64		800	721		ug/L		82	65 - 140	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*65 - 140*

Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 440-504060/1-A
Matrix: Water
Analysis Batch: 504496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504060

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		0.50	0.25	mg/L		10/10/18 10:33	10/11/18 19:52	1
ORO (C23-C40)	ND		0.50	0.25	mg/L		10/10/18 10:33	10/11/18 19:52	1

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: MB 440-504060/1-A
Matrix: Water
Analysis Batch: 504496

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504060

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	74		45 - 120	10/10/18 10:33	10/11/18 19:52	1

Lab Sample ID: LCS 440-504060/2-A
Matrix: Water
Analysis Batch: 504496

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504060

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			1.00	0.437	J	mg/L		44	40 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	90		45 - 120

Lab Sample ID: LCSD 440-504060/3-A
Matrix: Water
Analysis Batch: 504496

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 504060

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28			1.00	0.475	J	mg/L		48	40 - 115	8	25

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
n-Octacosane	79		45 - 120

Lab Sample ID: MB 440-504282/1-A
Matrix: Solid
Analysis Batch: 504384

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504282

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C13-C22)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 14:47	1
ORO (C23-C40)	ND		5.0	2.5	mg/Kg		10/11/18 06:50	10/11/18 14:47	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane	98		40 - 140	10/11/18 06:50	10/11/18 14:47	1

Lab Sample ID: LCS 440-504282/2-A
Matrix: Solid
Analysis Batch: 504384

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504282

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
C10-C28			66.7	52.2		mg/Kg		78	45 - 115		

Surrogate	LCS %Recovery	LCS Qualifier	Limits
n-Octacosane	87		40 - 140

Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: 440-221792-G-2-D MS — **Client Sample ID: Matrix Spike**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 504384 — **Prep Batch: 504282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
C10-C28	2.5	J	66.6	58.0		mg/Kg		83	40 - 120

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
n-Octacosane	*90*		*40 - 140*

Lab Sample ID: 440-221792-G-2-E MSD — **Client Sample ID: Matrix Spike Duplicate**
Matrix: Solid — **Prep Type: Total/NA**
Analysis Batch: 504384 — **Prep Batch: 504282**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
C10-C28	2.5	J	66.6	55.0		mg/Kg		79	40 - 120	5	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
n-Octacosane	*88*		*40 - 140*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Lab Sample ID: MB 440-503698/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504021 — **Prep Batch: 503698**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1221	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1232	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1242	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1248	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1254	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1
Aroclor 1260	ND		1.0	0.50	ug/L		10/09/18 06:24	10/10/18 12:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*93*		*26 - 115*	*10/09/18 06:24*	*10/10/18 12:37*	*1*

Lab Sample ID: LCS 440-503698/4-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 504021 — **Prep Batch: 503698**

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			4.00	2.46		ug/L		61	50 - 115
Aroclor 1260			4.00	3.09		ug/L		77	53 - 120

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*26 - 115*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: LCSD 440-503698/5-A
Matrix: Water
Analysis Batch: 504021

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 503698

Analyte			Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016			4.00	3.06		ug/L		76	50 - 115	18	22
Aroclor 1260			4.00	3.30		ug/L		82	53 - 120	3	16

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*77*		*26 - 115*

Lab Sample ID: MB 440-504287/1-A
Matrix: Solid
Analysis Batch: 504378

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 504287

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1221	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1232	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1242	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1248	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1254	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1
Aroclor 1260	ND		50	17	ug/Kg		10/11/18 07:11	10/11/18 16:30	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCB Decachlorobiphenyl (Surr)	*105*		*45 - 120*	*10/11/18 07:11*	*10/11/18 16:30*	*1*

Lab Sample ID: LCS 440-504287/2-A
Matrix: Solid
Analysis Batch: 504378

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 504287

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016			267	245		ug/Kg		92	65 - 115
Aroclor 1260			267	254		ug/Kg		95	65 - 115

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*95*		*45 - 120*

Lab Sample ID: 440-221812-A-66-B MS
Matrix: Solid
Analysis Batch: 504378

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 504287

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	ND		265	244		ug/Kg		92	50 - 120
Aroclor 1260	ND		265	262		ug/Kg		99	50 - 125

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*88*		*45 - 120*

Method: 8082 - Polychlorinated Biphenyls (PCBs) by Gas Chromatography (Continued)

Lab Sample ID: 440-221812-A-66-E MSD
Matrix: Solid
Analysis Batch: 504378

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 504287

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Aroclor 1016	ND		266	247		ug/Kg		93	50 - 120	1	30
Aroclor 1260	ND		266	267		ug/Kg		101	50 - 125	2	30

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
DCB Decachlorobiphenyl (Surr)	*89*		*45 - 120*

GC/MS VOA

Analysis Batch: 503694

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8260B	503776
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8260B	503776
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8260B	503776
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8260B	503776
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8260B	503776
MB 440-503694/5	Method Blank	Total/NA	Solid	8260B	
LCS 440-503694/6	Lab Control Sample	Total/NA	Solid	8260B	
440-221605-B-9 MS	Matrix Spike	Total/NA	Solid	8260B	
440-221605-B-9 MSD	Matrix Spike Duplicate	Total/NA	Solid	8260B	

Prep Batch: 503776

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	5035	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	5035	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	5035	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	5035	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	5035	

Analysis Batch: 504839

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-3	TB-20181006	Total/NA	Water	8260B	
440-221644-7	EB-20181006	Total/NA	Water	8260B	
MB 440-504839/4	Method Blank	Total/NA	Water	8260B	
LCS 440-504839/5	Lab Control Sample	Total/NA	Water	8260B	
440-221818-A-18 MS	Matrix Spike	Total/NA	Water	8260B	
440-221818-A-18 MSD	Matrix Spike Duplicate	Total/NA	Water	8260B	

GC VOA

Analysis Batch: 504895

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8015B	
MB 440-504895/53	Method Blank	Total/NA	Solid	8015B	
LCS 440-504895/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-504895/52	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-221711-A-1 MS	Matrix Spike	Total/NA	Solid	8015B	
440-221711-A-1 MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	

Analysis Batch: 505023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8015B	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8015B	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8015B	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8015B	
MB 440-505023/5	Method Blank	Total/NA	Solid	8015B	
LCS 440-505023/3	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 440-505023/4	Lab Control Sample Dup	Total/NA	Solid	8015B	
440-221644-1 MS	AOC4-SV17-5	Total/NA	Solid	8015B	
440-221644-1 MSD	AOC4-SV17-5	Total/NA	Solid	8015B	

GC VOA (Continued)

Analysis Batch: 505024

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8015B	
MB 440-505024/4	Method Blank	Total/NA	Water	8015B	
LCS 440-505024/3	Lab Control Sample	Total/NA	Water	8015B	
440-221398-B-3 MS	Matrix Spike	Total/NA	Water	8015B	
440-221398-B-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8015B	

GC Semi VOA

Prep Batch: 503698

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	3510C	
MB 440-503698/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-503698/4-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-503698/5-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Analysis Batch: 504021

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8082	503698
MB 440-503698/1-A	Method Blank	Total/NA	Water	8082	503698
LCS 440-503698/4-A	Lab Control Sample	Total/NA	Water	8082	503698
LCSD 440-503698/5-A	Lab Control Sample Dup	Total/NA	Water	8082	503698

Prep Batch: 504060

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	3510C	
MB 440-504060/1-A	Method Blank	Total/NA	Water	3510C	
LCS 440-504060/2-A	Lab Control Sample	Total/NA	Water	3510C	
LCSD 440-504060/3-A	Lab Control Sample Dup	Total/NA	Water	3510C	

Prep Batch: 504282

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	3546	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	3546	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	3546	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	3546	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	3546	
MB 440-504282/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-504282/2-A	Lab Control Sample	Total/NA	Solid	3546	
440-221792-G-2-D MS	Matrix Spike	Total/NA	Solid	3546	
440-221792-G-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Prep Batch: 504287

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	3546	
440-221644-2	AOC4-SV17-15	Total/NA	Solid	3546	
440-221644-4	AOC4-SV16-5	Total/NA	Solid	3546	
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	3546	
440-221644-6	AOC4-SV16-15	Total/NA	Solid	3546	
MB 440-504287/1-A	Method Blank	Total/NA	Solid	3546	
LCS 440-504287/2-A	Lab Control Sample	Total/NA	Solid	3546	

GC Semi VOA (Continued)

Prep Batch: 504287 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221812-A-66-B MS	Matrix Spike	Total/NA	Solid	3546	
440-221812-A-66-E MSD	Matrix Spike Duplicate	Total/NA	Solid	3546	

Analysis Batch: 504378

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8082	504287
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8082	504287
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8082	504287
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8082	504287
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8082	504287
MB 440-504287/1-A	Method Blank	Total/NA	Solid	8082	504287
LCS 440-504287/2-A	Lab Control Sample	Total/NA	Solid	8082	504287
440-221812-A-66-B MS	Matrix Spike	Total/NA	Solid	8082	504287
440-221812-A-66-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8082	504287

Analysis Batch: 504384

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-1	AOC4-SV17-5	Total/NA	Solid	8015B	504282
440-221644-2	AOC4-SV17-15	Total/NA	Solid	8015B	504282
440-221644-4	AOC4-SV16-5	Total/NA	Solid	8015B	504282
440-221644-5	AOC4-SV16-5D	Total/NA	Solid	8015B	504282
440-221644-6	AOC4-SV16-15	Total/NA	Solid	8015B	504282
MB 440-504282/1-A	Method Blank	Total/NA	Solid	8015B	504282
LCS 440-504282/2-A	Lab Control Sample	Total/NA	Solid	8015B	504282
440-221792-G-2-D MS	Matrix Spike	Total/NA	Solid	8015B	504282
440-221792-G-2-E MSD	Matrix Spike Duplicate	Total/NA	Solid	8015B	504282

Analysis Batch: 504496

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
440-221644-7	EB-20181006	Total/NA	Water	8015B	504060
MB 440-504060/1-A	Method Blank	Total/NA	Water	8015B	504060
LCS 440-504060/2-A	Lab Control Sample	Total/NA	Water	8015B	504060
LCSD 440-504060/3-A	Lab Control Sample Dup	Total/NA	Water	8015B	504060

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

GC Semi VOA

Qualifier	Qualifier Description
X	Surrogate is outside control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
PQL	Practical Quantitation Limit
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)

Accreditation/Certification Summary

Client: Parsons Corporation
Project/Site: LAUSD Reseda H.S., CA

TestAmerica Job ID: 440-221644-1

Laboratory: TestAmerica Irvine

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
California	State Program	9	CA ELAP 2706	06-30-19

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8015B		Solid	GRO (C4-C12)
8015B		Water	GRO (C4-C12)
8015B	3510C	Water	DRO (C13-C22)
8015B	3510C	Water	ORO (C23-C40)
8015B	3546	Solid	DRO (C13-C22)
8015B	3546	Solid	ORO (C23-C40)
8260B		Water	m,p-Xylene
8260B	5035	Solid	m,p-Xylene

TestAmerica Irvine
17461 Derian Ave
Suite 100
Irvine, CA 92614
Phone: 949.261.1022 Fax:

Chain of Custody Record 206836

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING
TestAmerica Laboratories, Inc.
TAL-8210 (0713)

Regulatory Program: ☐ DW ☐ NPDES ☐ RCRA ☐ Other:

Client Contact	Project Manager: Justin King	Site Contact: C. Crozier	Date: 10/6/18	COC No: 1
Company Name: Parsons	Tel/Fax: 310 809 5793	Lab Contact:	Carrier:	1 of 1 COCs
Address: 100 W. Walnut St	Analysis Turnaround Time			Sampler:
City/State/Zip: Pasadena CA 91124	☐ CALENDAR DAYS ☐ WORKING DAYS			For Lab Use Only:
Phone: 626 440 6133	TAT if different from Below _____			Walk-in Client
Fax:	☐ 2 weeks			Lab Sampling:
Project Name: Reseda HS	☐ 1 week			Job / SDG No :
Site:	☐ 2 days			
P O #:	☐ 1 day			

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Filtered Sample (Y/N)	Perform MS / MSD (Y/N)	GRO 8015	DRO 8015	VOCs 8260	PCB 8082	Sample Specific Notes:
AOC4-SV17-5	10/6/18	0847	G	S	5			X	X	X	X	
AOC4-SV17-15	10/6/18	0906	G	S	5			X	X	X	X	
TB-20181006	10/6/18	1015	G	W	3					X		
AOC4-SV16-5	10/6/18	1024	G	S	5			X	X	X	X	
AOC4-SV16-5D	10/6/18	1030	G	S	5			X	X	X	X	
AOC4-SV16-15	10/6/18	1045	G	S	5			X	X	X	X	
EB-20181006	10/6/18	1100	G	W	9			X	X	X	X	

10/6/18 10/6/18

440-221644 Chain of Custody

Preservation Used: 1= Ice, 2= HCl; 3= H2SO4; 4=HNO3; 5=NaOH; 6= Other _____

Possible Hazard Identification:
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

☐ Return to Client ☐ Disposal by Lab ☐ Archive for _____ Months

Special Instructions/QC Requirements & Comments: VOCs include MEK and MTBE

Custody Seals Intact ☐ Yes ☐ No | Custody Seal No. | Cooler Temp (°C) Obs'd: _____ Corr'd _____ | Therm ID No: _____

	Company	Date/Time		Company	Date/Time
Relinquished by:	Parsons	10/6/18 1200	Received by:	TA-IRV	10/6/18 1200
Relinquished by:	TA-IRV	1355	Received by:	Company	Date/Time
Relinquished by:	Company	Date/Time	Received in Laboratory by: Teresa Ortiz	Company: TA IRV	Date/Time: 10/6/18 1405

4.1/4.4 IR66

Login Sample Receipt Checklist

Client: Parsons Corporation

Job Number: 440-221644-1

Login Number: 221644

List Source: TestAmerica Irvine

List Number: 1

Creator: Soderblom, Tim

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	Not present
Sample custody seals, if present, are intact.	N/A	Not Present
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

APPENDIX F

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

SAMPLING METHODOLOGY & LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12769 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project Name:	Reseda High School	**Date Analyzed:**	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Indoor Air samples were collected in 6 Liter SUMMA Canisters over an 8-hour period.

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12769 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample ID:	**OAS-1**	**IAS-1**	**IAS-2**	**IAS-3**	**IAS-4**		
Jones ID:	**ST-12769-01**	**ST-12769-02**	**ST-12769-03**	**ST-12769-04**	**ST-12769-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	**0.38**	**0.45**	**0.44**	**0.46**	**0.44**	0.10	µg/m3
Tetrachloroethene	**0.13**	**0.16**	**0.22**	**0.30**	**0.15**	0.10	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	99%	100%	100%	99%	100%	60 - 140	
	TO1-100618-01	TO1-100618-01	TO1-100618-01	TO1-100618-01	TO1-100618-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12769 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample ID:	**OAS-3**	**OAS-2**		
Jones ID:	**ST-12769-06**	**ST-12769-07**	**Reporting Limit**	**Units**
Analytes:				
Benzene	**0.42**	**0.43**	0.10	µg/m3
Tetrachloroethene	**0.15**	**0.15**	0.10	µg/m3
Dilution Factor	1	1		
Surrogate Recovery:			**QC Limits**	
4-Bromofluorobenzene	99%	99%	60 - 140	
	TO1-100618-01	TO1-100618-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12769 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample ID:	**METHOD BLANK**		
Jones ID:	**100618-TO1MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.10	µg/m3
Tetrachloroethene	ND	0.10	µg/m3
Dilution Factor	1		
Surrogate Recovery:		**QC Limits**	
4-Bromofluorobenzene	97%	60 - 140	
	TO1-100618-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/7/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12769 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air

Sample Spiked: Ambient Air **GC#:** TO1-100618-01

Jones ID: **100618-TO1CCV1** **100618-TO1CCVD1**

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	73%	78%	6.4%	70-130
1,1-Dichloroethylene	84%	87%	3.7%	70-130
Cis-1,2-Dichloroethene	83%	92%	10.0%	70-130
1,1,1-Trichloroethane	94%	95%	1.7%	70-130
Benzene	100%	103%	3.1%	70-130
Trichloroethylene	92%	100%	8.3%	70-130
Toluene	102%	105%	3.1%	70-130
Tetrachloroethene	110%	119%	8.4%	70-130
Chlorobenzene	112%	115%	2.8%	70-130
Ethylbenzene	105%	108%	3.0%	70-130
1,2,4 Trimethylbenzene	102%	106%	4.6%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	98%	98%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain of Custody Record

Client: Parsons
Date: 10-5-18
Project Name: Reseda High School
Client Project #: 450810
Project Address: 18230 Kittridge St. Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: AMO & CJ

Purge Number: □ 1P □ 3P □ 7P □ 10P
Shut-In Test: Y / N
Flow Rate: _____
If different than above, see Notes.

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

Turn Around Requested:
- □ Immediate Attention
- ☒ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- □ Mobile Lab

Tracer:
- □ n-pentane
- □ n-hexane
- □ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: _____

LAB USE ONLY
Jones Project # ST-12769
Page 1 of 1
Sample Condition as Recieved: Sealed □ yes □ no
Sample Container: summa
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Canister ID	Canister Start Pressure	Canister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (PCE Reporting Only)	Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
OAS-1			10/5			ST-12769-01	B2674	-26	0	0719	1450	SG		X		1	
IAS-1			10/5			ST-12769-02	B2673	-28	0	0714	1456	SG		X		1	
IAS-2			10/5			ST-12769-03	B2677	-28	0	0717	1458	SG		X		1	
IAS-3			10/5			ST-12769-04	B2671	-28	1	0716	1505	SG		X		1	
IAS-4			10/5			ST-12769-05	B2479	-28	1	0715	1507	SG		X		1	
OAS-3			10/5			ST-12769-06	B1877	-30	2	0717	1514	SG		X		1	
OAS-2			10/5			ST-12769-07	B2463	-30	4	0719	1520	SG		X		1	

Total Number of Containers: 7

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name
	Justin King		Annalise OTaro
Company: Parsons	Date: 10-5-18 Time: 1615	Company: Jones Environmental	Date: 10-5-18 Time: 1615
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name
	Annalise OTaro		Douglas Fowler
Company: Jones Environmental	Date: 10-6-18 Time: 1725	Company: Jones Environmental	Date: 10/06/2018 Time: 1800

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

SAMPLING METHODOLOGY & LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:**	10/6/2018
		Date Received:	10/6/2018
Project Name:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Indoor Air samples were collected in 6 Liter SUMMA Canisters over an 8-hour period.

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

David Mirakian, M.S.
Stationary Lab Chemist

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	**OAS-1**	**OAS-2**	**OAS-3**	**IAS-1**	**IAS-1 REP**		
Jones ID:	**ST-12770-01**	**ST-12770-02**	**ST-12770-03**	**ST-12770-04**	**ST-12770-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	**0.60**	**0.61**	**0.35**	**0.96**	**0.93**	0.10	µg/m3
Tetrachloroethene	**0.21**	**0.20**	**0.14**	**0.25**	**0.26**	0.10	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	100%	101%	107%	100%	102%	60 - 140	
	TO1-100618-IA-CHECKS	TO1-100618-IA-CHECKS	TO1-100718-IA-CHECKS	TO1-100718-IA-CHECKS	TO1-100718-IA-CHECKS		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	**IAS-2**	**IAS-3**	**IAS-4**		
Jones ID:	**ST-12770-06**	**ST-12770-07**	**ST-12770-08**	**Reporting Limit**	**Units**
Analytes:					
Benzene	**0.82**	**0.78**	**1.06**	0.10	µg/m3
Tetrachloroethene	**0.23**	**0.39**	**0.26**	0.10	µg/m3
Dilution Factor	1	1	1		
Surrogate Recovery:				**QC Limits**	
4-Bromofluorobenzene	101%	100%	98%	60 - 140	
	TO1-100718-IA-CHECKS	TO1-100718-IA-CHECKS	TO1-100818-IA-CHECKS		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	METHOD BLANK	METHOD BLANK	METHOD BLANK		
Jones ID:	100618-HBLK6	100718-HBLK6	100818-HBLK6	**Reporting Limit**	**Units**
Analytes:					
Benzene	ND	ND	ND	0.100	µg/m3
Tetrachloroethene	ND	ND	ND	0.100	µg/m3
Dilution Factor	1	1	1		
Surrogate Recovery:				**QC Limits**	
4-Bromofluorobenzene	97%	98%	99%	60 - 140	
	TO1-100618-IA-CHECKS	TO1-100718-IA-CHECKS	TO1-100818-IA-CHECKS		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-100618-IA-CHECKS

Jones ID:

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	73%	78%	6.4%	70-130
1,1-Dichloroethylene	84%	87%	3.7%	70-130
Cis-1,2-Dichloroethene	83%	92%	10.0%	70-130
1,1,1-Trichloroethane	94%	95%	1.7%	70-130
Benzene	100%	103%	3.1%	70-130
Trichloroethylene	92%	100%	8.3%	70-130
Toluene	102%	105%	3.1%	70-130
Tetrachloroethene	110%	119%	8.4%	70-130
Chlorobenzene	112%	115%	2.8%	70-130
Ethylbenzene	105%	108%	3.0%	70-130
1,2,4 Trimethylbenzene	102%	106%	4.6%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	98%	98%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-100718-IA-CHECKS

Jones ID:

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	74%	79%	6.2%	70-130
1,1-Dichloroethylene	85%	86%	0.9%	70-130
Cis-1,2-Dichloroethene	84%	92%	9.1%	70-130
1,1,1-Trichloroethane	95%	94%	0.8%	70-130
Benzene	101%	106%	4.7%	70-130
Trichloroethylene	92%	102%	9.9%	70-130
Toluene	101%	105%	3.9%	70-130
Tetrachloroethene	114%	123%	8.1%	70-130
Chlorobenzene	106%	114%	8.0%	70-130
Ethylbenzene	102%	110%	7.5%	70-130
1,2,4 Trimethylbenzene	103%	108%	4.5%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	100%	100%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12770 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/6-8/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-100818-IA-CHECKS

Jones ID:

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	81%	78%	4.0%	70-130
1,1-Dichloroethylene	88%	90%	2.7%	70-130
Cis-1,2-Dichloroethene	94%	92%	1.7%	70-130
1,1,1-Trichloroethane	101%	94%	6.6%	70-130
Benzene	106%	106%	0.8%	70-130
Trichloroethylene	100%	98%	1.6%	70-130
Toluene	107%	106%	0.7%	70-130
Tetrachloroethene	119%	117%	2.0%	70-130
Chlorobenzene	112%	114%	2.1%	70-130
Ethylbenzene	110%	110%		70-130
1,2,4 Trimethylbenzene	110%	109%	1.5%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	102%	98%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain of Custody Record

Client: Parsons
Project Name: Reseda High School
Project Address: 18230 Kittridge St. Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: ANO

Date: 10-6-18
Client Project #: 450810

Turn Around Requested:
- ☐ Immediate Attention
- ☒ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☐ Mobile Lab

Purge Number: ☐ 1P ☐ 3P ☐ 7P ☐ 10P
Shut-In Test: Y / N
Flow Rate: _____
If different than above, see Notes.

Tracer:
- ☐ n-pentane
- ☐ n-hexane
- ☐ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

Reporting Limits Requested: ☐ Commercial ☒ Residential
Units: _____

LAB USE ONLY
Jones Project # ST-12770
Page 1 of 1
Sample Condition as Recieved: Sealed ☐ yes ☐ no
Sample Container: Summa
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Canister ID	Canister Start Pressure	Canister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (PCE, benzene)	Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
OAS-1			10/6			ST-12770-01	B2480	-30	-3	0718	1510	SG		X		1	
OAS-2			10/6			ST-12770-02	B2477	-30	-4	0719	1514	SG		X		1	
OAS-3			10/6			ST-12770-03	1388	-30	-3	0715	1520	SG		X		1	
IAS-1			10/6			ST-12770-04	B2468	-30	-2	0713	1455	SG		X		1	
IAS-1 REP			10/6			ST-12770-05	B2412	-30	-4	0713	1455	SG		X		1	
IAS-2			10/6			ST-12770-06	B2474	-30	-4	0717	1521	SG		X		1	
IAS-3			10/6			ST-12770-07	B2469	-29	-2	0716	1458	SG		X		1	
IAS-4			10/6			ST-12770-08	1596	-30	-1	0714	1255	SG		X		1	

Total Number of Containers: 8

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name
	Carrie Crozier		Annalise OTarre
Company: Parsons	Date: 10-6-18 Time: 1549	Company: Jones Environmental	Date: 10-6-18 Time: 1549
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name
	Annalise OTarre		Douglas Fowler
Company: Jones Environmental	Date: 10-6-18 Time: 1725	Company: Jones Environmental	Date: 10/06/2018 Time: 1800

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

SAMPLING METHODOLOGY & LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12771 450810
Attn:	Justin King	**Date Sampled:**	10/6/2018
		Date Received:	10/6/2018
Project Name:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1 Liter SUMMA canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12771 450810
Attn:	Justin King	**Date Sampled:**	10/6/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Sample ID:	**AOC4-SS5**	**AOC4-SS12**	**AOC4-SS3**	**AOC4-SS7**		
Jones ID:	**ST-12771-01**	**ST-12771-02**	**ST-12771-03**	**ST-12771-04**	**Reporting Limit**	**Units**
Analytes:						
Benzene	ND	ND	ND	ND	3	µg/m3
Tetrachloroethene	**19**	**127**	**374**	**9**	3	µg/m3
Tracer:						
n-Pentane	ND	ND	ND	**4390E**	30	µg/m3
n-Hexane	ND	ND	ND	**3600E**	30	µg/m3
n-Heptane	ND	ND	ND	**3490E**	30	µg/m3
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	111%	105%	107%	109%	60 - 140	
Toluene-d_8	98%	99%	100%	103%	60 - 140	
4-Bromofluorobenzene	101%	97%	101%	101%	60 - 140	
	E1-100718-01	E1-100718-01	E1-100718-01	E1-100718-01		

ND= Value less than reporting limit
E = Estimated value

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12771 450810
Attn:	Justin King	**Date Sampled:**	10/6/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**100718-E1MB1**	**100718-E1SB1**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	3	µg/m3
Tetrachloroethene	ND	ND	3	µg/m3
Tracer:				
n-Pentane	ND	ND	30	µg/m3
n-Hexane	ND	ND	30	µg/m3
n-Heptane	ND	ND	30	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	110%	111%	60 - 140	
Toluene-d_8	100%	99%	60 - 140	
4-Bromofluorobenzene	102%	96%	60 - 140	
	E1-100718-01	E1-100718-01		

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12771 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/6/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E1-100718-01

Jones ID:	**100718-E1LCS1**	**100718-E1LCSD1**			**100718-E1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	111%	104%	7.2%	60 - 140	98%	80 - 120
1,1-Dichloroethene	110%	106%	4.2%	60 - 140	93%	80 - 120
Cis-1,2-Dichloroethene	127%	127%	0.2%	70 - 130	109%	80 - 120
1,1,1-Trichloroethane	136%	135%	0.1%	70 - 130	124%	80 - 120
Benzene	113%	110%	2.8%	70 - 130	111%	80 - 120
Trichloroethene	106%	102%	3.5%	70 - 130	110%	80 - 120
Toluene	104%	103%	1.2%	70 - 130	101%	80 - 120
Tetrachloroethene	106%	105%	1.0%	70 - 130	106%	80 - 120
Chlorobenzene	98%	101%	3.5%	70 - 130	103%	80 - 120
Ethylbenzene	105%	104%	0.4%	70 - 130	97%	80 - 120
1,2,4 Trimethylbenzene	93%	92%	1.9%	70 - 130	98%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	106%	105%		60 - 140	97%	60 - 140
Toluene-d_8	96%	100%		60 - 140	96%	60 - 140
4-Bromofluorobenzene	103%	101%		60 - 140	107%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain of Custody Record

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) N
Flow Rate: _____
If different than above, see Notes.

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project # ST-12771
Page 1 of 1
Sample Condition as Recieved: Sealed □ yes □ no
Sample Container: Summa
If different than above, see Notes.

Client: Parsons
Date: 10-6-18
Project Name: Reseda High School
Client Project #: 450810
Project Address: 18230 Kittridge St. Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: AMO

Turn Around Requested:
□ Immediate Attention
☒ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
□ Mobile Lab

Tracer:
☒ n-pentane
☒ n-hexane
☒ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units:

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Cannister ID	Cannister Start Pressure	Cannister End Pressure	Sampling Start Time	Sampling End Time	Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15	Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SS5	1	125	10/6			ST-12771-01	1510	-32	-5	1507	1316	SG		X		1	
AOC4-SS12	1	125	10/6			ST-12771-02	1511	-29	-5	1543	1550	SG		X		1	
AOC4-SS3	1	125	10/6			ST-12771-03	B2443	-29	-1	1538	1545	SG		X		1	
AOC4-SS7	1	125	10/6			ST-12771-04	B2446	-30	-4	1528	1538	SG		X		1	

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name		
Carrie Crozier	Carrie Crozier	Annalise O'Toole	Annalise O'Toole	9	Total Number of Containers
Company: Parsons	Date: 10-6-18 Time: 1522	Company: Jones Environmental	Date: 10-6-18 Time: 1552		
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name		
Annalise O'Toole	Annalise O'Toole		Douglas Fowler		
Company: Jones Environmental	Date: 10-6-18 Time: 1725	Company: Jones Environmental	Date: 10/06/2018 Time: 1803		

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

SAMPLING METHODOLOGY & LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	ST-12772 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project Name:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected 1 Liter SUMMA canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12772 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Sample ID:	**AOC4-SS5**	**AOC4-SS12**	**AOC4-SS3**	**AOC4-SS3 REP**	**AOC4-SS7**		
Jones ID:	**ST-12772-01**	**ST-12772-02**	**ST-12772-03**	**ST-12772-04**	**ST-12772-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	3	µg/m3
Tetrachloroethene	**4**	**89**	**323**	**373**	**234**	3	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	30	µg/m3
n-Hexane	ND	ND	ND	ND	ND	30	µg/m3
n-Heptane	ND	ND	ND	ND	ND	30	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	89%	91%	91%	85%	88%	60 - 140	
Toluene-d_8	91%	91%	91%	93%	94%	60 - 140	
4-Bromofluorobenzene	89%	91%	91%	89%	96%	60 - 140	
	D1-100718-01	D1-100718-01	D1-100718-01	D1-100718-01	D1-100718-01		

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12772 450810
Attn:	Justin King	**Date Sampled:**	10/5/2018
		Date Received:	10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**100718-D1MB1**	**100718-D1SB1**	**Reporting Limit**	**Units**
Analytes:				
Benzene	ND	ND	3	µg/m3
Tetrachloroethene	ND	ND	3	µg/m3
Tracer:				
n-Pentane	ND	ND	30	µg/m3
n-Hexane	ND	ND	30	µg/m3
n-Heptane	ND	ND	30	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	87%	77%	60 - 140	
Toluene-d_8	87%	98%	60 - 140	
4-Bromofluorobenzene	92%	87%	60 - 140	
	D1-100718-01	D1-100718-01		

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/8/2018
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	ST-12772 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	10/5/2018 10/6/2018
Project:	Reseda High School	**Date Analyzed:**	10/7/2018
Project Address:	18230 Kittridge St. Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS

Batch ID: D1-100718-01

Jones ID:	**100718-D1LCS1**	**100718-D1LCSD1**			**100718-D1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	121%	130%	7.3%	60 - 140	122%	80 - 120
1,1-Dichloroethene	111%	114%	2.0%	60 - 140	116%	80 - 120
Cis-1,2-Dichloroethene	107%	107%	0.3%	70 - 130	106%	80 - 120
1,1,1-Trichloroethane	104%	107%	2.2%	70 - 130	104%	80 - 120
Benzene	118%	119%	0.6%	70 - 130	100%	80 - 120
Trichloroethene	103%	102%	0.7%	70 - 130	104%	80 - 120
Toluene	92%	94%	2.8%	70 - 130	96%	80 - 120
Tetrachloroethene	88%	93%	5.5%	70 - 130	91%	80 - 120
Chlorobenzene	75%	90%	17.1%	70 - 130	102%	80 - 120
Ethylbenzene	97%	99%	1.9%	70 - 130	102%	80 - 120
1,2,4 Trimethylbenzene	92%	99%	7.8%	70 - 130	102%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	92%	94%		60 - 140	99%	60 - 140
Toluene-d_8	89%	94%		60 - 140	97%	60 - 140
4-Bromofluorobenzene	95%	93%		60 - 140	104%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain of Custody Record

Client: Parsons
Date: 10-5-18
Project Name: Reseda High School
Client Project #: 450810
Project Address: 18230 Kittridge St.
Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: AMO

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: ☒ Y / □ N
Flow Rate: _____
If different than above, see Notes.

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

Turn Around Requested:
- □ Immediate Attention
- ☒ Rush 24 Hours
- □ Rush 48 Hours
- □ Rush 72 Hours
- □ Normal
- □ Mobile Lab

Tracer:
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- □ Helium
- □ 1,1-DFA
- □ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: _____

LAB USE ONLY
Jones Project #: ST-12772
Page: 1 of 1
Sample Condition as Recieved: Sealed □ yes □ no
Sample Container: Sumina
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Canister ID	Canister Start Pressure	Canister End Pressure	Sampling Start Time	Sampling End Time	Analysis Requested: Sample Matrix: Soil Gas (SG), Air (A)	EPA 8260B	EPA TO-15 (reqd. TICs and benzene)	Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
~~AMO~~C4-SS5	1	125	10/5			ST-12772-01	01187	-30	-5	1528	1536	SG	☒	X		1	
AOC4-SS12	1	125	10/5			ST-12772-02	B2449	-31	-5	1542	1549	SG		X		1	
~~AMO~~C4-SS3	1	125	10/5			ST-12772-03	B2432	-30	-5	1555	1601	SG		X		1	
~~AMO~~C4-SS3REP	1	125	10/5			ST-12772-04	B2418	-29	-5	1555	1601	SG		X		1	
AOC4-SS7	1	125	10/5			ST-12772-05	~~B2413~~ B2421	-30	-5	1608	1617	SG		X		1	

Relinquished By (Signature): Printed Name: Justin King
Company: Parsons Date: 10-5-18 Time: 1615
Relinquished By (Signature): Printed Name: Annalise OToole
Company: Jones Environmental Date: 10-6-18 Time: 1725

Received By (Signature): Printed Name: Annalise OToole
Company: Jones Environmental Date: 10-5-18 Time: 1615
Received By Laboratory (Signature): Printed Name: Douglas Fowler
Company: Jones Environmental Date: 10/06/2018 Time: 1805

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:**	ST-13160
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project Name:	Reseda High School PEA	**Date Analyzed:**	1/5/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Sampling – Soil Gas samples were collected in 1-Liter SUMMA Canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the TO-15 analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No tracer was detected in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except if noted differently on the chain of custody record. Purging was done using a pump set at approximately 200 cc/min, except if noted differently on the chain of custody record. 3 purge volumes were used. (A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.)

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for some length of time. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

Analytical – Soil Gas samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13160
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/5/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

Sample ID:	**AOC4-SS12**	**AOC4-SS12 DUP**	**AOC4-SS5**	**AOC4-SS3**	**AOC4-SS7**		
Jones ID:	**ST-13160-01**	**ST-13160-02**	**ST-13160-03**	**ST-13160-04**	**ST-13160-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	1.0	µg/m3
Tetrachloroethene	**79.6**	**85.2**	**42.6**	**245**	**122.0**	1.0	µg/m3
Dilution Factor	1	1	1	1	1		
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	10	µg/m3
n-Hexane	ND	ND	ND	ND	ND	10	µg/m3
n-Heptane	ND	ND	ND	ND	ND	10	µg/m3
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	100%	100%	101%	100%	101%	60 - 140	
	TO1-010519-01	TO1-010519-01	TO1-010519-01	TO1-010519-01	TO1-010519-01		

ND = Value below reporting lin

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13160
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/5/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

Sample ID:	**METHOD BLANK**						
Jones ID:	**010519-TO1MB1**					**Reporting Limit**	**Units**
Analytes:							
Benzene	ND					1.0	µg/m3
Tetrachloroethene	ND					1.0	µg/m3
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	10	µg/m3
n-Hexane	ND	ND	ND	ND	ND	10	µg/m3
n-Heptane	ND	ND	ND	ND	ND	10	µg/m3
Dilution Factor	1						
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	102%					60 - 140	
	TO1-0105919-01						

ND = Value below reporting lin

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13160
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/5/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-010519-01

Jones ID: **010519-TO1CCV1** **010519-TO1CCVD1**

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	109%	104%	4.7%	70-130
1,1-Dichloroethylene	106%	108%	1.9%	70-130
Cis-1,2-Dichloroethene	110%	111%	0.9%	70-130
1,1,1-Trichloroethane	94%	99%	5.2%	70-130
Benzene	106%	108%	1.9%	70-130
Trichloroethylene	103%	98%	5.0%	70-130
Toluene	108%	108%	0.0%	70-130
Tetrachloroethene	86%	91%	5.6%	70-130
Chlorobenzene	101%	104%	2.9%	70-130
Ethylbenzene	110%	112%	1.8%	70-130
1,2,4 Trimethylbenzene	97%	100%	3.0%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	104%	101%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Air Chain-of-Custody Record

Client: Parsons
Date: 1-3-19
Project Name: Reseda High School PEA
Client Project #:
Project Address: 18230 Kittridge Street, Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: ANO

Purge Rate: _____ cc/min
Shut In Test: Y / N

Jones Project #: ST-13160
Page: 1 of 1

Turn Around Requested:
- ☐ Immediate Attention
- Rush: ☐ 24hr ☐ 48hr ☐ 72hr ☐ 96hr
- ☑ Normal

Tracer:
- ☐ n-pentane
- ☐ Helium
- ☐ _____

Purge Number:
- ☐ 1 PV
- ☐ 3 PV
- ☐ 7 PV
- ☐ 10 PV

Analysis Requested

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H_2O)	Number of Containers
AOC4-SS12	1-3-19	3	12S	ST-13160-01	B2450	-30	-5	200	1512	1520	X			1
AOC4-SS12 DUP	1-3-19	3	12S	ST-13160-02	B2447	-30	-5	200	1512	1519	X			1
AOC4-SS5	1-3-19	3	12S	ST-13160-03	B2460	-30	-4	200	1543	1549	X			1
AOC4-SS3	1-3-19	3	12S	ST-13160-04	B2444	-29	-5	200	1525	1530	X			1
AOC4-SS7	1-3-19	3	12S	ST-13160-05	B2440	-29	-5	200	1503	1509	X			1

Relinquished By (Signature):	Date: 1-3-19	Recieved By (Signature): ANO TOM	Date: 1-3-19
Company: Parsons	Time: 1600	Company: JEL	Time: 1600
Relinquished By (Signature):	Date:	Recieved By Laboratory (Signature):	Date:
Company:	Time:	Company:	Time:

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specificied above under the Terms and Conditions set forth

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	**JEL Ref. No.:**	ST-13161
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification (CCV) and Instrument Blanks (MB) were analyzed every 24 hours as prescribed by the method. In addition, a Continuing Calibration Verification Duplicate (CCVD) was analyzed with each batch of Indoor Air samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	**Jones Ref. No.:**	ST-13161
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample ID:	**IAS-2**	**IAS-3 DUP**	**OAS-1**	**IAS-3**	**UT-2**		
Jones ID:	**ST-13161-01**	**ST-13161-02**	**ST-13161-03**	**ST-13161-04**	**ST-13161-05**	**Reporting Limit**	**Units**
Analytes:							
Benzene	**1.97**	**1.84**	**1.85**	**1.95**	**2.04**	0.10	µg/m3
Tetrachloroethene	**0.19**	**0.20**	ND	**0.20**	**0.11**	0.10	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	99%	101%	100%	100%	102%	60 - 140	
	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01		

ND = Value below reporting limit

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	**Jones Ref. No.:**	ST-13161
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample ID:	**UT-1**	**OAS-3**	**OAS-2**	**IAS-1**	**IAS-4**		
Jones ID:	**ST-13161-06**	**ST-13161-07**	**ST-13161-08**	**ST-13161-09**	**ST-13161-10**	**Reporting Limit**	**Units**
Analytes:							
Benzene	**2.20**	**1.56**	**1.59**	**2.33**	**1.34**	0.10	µg/m3
Tetrachloroethene	**0.12**	ND	ND	**0.13**	ND	0.10	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	99%	100%	100%	100%	99%	60 - 140	
	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01	TO1-010419-01		

ND = Value below reporting limit

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	**Jones Ref. No.:**	ST-13161
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample ID:	**METHOD BLANK**		
Jones ID:	**010419-TO1MB1**	**Reporting Limit**	**Units**
Analytes:			
Benzene	ND	0.10	µg/m3
Tetrachloroethene	ND	0.10	µg/m3
Dilution Factor	1		
Surrogate Recovery:		**QC Limits**	
4-Bromofluorobenzene	104%	60 - 140	
	TO1-010419-01		

ND = Value below reporting limit

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/8/2019
Client Address:	100 W. Walnut St. Pasadena, CA 91124	**Jones Ref. No.:**	ST-13161
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Indoor Air

EPA TO-15 – Volatile Organics by GC/MS

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-010419-01

Jones ID: **010419-TO1CCV1** **010419-TO1CCVD1**

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	118%	117%	0.9%	70-130
1,1-Dichloroethylene	115%	109%	5.4%	70-130
Cis-1,2-Dichloroethene	120%	118%	1.7%	70-130
1,1,1-Trichloroethane	105%	106%	0.9%	70-130
Benzene	116%	119%	2.6%	70-130
Trichloroethylene	112%	111%	0.9%	70-130
Toluene	115%	116%	0.9%	70-130
Tetrachloroethene	93%	95%	2.1%	70-130
Chlorobenzene	113%	109%	3.6%	70-130
Ethylbenzene	119%	119%	0.0%	70-130
1,2,4 Trimethylbenzene	109%	111%	1.8%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	101%	100%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Air Chain-of-Custody Record

Client: Parsons
Date: 1-3-19
Project Name: Reseda High School PFA
Client Project #:
Project Address: 18230 Kittridge Street
Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: AMU

Purge Rate: _____ cc/min
Shut In Test: Y / N

Jones Project #: ST-13161
Page: 1 of 1

Turn Around Requested:
- ☐ Immediate Attention
- Rush: ☐ 24hr ☐ 48hr ☐ 72hr ☐ 96hr
- ☒ Normal

Tracer:
- ☐ n-pentane
- ☐ Helium
- ☐ _____

Purge Number:
- ☐ 1 PV
- ☐ 3 PV
- ☐ 7 PV
- ☐ 10 PV

Analysis Requested

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H2O)	Number of Containers
IAS-2	1-3-19			ST-13161-01	01197	-30	-3		0715	1415	X			1
IAS-3 DUP	1-3-19			ST-13161-02	1596	-29	-3		0714	1445	X			1
OAS-1	1-3-19			ST-13161-03	01164	-27	-3		0710	1310	X			1
IAS-3	1-3-19			ST-13161-04	B2676	-30	-4		0714	1448	X			1
UT-2	1-3-19			ST-13161-05	B2471	-30	-3		0706	1430	X			1
UT-1	1-3-19			ST-13161-06	B2658	-30	-2		0705	1455	X			1
OAS-3	1-3-19			ST-13161-07	B2465	-31	-5		0713	1515	X			1
OAS-2	1-3-19			ST-13161-08	B2426	-30	-5		0711	1505	X			1
IAS-1	1-3-19			ST-13161-09	B2473	-30	-3		0717	1510	X			1
IAS-4	1-3-19			ST-13161-10	B2474	-29	-5		0800	1600	X			1

Relinquished By (Signature):	Date: 1-3-19	Recieved By (Signature):	Date: 1-3-19
Company: Parsons	Time: 1600	Company: JEL	Time: 1600
Relinquished By (Signature):	Date:	Recieved By Laboratory (Signature):	Date:
Company	Time:	Company	Time:

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specificied above under the Terms and Conditions set forth

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/15/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project Name:	Reseda High School PEA	**Date Analyzed:**	9/15/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Colby Wakeman
QA/QC Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project: **Project Address:**	Reseda High School PEA 18230 Kittridge Street Reseda, CA	**Date Analyzed:** **Physical State:**	9/15/2018 Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5'**	**AOC4-SV1-15'**	**AOC4-SV1-15' REP**	**AOC4-SV2-5'**	**AOC4-SV2-15'**		
Jones ID:	**D-1525-01**	**D-1525-02**	**D-1525-03**	**D-1525-04**	**D-1525-05**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	**5J**	ND	**5J**	**4J**	ND	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	ND	8	8
sec-Butylbenzene	ND	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV1-5'**	**AOC4-SV1-15'**	**AOC4-SV1-15' REP**	**AOC4-SV2-5'**	**AOC4-SV2-15'**		
Jones ID:	**D-1525-01**	**D-1525-02**	**D-1525-03**	**D-1525-04**	**D-1525-05**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	ND	ND	40	8
n-Propylbenzene	ND	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	**289**	**292**	**302**	**311**	**151**	8	8
Toluene	**4J**	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	ND	16	13
o-Xylene	ND	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	96%	96%	97%	94%	94%	60 - 140	
Toluene-d_8	94%	93%	95%	94%	93%	60 - 140	
4-Bromofluorobenzene	95%	94%	93%	96%	92%	60 - 140	
Batch ID	D-091518-01	D-091518-01	D-091518-01	D-091518-01	D-091518-01		

ND= Value less than reporting limit

J = Value less than reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project: **Project Address:**	Reseda High School PEA 18230 Kittridge Street Reseda, CA	**Date Analyzed:** **Physical State:**	9/15/2018 Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV3-5'**	**AOC4-SV3-15'**	**AOC4-SV6-5'**	**AOC4-SV6-15'**	**AOC4-SV8-5'**		
Jones ID:	**D-1525-06**	**D-1525-07**	**D-1525-08**	**D-1525-09**	**D-1525-10**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	**4J**	**5J**	ND	ND	**5J**	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	**30**	8	8
sec-Butylbenzene	ND	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	**6J**	**6J**	ND	**6J**	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV3-5'**	**AOC4-SV3-15'**	**AOC4-SV6-5'**	**AOC4-SV6-15'**	**AOC4-SV8-5'**		
Jones ID:	**D-1525-06**	**D-1525-07**	**D-1525-08**	**D-1525-09**	**D-1525-10**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	**35**	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	**15J**	**199**	40	8
n-Propylbenzene	ND	ND	ND	ND	**34**	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	**728**	**491**	**196**	**174**	**494**	8	8
Toluene	ND	ND	ND	ND	**29**	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	**8J**	ND	**378**	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	**87**	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	**217**	16	13
o-Xylene	ND	ND	ND	ND	**132**	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	100%	99%	95%	98%	97%	60 - 140	
Toluene-d_8	92%	88%	92%	93%	93%	60 - 140	
4-Bromofluorobenzene	91%	89%	94%	93%	92%	60 - 140	
Batch ID	D-091518-01	D-091518-01	D-091518-01	D-091518-01	D-091518-01		

ND= Value less than reporting limit
J = Value less than reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project: **Project Address:**	Reseda High School PEA 18230 Kittridge Street Reseda, CA	**Date Analyzed:** **Physical State:**	9/15/2018 Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV8-15'**	**AOC4-SS8**	**AOC4-SS9**	**AOC4-SS10**	**AOC4-SS11**		
Jones ID:	**D-1525-11**	**D-1525-12**	**D-1525-13**	**D-1525-14**	**D-1525-15**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
Benzene	**7J**	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	ND	8	6
Bromodichloromethane	ND	**4J**	**5J**	**5J**	**5J**	8	1
Bromoform	ND	ND	ND	ND	ND	8	3
n-Butylbenzene	**243**	ND	ND	ND	ND	8	8
sec-Butylbenzene	**24**	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	**4J**	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	2
1,1-Dichloroethene	**6J**	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV8-15'**	**AOC4-SS8**	**AOC4-SS9**	**AOC4-SS10**	**AOC4-SS11**		
Jones ID:	**D-1525-11**	**D-1525-12**	**D-1525-13**	**D-1525-14**	**D-1525-15**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	2
Ethylbenzene	**410**	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	ND	16	10
Isopropylbenzene	**35**	ND	ND	ND	ND	8	7
4-Isopropyltoluene	**39**	ND	ND	ND	ND	10	10
Methylene chloride	ND	ND	ND	ND	ND	8	7
Naphthalene	**774**	ND	ND	ND	ND	40	8
n-Propylbenzene	**282**	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	5
Tetrachloroethene	**458**	**566**	**438**	**18**	**73**	8	8
Toluene	**507**	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	**2440**	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	**663**	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	ND	8	4
m,p-Xylene	**2030**	ND	ND	ND	ND	16	13
o-Xylene	**1065**	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	10
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	ND	400	
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	99%	97%	99%	96%	94%	60 - 140	
Toluene-d_8	95%	@	91%	92%	94%	60 - 140	
4-Bromofluorobenzene	96%	91%	91%	91%	95%	60 - 140	
Batch ID	D-091518-01	D-091518-01	D-091518-01	D-091518-01	D-091518-01		

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project: **Project Address:**	Reseda High School PEA 18230 Kittridge Street Reseda, CA	**Date Analyzed:** **Physical State:**	9/15/2018 Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SS12**	**AOC4-SV15-5'**	**AOC4-SV15-5' REP**	**AOC4-SV15-15'**		
Jones ID:	**D-1525-16**	**D-1525-17**	**D-1525-18**	**D-1525-19**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:						
Benzene	ND	ND	ND	ND	8	2
Bromobenzene	ND	ND	ND	ND	8	6
Bromodichloromethane	**5J**	**5J**	**5J**	**6J**	8	1
Bromoform	ND	ND	ND	ND	8	3
n-Butylbenzene	ND	ND	ND	ND	8	8
sec-Butylbenzene	ND	ND	ND	ND	8	8
tert-Butylbenzene	ND	ND	ND	ND	8	5
Carbon tetrachloride	ND	ND	ND	ND	8	5
Chlorobenzene	ND	ND	ND	ND	8	5
Chloroform	ND	ND	ND	ND	8	2
2-Chlorotoluene	ND	ND	ND	ND	10	7
4-Chlorotoluene	ND	ND	ND	ND	10	10
Dibromochloromethane	ND	ND	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	8	2
Dibromomethane	ND	ND	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	ND	ND	8	8
1,1-Dichloroethane	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	8	2
1,1-Dichloroethene	**7J**	**5J**	**8J**	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	ND	ND	8	5
1,2-Dichloropropane	ND	ND	ND	ND	8	2
1,3-Dichloropropane	ND	ND	ND	ND	8	2
2,2-Dichloropropane	ND	ND	ND	ND	8	3
1,1-Dichloropropene	ND	ND	ND	ND	10	9

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SS12	AOC4-SV15-5'	AOC4-SV15-5' REP	AOC4-SV15-15'		
Jones ID:	**D-1525-16**	**D-1525-17**	**D-1525-18**	**D-1525-19**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:						
cis-1,3-Dichloropropene	ND	ND	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	ND	ND	8	2
Ethylbenzene	ND	ND	ND	ND	8	6
Freon 113	ND	ND	ND	ND	16	6
Hexachlorobutadiene	ND	ND	ND	ND	16	10
Isopropylbenzene	ND	ND	ND	ND	8	7
4-Isopropyltoluene	ND	ND	ND	**14**	10	10
Methylene chloride	ND	ND	ND	ND	8	7
Naphthalene	ND	ND	ND	ND	40	8
n-Propylbenzene	ND	ND	ND	ND	8	12
Styrene	ND	ND	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	8	5
Tetrachloroethene	**109**	**683**	**676**	**463**	8	8
Toluene	ND	ND	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	ND	ND	8	3
Trichloroethene	ND	ND	ND	ND	8	6
Trichlorofluoromethane	ND	ND	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	ND	ND	8	7
Vinyl chloride	ND	ND	ND	ND	8	4
m,p-Xylene	ND	ND	ND	ND	16	13
o-Xylene	ND	ND	ND	ND	8	5
MTBE	ND	ND	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	ND	ND	40	2
Di-isopropylether	ND	ND	ND	ND	40	2
tert-amylmethylether	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	400	10
Tracer:						
n-Pentane	ND	ND	ND	ND	400	
n-Hexane	ND	ND	ND	ND	400	
n-Heptane	ND	ND	ND	ND	400	
Dilution Factor	1	1	1	1		
Surrogate Recoveries:					**QC Limits**	
Dibromofluoromethane	93%	101%	97%	99%	60 - 140	
Toluene-d_8	96%	91%	94%	94%	60 - 140	
4-Bromofluorobenzene	94%	92%	94%	93%	60 - 140	
Batch ID	D-091518-01	D-091518-01	D-091518-01	D-091518-01		

ND= Value less than reporting limit

J = Value less than reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project: **Project Address:**	Reseda High School PEA 18230 Kittridge Street Reseda, CA	**Date Analyzed:** **Physical State:**	9/15/2018 Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**091518-D1MB1**	**091518-D1SB1**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:				
Benzene	ND	ND	8	2
Bromobenzene	ND	ND	8	6
Bromodichloromethane	ND	ND	8	1
Bromoform	ND	ND	8	3
n-Butylbenzene	ND	ND	8	8
sec-Butylbenzene	ND	ND	8	8
tert-Butylbenzene	ND	ND	8	5
Carbon tetrachloride	ND	ND	8	5
Chlorobenzene	ND	ND	8	5
Chloroform	ND	ND	8	2
2-Chlorotoluene	ND	ND	10	7
4-Chlorotoluene	ND	ND	10	10
Dibromochloromethane	ND	ND	8	2
1,2-Dibromo-3-chloropropane	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	8	2
Dibromomethane	ND	ND	8	3
1,2- Dichlorobenzene	ND	ND	10	5
1,3-Dichlorobenzene	ND	ND	10	10
1,4-Dichlorobenzene	ND	ND	10	10
Dichlorodifluoromethane	ND	ND	8	8
1,1-Dichloroethane	ND	ND	8	4
1,2-Dichloroethane	ND	ND	8	2
1,1-Dichloroethene	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	8	2
trans-1,2-Dichloroethene	ND	ND	8	5
1,2-Dichloropropane	ND	ND	8	2
1,3-Dichloropropane	ND	ND	8	2
2,2-Dichloropropane	ND	ND	8	3
1,1-Dichloropropene	ND	ND	10	9

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**091518-D1MB1**	**091518-D1SB1**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	2
trans-1,3-Dichloropropene	ND	ND	8	2
Ethylbenzene	ND	ND	8	6
Freon 113	ND	ND	16	6
Hexachlorobutadiene	ND	ND	16	10
Isopropylbenzene	ND	ND	8	7
4-Isopropyltoluene	ND	ND	10	10
Methylene chloride	ND	ND	8	7
Naphthalene	ND	ND	40	8
n-Propylbenzene	ND	ND	8	12
Styrene	ND	ND	8	4
1,1,1,2-Tetrachloroethane	ND	ND	8	2
1,1,2,2-Tetrachloroethane	ND	ND	8	5
Tetrachloroethene	ND	ND	8	8
Toluene	ND	ND	8	4
1,2,3-Trichlorobenzene	ND	ND	16	12
1,2,4-Trichlorobenzene	ND	ND	16	13
1,1,1-Trichloroethane	ND	ND	8	3
1,1,2-Trichloroethane	ND	ND	8	3
Trichloroethene	ND	ND	8	6
Trichlorofluoromethane	ND	ND	10	10
1,2,3-Trichloropropane	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	8	7
1,3,5-Trimethylbenzene	ND	ND	8	7
Vinyl chloride	ND	ND	8	4
m,p-Xylene	ND	ND	16	13
o-Xylene	ND	ND	8	5
MTBE	ND	ND	40	5
Ethyl-tert-butylether	ND	ND	40	2
Di-isopropylether	ND	ND	40	2
tert-amylmethylether	ND	ND	40	2
tert-Butylalcohol	ND	ND	400	10
Tracer:				
n-Pentane	ND	ND	400	
n-Hexane	ND	ND	400	
n-Heptane	ND	ND	400	
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	88%	90%	60 - 140	
Toluene-d_8	92%	92%	60 - 140	
4-Bromofluorobenzene	92%	95%	60 - 140	
Batch ID	D-091518-01	D-091518-01		

ND= Value less than reporting limit

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons 100 West Walnut Street Pasadena, CA 91124	**Report date:** **Jones Ref. No.:** **Client Ref. No.:**	9/15/2018 D-1525 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/15/2018 9/15/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/15/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: D-091518-01

Jones ID:	**091518-D1LCS1**	**091518-D1LCSD1**				**091518-D1CCV1**
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	88%	84%	4.5%	60 - 140	114%	80 - 120
1,1-Dichloroethene	93%	92%	1.2%	60 - 140	81%	80 - 120
Cis-1,2-Dichloroethene	112%	105%	6.7%	70 - 130	99%	80 - 120
1,1,1-Trichloroethane	108%	102%	6.1%	70 - 130	95%	80 - 120
Benzene	119%	114%	4.6%	70 - 130	92%	80 - 120
Trichloroethene	109%	102%	6.6%	70 - 130	100%	80 - 120
Toluene	101%	97%	3.2%	70 - 130	92%	80 - 120
Tetrachloroethene	95%	92%	2.9%	70 - 130	94%	80 - 120
Chlorobenzene	103%	101%	1.9%	70 - 130	97%	80 - 120
Ethylbenzene	104%	100%	4.0%	70 - 130	96%	80 - 120
1,2,4 Trimethylbenzene	103%	99%	3.6%	70 - 130	96%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	99%	96%		60 - 140	95%	60 - 140
Toluene-d_8	95%	94%		60 - 140	93%	60 - 140
4-Bromofluorobenzene	101%	98%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA ,CA
Email:
Phone: 310-344-6565
Report To: JUSTIN KING
Sampler: JOEL ALMAS

Date: 9/15/2018
Client Project #: 450810

Purge Number: □ 1P ☒ 3P □ 7P □ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested:
□ Immediate Attention
□ Rush 24 Hours
□ Rush 48 Hours
□ Rush 72 Hours
□ Normal
☒ Mobile Lab

Tracer:
☒ n-pentane
☒ n-hexane
☒ n-heptane
□ Helium
□ 1,1-DFA
□ _____

Reporting Limits Requested: □ Commercial ☒ Residential
Units: µg/m³

LAB USE ONLY
Jones Project #: D-1525

Page 1 of 2

Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B (VOCs)				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV1-5'	3	2810	9/15/18	7:55	7:57	D-1525-01	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV1-15'	3	2980	9/15/18	8:10	8:13	D-1525-02	200	ANNALISE.2	118009	SG	X				<2	1	
AOC4-SV1-15' REP	3	2980	9/15/18	8:32	8:33	D-1525-03	200	ANNALISE.2	118009	SG	X				<2	1	
AOC4-SV2-5'	3	2810	9/15/18	7:22	7:23	D-1525-04	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV2-15'	3	2980	9/15/18	7:36	7:39	D-1525-05	200	ANNALISE.2	118009	SG	X				<2	1	
AOC4-SV3-5'	3	2810	9/15/18	8:45	8:47	D-1525-06	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV3-15'	3	2980	9/15/18	9:01	9:05	D-1525-07	200	ANNALISE.2	118009	SG	X				18	1	
AOC4-SV6-5'	3	2810	9/15/18	10:00	10:02	D-1525-08	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV6-15'	3	2980	9/15/18	10:17	10:17	D-1525-09	200	ANNALISE.2	118009	SG	X				20	1	
AOC4-SV8-5'	3	2810	9/15/18	9:25	9:27	D-1525-10	200	JOSH.1	M100-105	SG	X				<2	1	

Relinquished By (Signature): Pete Sh	Printed Name: Pete Shan	Received By (Signature): Joel A	Printed Name: JOEL ALMAS
Company: Parsons	Date: 9/15/2018 Time: 1340	Company: JONES ENVIRONMENTAL, INC.	Date: 9/15/2018 Time: 13:20
Relinquished By (Signature)	Printed Name	Received By Laboratory (Signature)	Printed Name
Company	Date Time	Company	Date Time

10 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA ,CA
Email:
Phone: 310-344-6565
Report To: JUSTIN KING
Sampler: JOEL ALMAS

Date: 9/15/2018
Client Project #: 450810

Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P
Shut-In Test: (Y) / N

Report Options: EDD ____ EDF* - 10% Surcharge____ *Global ID _____

Turn Around Requested
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☒ Mobile Lab

Tracer
- ☒ n-pentane
- ☒ n-hexane
- ☒ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Reporting Limits Requested: ☐ Commercial ☒ Residential
Units: µg/M3

LAB USE ONLY
Jones Project #: D-1525
Page 2 of 2
Sample Container: GASTIGHT GLASS SYRINGE
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	Analysis Requested: EPA 8260B (VOCs)				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV8-15'	3	2980	9/15/18	9:39	9:41	D-1525-11	200	ANNALISE.2	118009	SG	X				14	1	
AOC4-SS8		100	9/15/18	11:39	11:46	D-1525-12	NA	HAND	118009	SG	X				<2	1	
AOC4-SS9	3	100	9/15/18	11:28	11:29	D-1525-13	NA	HAND	118009	SG	X				<2	1	
AOC4-SS10	3	100	9/15/18	12:30	12:33	D-1525-14	NA	HAND	118009	SG	X				<2	1	
AOC4-SS11	3	100	9/15/18	12:45	12:51	D-1525-15	NA	HAND	118009	SG	X				<2	1	
AOC4-SS12	3	100	9/15/18	12:53	1:07	D-1525-16	NA	HAND	118009	SG	X				<2	1	
AOC4-SV15-5'	3	2810	9/15/18	10:40	10:41	D-1525-17	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV15-5' REP	3	2810	9/15/18	10:55	10:55	D-1525-18	200	JOSH.1	M100-105	SG	X				<2	1	
AOC4-SV15-15'	3	2980	9/15/18	11:10	11:11	D-1525-19	200	ANNALISE.2	118009	SG	X				<2	1	

Relinquished By (Signature)	Printed Name	Received By (Signature)	Printed Name		
Pete Shaw	Pete Shaw	Joel Almas	JOEL ALMAS	9	Total Number of Containers
Company	**Date / Time**	**Company**	**Date / Time**		
Parsons	9-15-18 1340	JONES ENVIRONMENTAL INC.	9/15/2018 13:20		
Relinquished By (Signature)	**Printed Name**	**Received By Laboratory (Signature)**	**Printed Name**		
Company	**Date / Time**	**Company**	**Date / Time**		

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been requested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**JEL Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/19/2018 9/19/2018
Project Name:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates/Gasoline Range Organics

Sampling – Soil Gas samples were collected in glass gas-tight syringes equipped with Teflon plungers.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

The sampling rate was approximately 200 cc/min, except when noted differently on the chain of custody record, using a glass gas-tight syringe. Purging was completed using a pump set at approximately 200 cc/min, except when noted differently on the chain of custody record. A default of 3 purge volumes was used as recommended by July 2015 DTSC/RWQCB guidance documents.

Prior to purging and sampling of soil gas at each point, a shut-in test was conducted to check for leaks in the above ground fittings. The shut-in test was performed on the above ground apparatus by evacuating the line to a vacuum of 100 inches of water, sealing the entire system and watching the vacuum for at least one minute. A vacuum gauge attached in parallel to the apparatus measured the vacuum. If there was any observable loss of vacuum, the fittings were adjusted as needed until the vacuum did not change noticeably. The soil gas sample was then taken.

No flow conditions occur when a sampling rate greater than 10 mL/min cannot be maintained without applying a vacuum greater than 100 inches of water to the sampling train. The sampling train is left at a vacuum for no less than three minutes. If the vacuum does not subside appreciably after three minutes, the sample location is determined to be a no flow sample.

Analytical – Soil Gas samples were analyzed using EPA Method 8260 that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples. A duplicate/replicate sample was analyzed each day of the sampling activity. All samples were injected into the GC/MS system within 30 minutes of sampling.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:**	9/19/2018
		Date Received:	9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV13-5'**	**AOC4-SV13-15'**	**AOC4-SV14-5'**	**AOC4-SV14-15'**	**AOC4-SS4**		
Jones ID:	**E-0915-01**	**E-0915-02**	**E-0915-03**	**E-0915-04**	**E-0915-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SV13-5'	AOC4-SV13-15'	AOC4-SV14-5'	AOC4-SV14-15'	AOC4-SS4		
Jones ID:	**E-0915-01**	**E-0915-02**	**E-0915-03**	**E-0915-04**	**E-0915-05**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**551**	**722**	**947**	**984**	**757**	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	**9**	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
1,2-Dichloroethane-d4	111%	111%	127%	129%	130%	60 - 140	
Toluene-d_8	102%	102%	102%	102%	102%	60 - 140	
4-Bromofluorobenzene	97%	100%	100%	100%	100%	60 - 140	
	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/19/2018 9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SS5**	**AOC4-SS7**	**AOC4-SS3**	**AOC4-SV10-5'**	**AOC4-SV10-15'**		
Jones ID:	**E-0915-06**	**E-0915-07**	**E-0915-08**	**E-0915-09**	**E-0915-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SS5**	**AOC4-SS7**	**AOC4-SS3**	**AOC4-SV10-5'**	**AOC4-SV10-15'**		
Jones ID:	**E-0915-06**	**E-0915-07**	**E-0915-08**	**E-0915-09**	**E-0915-10**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**866**	**1040**	**1300**	**1440**	**1110**	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
1,2-Dichloroethane-d4	131%	130%	131%	130%	130%	60 - 140	
Toluene-d_8	101%	101%	99%	100%	101%	60 - 140	
4-Bromofluorobenzene	103%	102%	97%	98%	97%	60 - 140	
	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/19/2018 9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV10-15' REP**	**AOC4-SS2**	**AOC4-SS1**	**AOC4-SV11-5'**	**AOC4-SV11-15'**		
Jones ID:	**E-0915-11**	**E-0915-12**	**E-0915-13**	**E-0915-14**	**E-0915-15**	**Practical Quantitation Limit**	**Units**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	µg/m3
Bromobenzene	ND	ND	ND	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	ND	ND	ND	8	µg/m3
Bromoform	ND	ND	ND	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Chloroform	ND	ND	ND	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	ND	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	µg/m3
Dibromomethane	ND	ND	ND	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SV10-15' REP	AOC4-SS2	AOC4-SS1	AOC4-SV11-5'	AOC4-SV11-15'		
Jones ID:	**E-0915-11**	**E-0915-12**	**E-0915-13**	**E-0915-14**	**E-0915-15**	**Practical Quantitation Limit**	**Units**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Freon 113	ND	ND	ND	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	ND	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	µg/m3
Methylene chloride	ND	ND	ND	ND	ND	8	µg/m3
Naphthalene	ND	ND	ND	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Styrene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	µg/m3
Tetrachloroethene	**1070**	**1050**	**845**	**1080**	**911**	8	µg/m3
Toluene	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	µg/m3
Trichloroethene	ND	ND	ND	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	ND	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	ND	ND	ND	8	µg/m3
o-Xylene	ND	ND	ND	ND	ND	8	µg/m3
MTBE	ND	ND	ND	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	ND	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	ND	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	ND	ND	ND	400	µg/m3
TIC:							
n-Pentane	ND	ND	ND	ND	ND	400	µg/m3
n-Hexane	ND	ND	ND	ND	ND	400	µg/m3
n-Heptane	ND	ND	ND	ND	ND	400	µg/m3
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
1,2-Dichloroethane-d4	130%	129%	129%	133%	129%	60 - 140	
Toluene-d_8	99%	101%	99%	99%	98%	60 - 140	
4-Bromofluorobenzene	97%	100%	97%	96%	97%	60 - 140	
	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01	E1-091918-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:**	9/19/2018
		Date Received:	9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV9-5'**	**AOC4-SV9-15'**		
Jones ID:	**E-0915-16**	**E-0915-17**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	AOC4-SV9-5'	AOC4-SV9-15'		
Jones ID:	**E-0915-16**	**E-0915-17**	**Practical Quantitation Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	**844**	**680**	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	8	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
TIC:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
1,2-Dichloroethane-d4	130%	129%	60 - 140	
Toluene-d_8	98%	97%	60 - 140	
4-Bromofluorobenzene	96%	95%	60 - 140	
	E1-091918-01	E1-091918-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:**	9/19/2018
		Date Received:	9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**091918-E1MB1**	**091918-E1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
Benzene	ND	ND	8	µg/m3
Bromobenzene	ND	ND	8	µg/m3
Bromodichloromethane	ND	ND	8	µg/m3
Bromoform	ND	ND	8	µg/m3
n-Butylbenzene	ND	ND	8	µg/m3
sec-Butylbenzene	ND	ND	8	µg/m3
tert-Butylbenzene	ND	ND	8	µg/m3
Carbon tetrachloride	ND	ND	8	µg/m3
Chlorobenzene	ND	ND	8	µg/m3
Chloroform	ND	ND	8	µg/m3
2-Chlorotoluene	ND	ND	8	µg/m3
4-Chlorotoluene	ND	ND	8	µg/m3
Dibromochloromethane	ND	ND	8	µg/m3
1,2-Dibromo-3-chloropropane	ND	ND	8	µg/m3
1,2-Dibromoethane (EDB)	ND	ND	8	µg/m3
Dibromomethane	ND	ND	8	µg/m3
1,2- Dichlorobenzene	ND	ND	8	µg/m3
1,3-Dichlorobenzene	ND	ND	8	µg/m3
1,4-Dichlorobenzene	ND	ND	8	µg/m3
Dichlorodifluoromethane	ND	ND	8	µg/m3
1,1-Dichloroethane	ND	ND	8	µg/m3
1,2-Dichloroethane	ND	ND	8	µg/m3
1,1-Dichloroethene	ND	ND	8	µg/m3
cis-1,2-Dichloroethene	ND	ND	8	µg/m3
trans-1,2-Dichloroethene	ND	ND	8	µg/m3
1,2-Dichloropropane	ND	ND	8	µg/m3
1,3-Dichloropropane	ND	ND	8	µg/m3
2,2-Dichloropropane	ND	ND	8	µg/m3
1,1-Dichloropropene	ND	ND	8	µg/m3

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**091918-E1MB1**	**091918-E1SB1**	**Practical Quantitation Limit**	**Units**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	µg/m3
trans-1,3-Dichloropropene	ND	ND	8	µg/m3
Ethylbenzene	ND	ND	8	µg/m3
Freon 113	ND	ND	40	µg/m3
Hexachlorobutadiene	ND	ND	8	µg/m3
Isopropylbenzene	ND	ND	8	µg/m3
4-Isopropyltoluene	ND	ND	8	µg/m3
Methylene chloride	ND	ND	8	µg/m3
Naphthalene	ND	ND	40	µg/m3
n-Propylbenzene	ND	ND	8	µg/m3
Styrene	ND	ND	8	µg/m3
1,1,1,2-Tetrachloroethane	ND	ND	8	µg/m3
1,1,2,2-Tetrachloroethane	ND	ND	8	µg/m3
Tetrachloroethene	ND	ND	8	µg/m3
Toluene	ND	ND	8	µg/m3
1,2,3-Trichlorobenzene	ND	ND	40	µg/m3
1,2,4-Trichlorobenzene	ND	ND	8	µg/m3
1,1,1-Trichloroethane	ND	ND	8	µg/m3
1,1,2-Trichloroethane	ND	ND	8	µg/m3
Trichloroethene	ND	ND	8	µg/m3
Trichlorofluoromethane	ND	ND	8	µg/m3
1,2,3-Trichloropropane	ND	ND	8	µg/m3
1,2,4-Trimethylbenzene	ND	ND	8	µg/m3
1,3,5-Trimethylbenzene	ND	ND	8	µg/m3
Vinyl chloride	ND	ND	8	µg/m3
m,p-Xylene	ND	ND	8	µg/m3
o-Xylene	ND	ND	8	µg/m3
MTBE	ND	ND	40	µg/m3
Ethyl-tert-butylether	ND	ND	40	µg/m3
Di-isopropylether	ND	ND	40	µg/m3
tert-amylmethylether	ND	ND	40	µg/m3
tert-Butylalcohol	ND	ND	400	µg/m3
TIC:				
n-Pentane	ND	ND	400	µg/m3
n-Hexane	ND	ND	400	µg/m3
n-Heptane	ND	ND	400	µg/m3
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
1,2-Dichloroethane-d4	95%	114%	60 - 140	
Toluene-d_8	102%	104%	60 - 140	
4-Bromofluorobenzene	100%	101%	60 - 140	
	E1-091918-01	E1-091918-01		

ND= Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	9/19/2018
Client Address:	100 West Walnut Street Pasadena, CA 91124	**Jones Ref. No.:** **Client Ref. No.:**	E-0915 450810
Attn:	Justin King	**Date Sampled:** **Date Received:**	9/19/2018 9/19/2018
Project:	Reseda High School PEA	**Date Analyzed:**	9/19/2018
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: E1-091918-01

Jones ID:	**091918-E1LCS1**	**091918-E1LCSD1**			**091918-E1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	103%	103%	0.4%	70 - 130	36%	80 - 120
1,1-Dichloroethene	95%	110%	14.2%	70 - 130	83%	80 - 120
Cis-1,2-Dichloroethene	111%	115%	3.6%	70 - 130	117%	80 - 120
1,1,1-Trichloroethane	154%	147%	4.8%	70 - 130	106%	80 - 120
Benzene	104%	110%	6.1%	70 - 130	115%	80 - 120
Trichloroethene	105%	110%	4.1%	70 - 130	114%	80 - 120
Toluene	106%	115%	7.4%	70 - 130	114%	80 - 120
Tetrachloroethene	101%	111%	9.6%	70 - 130	109%	80 - 120
Chlorobenzene	102%	114%	11.3%	70 - 130	116%	80 - 120
Ethylbenzene	95%	106%	10.4%	70 - 130	107%	80 - 120
1,2,4 Trimethylbenzene	95%	106%	11.1%	70 - 130	106%	80 - 120
Surrogate Recovery:						
1,2-Dichloroethane-d4	100%	98%		60 - 140	105%	60 - 140
Toluene-d_8	102%	101%		60 - 140	98%	60 - 140
4-Bromofluorobenzene	101%	98%		60 - 140	103%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA, CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 9/19/2018
Client Project #: 450810

Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P
Shut-In Test: (Y) N

Report Options: EDD ____ EDF* – 10% Surcharge ____ *Global ID ____

LAB USE ONLY
Jones Project #: E-0915

Page 1 of 2

Sample Container: GAS TIGHT GLASS SYRINGE

Turn Around Requested:
☐ Immediate Attention
☐ Rush 24 Hours
☐ Rush 48 Hours
☐ Rush 72 Hours
☐ Normal
☒ Mobile Lab

Tracer: ☒ n-pentane ☒ n-hexane ☒ n-heptane ☐ Helium ☐ 1,1-DFA

Reporting Limits Requested: Commercial ☒ Residential
Units: ug/m3

Analysis Requested: Sample Matrix: Soil Gas (SG), Air (A), Matrix (M); EPA 8260B; Magnehelic Vacuum (in/H2O); Number of Containers

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix	EPA 8260B				Magnehelic Vacuum (in/H2O)	Number of Containers	Notes & Special Instructions
AOC4-SV13-5'	3	2810	9/19/18	7:28	7:34	E-0915-01	200	ANGELA.1	TSS 118008	SG	X				<2	2	
AOC4-SV13-15'	3	2980	9/19/18	7:45	7:51	E-0915-02	200	STEVE.2	TSS 118009	SG	X				<2	2	
AOC4-SV14-5'	3	2810	9/19/18	7:55	8:08	E-0915-03	200	ANGELA.1	TSS 118008	SG	X				6	2	
AOC4-SV14-15'	3	2980	9/19/18	8:13	8:26	E-0915-04	200	STEVE.2	TSS 118009	SG	X				<2	2	
AOC4-SS4	3	125	9/19/18	8:38	8:43	E-0915-05	200	HAND PURGED	M100.105	SG	X				62	2	
AOC4-SS5	3	125	9/19/18	8:50	9:01	E-0915-06	200	HAND PURGED	M100.105	SG	X				<2	2	
AOC4-SS7	3	125	9/19/18	9:07	9:18	E-0915-07	200	HAND PURGED	M100.105	SG	X				<2	2	
AOC4-SS3	3	125	9/19/18	9:23	9:36	E-0915-08	200	HAND PURGED	M100.105	SG	X				<2	2	
AOC4-SV10-5'	3	2810	9/19/18	9:49	9:53	E-0915-09	200	ANGELA.1	TSS 118008	SG	X				<2	2	
AOC4-SV10-15'	3	2980	9/19/18	10:06	10:11	E-0915-10	200	STEVE.2	TSS 118009	SG	X				<2	2	

Relinquished By (Signature): Pete Shair	Printed Name: Pete Shair	Received By (Signature): Annalise O'Toole	Printed Name: Annalise O'Toole
Company: Parsons	Date: 9-19-18 Time: 1245	Company: Jones Environmental	Date: 9-19-18 Time:
Relinquished By (Signature):	Printed Name:	Received By Laboratory (Signature):	Printed Name:
Company:	Date: Time:	Company:	Date: Time:

20 Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain-of-Custody Record

Client: PARSONS
Project Name: RESEDA HIGH SCHOOL PEA
Project Address: 18230 KITTRIDGE STREET
RESEDA, CA
Email:
Phone:
Report To: JUSTIN KING
Sampler: ANNALISE O'TOOLE

Date: 9/19/2018
Client Project #: 450810
Purge Number: ☐ 1P ☑ 3P ☐ 7P ☐ 10P
Shut-In Test: Y / N
Report Options: EDD ____ EDF* - 10% Surcharge ____ *Global ID ____

LAB USE ONLY
Jones Project #: E-0915
Page 2 of 2
Sample Container: GAS TIGHT GLASS SYRINGE
If different than above, see Notes

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☐ Normal
- ☑ Mobile Lab

Tracer:
- ☑ n-pentane
- ☑ n-hexane
- ☑ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Reporting Limits Requested: ☐ Commercial ☒ Residential
Units: ug/m3

Analysis Requested

Sample ID	Purge Number	Purge Volume (mL)	Date	Sample Collection Time	Sample Analysis Time	Laboratory Sample ID	Purge Rate (mL/min)	Pump Used	Magnehelic	Sample Matrix: Soil Gas (SG), Air (A), Material (M)	EPA 8260B				Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV10-15' REP	3	2980	9/19/18	10:22	10:29	E-0915-11	200	STEVE.2	TSS 118009	SG	X				<2	2	
AOC4-SS2	3	125	9/19/18	10:36	10:46	E-0915-12	200	HAND PURGED	M100.105	SG	X				<2	2	
AOC4-SS1	3	125	9/19/18	10:54	11:04	E-0915-13	200	HAND PURGED	M100.105	SG	X				20	2	
AOC4-SV11-5'	3	2810	9/19/18	11:10	11:21	E-0915-14	200	ANGELA 1	TSS 118008	SG	X				<2	2	
AOC4-SV11-15'	3	2980	9/19/18	11:27	11:39	E-0915-15	200	STEVE.2	TSS 118009	SG	X				<2	2	
AOC4-SV9-5'	3	2810	9/19/18	11:50	11:57	E-0915-16	200	ANGELA 1	TSS 118008	SG	X				<2	2	
AOC4-SV9-15'	3	2980	9/19/18	12:06	12:15	E-0915-17	200	STEVE.2	TSS 118009	SG	X				4	2	
AOC4-SS6	-	-	9/19/18	8:40	-	E-0915-18	-	-	-	-	-				>100	-	NO FLOW

Relinquished By (Signature): Pete Shr — Printed Name: Pete Shair
Company: Parsons — Date: 9-19-18 — Time: 1248

Received By (Signature): Annalise O'Toole — Printed Name: Annalise O'Toole
Company: Jones Environmental — Date: 9-19-18 — Time:

Relinquished By (Signature): — Printed Name:
Company: — Date: — Time:

Received By Laboratory (Signature): — Printed Name:
Company: — Date: — Time:

14 — Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/16/2018
Client Address:	100 W. Walnut Street Reseda, CA 91335	**JEL Ref. No.:**	ST-12784
Attn:	Justin King	**Date Sampled:**	10/9/2018
		Date Received:	10/9/2018
Project:	Reseda High School	**Date Analyzed:**	10/15/2018
Project Address:	18230 Kittridge Street Reseda High School	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA TO-15 – Volatile Organics by GC/MS

Analytical – Indoor Air samples were analyzed using EPA Method TO-15. Instrument Continuing Calibration Verification, QC Reference Standards, and Instrument Blanks were analyzed every 24 hours as prescribed by the method. In addition, a Matrix Spike (MS) and Matrix Spike Duplicate (MSD) were analyzed with each batch of Indoor Air samples.

Approval:

Colby Wakeman
QA/QC Manager

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611
805-399-0060

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/16/2018
Client Address:	100 W. Walnut Street Reseda, CA 91335	**Jones Ref. No.:**	ST-12784
Attn:	Justin King	**Date Sampled:**	10/9/2018
		Date Received:	10/9/2018
Project:	Reseda High School	**Date Analyzed:**	10/15/2018
Project Address:	18230 Kittridge Street Reseda High School	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	AOC4-SV17-5	AOC4-SV17-15	AOC4-SV16-5	AOC4-SV16-15	AOC4-SV16-15DUP		
Jones ID:	ST-12784-01	ST-12784-02	ST-12784-03	ST-12784-04	ST-12784-05	Reporting Limit (µg/m3)	MDL (µg/m3)
Analytes:							
Acetone	**5.8 J**	**3.7 J**	**9.3 J**	**6.3 J**	**21.3**	10.0	0.8
Acrolein	ND	**1.5**	ND	ND	**1.7**	1.0	0.5
Benzene	**0.4 J**	**0.4 J**	**0.4 J**	**0.4 J**	**0.5 J**	1.0	0.2
Benzyl chloride	ND	ND	ND	ND	ND	1.0	0.2
Bromodichloromethane	**1.8**	**1.5**	**2.3**	**2.3**	**2.2**	1.0	0.2
Bromoform	ND	ND	ND	ND	ND	1.0	0.1
Bromomethane	ND	ND	ND	ND	ND	1.0	1.0
1,3-Butadiene	ND	ND	ND	ND	ND	1.0	0.2
2-Butanone (MEK)	**3.1**	**2.9**	**5.9**	**5.8**	**4.0**	1.0	0.3
Carbon disulfide	ND	ND	**1.9**	**1.0**	**1.4**	1.0	0.4
Carbon tetrachloride	ND	ND	ND	ND	ND	1.0	0.2
Chlorobenzene	ND	ND	ND	ND	ND	1.0	0.1
Chloroform	**1.3**	**1.2**	**1.8**	**2.8**	**2.6**	1.0	0.2
Cyclohexane	**1.8**	**1.1**	**0.8 J**	**0.9 J**	**1.0**	1.0	0.2
Dibromochloromethane	**1.6**	ND	**2.0**	**2.1**	**2.3**	1.0	0.2
1,2-Dibromoethane	ND	ND	ND	ND	ND	1.0	0.2
1,2-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	0.3
1,3-Dichlorobenzene	ND	**1.5**	ND	**1.4**	ND	1.0	0.3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	1.0	0.3
1,1-Dichloroethane	ND	ND	ND	ND	ND	1.0	0.3
1,2-Dichloroethane	ND	ND	ND	ND	ND	1.0	0.2
1,1-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.5
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.5
Trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	1.0	0.2
1,2-Dichloropropane	ND	ND	ND	ND	ND	1.0	1.0
Cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	1.0
Trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	1.0	1.0
1,4-Dioxane	ND	ND	ND	ND	ND	1.0	1.0
Ethanol	**18.6**	**13.0**	**16.9**	**14.9**	**14.1**	10.0	1.1

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	AOC4-SV17-5	AOC4-SV17-15	AOC4-SV16-5	AOC4-SV16-15	AOC4-SV16-15DUP		
Jones ID:	ST-12784-01	ST-12784-02	ST-12784-03	ST-12784-04	ST-12784-05	Reporting Limit (µg/m3)	MDL (µg/m3)
Analytes:							
Ethyl acetate	ND	ND	ND	ND	ND	1.0	0.4
Ethylbenzene	**1.0**	**1.0**	ND	**1.0**	**1.0**	1.0	0.1
4-Ethyltoluene	ND	ND	ND	ND	ND	1.0	0.1
4-Isopropyltoluene	ND	ND	ND	**3.1**	**2.8**	1.0	0.3
Freon 11	**1.5**	**2.2**	**2.9**	**2.0**	**1.8**	1.0	0.2
Freon 12	**2.1**	**2.1**	**2.2**	**2.0**	**2.0**	1.0	0.1
Freon 113	**1.2**	**1.2**	**1.2**	**0.9 J**	**1.2**	1.0	0.4
Freon 114	ND	ND	ND	ND	**0.7 J**	1.0	0.2
Hexachloro-1,3-butadiene	ND	ND	ND	ND	ND	1.0	0.2
2-Hexanone (MBK)	ND	ND	**1.7**	ND	**1.6**	1.0	0.2
Isopropyl Alcohol	ND	ND	**1.5**	ND	ND	10.0	0.6
Isopropylbenzene	ND	ND	ND	ND	ND	1.0	0.1
4-Methyl-2-pentanone (MIBK)	**1.0**	ND	**1.4**	**1.6**	**1.0**	1.0	0.2
Methylene chloride	**0.6 J**	**0.5 J**	**0.6 J**	**0.6 J**	**1.5**	1.0	0.3
MTBE	ND	ND	ND	ND	ND	1.0	0.2
Methylmethacrylate	ND	ND	ND	ND	ND	1.0	0.3
Naphthalene	**3.4**	**4.0**	**3.0**	**3.8**	**3.7**	1.0	0.2
Propylene	ND	ND	ND	ND	ND	1.0	0.4
Styrene	ND	ND	ND	ND	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	1.0	0.1
Tetrachloroethene	**1.7**	**3.1**	**2.8**	**9.7**	**8.7**	1.0	0.2
Tetrahydrofuran	**1.7**	ND	**1.2**	ND	**1.0**	1.0	0.2
Toluene	ND	ND	ND	**1.1**	**1.3**	1.0	0.1
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	1.0	1.0
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	1.0	0.2
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	1.0	0.2
Trichloroethene	ND	ND	ND	ND	ND	1.0	0.3
1,2,4-Trimethylbenzene	**1.9**	**1.9**	**1.8**	ND	**3.0**	1.0	0.2
1,3,5-Trimethylbenzene	ND	ND	ND	**1.7**	ND	1.0	0.3
Vinyl Acetate	ND	ND	ND	ND	ND	1.0	0.3
Vinyl chloride	ND	ND	ND	ND	ND	1.0	0.2
o-Xylene	**1.7**	**1.7**	ND	**1.6**	**1.6**	1.0	0.1
m/p-Xylene	**2.6**	**2.1**	ND	**2.2**	**2.2**	2.0	0.2
Tracer:							
n-pentane	ND	ND	ND	ND	ND	10.0	
n-hexane	ND	ND	ND	ND	**22.1**	10.0	
n-heptane	ND	**33.3**	**31.4**	ND	**15.4**	10.0	
Dilution Factor	1	1	1	1	1		
Surrogate Recovery:						**QC Limits**	
4-Bromofluorobenzene	98%	99%	99%	98%	98%	60 - 140	
	TO1-101618-IA-CHECKS	TO1-101618-IA-CHECKS	TO1-101618-IA-CHECKS	TO1-101618-IA-CHECKS	TO1-101618-IA-CHECKS		

ND = Value below reporting limit
J = Value below reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	10/16/2018
Client Address:	100 W. Walnut Street Reseda, CA 91335	**Jones Ref. No.:**	ST-12784
Attn:	Justin King	**Date Sampled:**	10/9/2018
		Date Received:	10/9/2018
Project:	Reseda High School	**Date Analyzed:**	10/15/2018
Project Address:	18230 Kittridge Street Reseda High School	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	**METHOD BLANK**		
Jones ID:	**HBLK1-101518-01**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:			
Acetone	ND	10.0	0.8
Acrolein	ND	1.0	0.5
Benzene	ND	1.0	0.2
Benzyl chloride	ND	1.0	0.2
Bromodichloromethane	ND	1.0	0.2
Bromoform	ND	1.0	0.1
Bromomethane	ND	1.0	1.0
1,3-Butadiene	ND	1.0	0.2
2-Butanone (MEK)	ND	1.0	0.3
Carbon disulfide	ND	1.0	0.4
Carbon tetrachloride	ND	1.0	0.2
Chlorobenzene	ND	1.0	0.1
Chloroform	ND	1.0	0.2
Cyclohexane	ND	1.0	0.2
Dibromochloromethane	ND	1.0	0.2
1,2-Dibromoethane	ND	1.0	0.2
1,2-Dichlorobenzene	ND	1.0	0.3
1,3-Dichlorobenzene	ND	1.0	0.3
1,4-Dichlorobenzene	ND	1.0	0.3
1,1-Dichloroethane	ND	1.0	0.3
1,2-Dichloroethane	ND	1.0	0.2
1,1-Dichloroethene	ND	1.0	0.5
Cis-1,2-Dichloroethene	ND	1.0	0.5
Trans-1,2-Dichloroethene	ND	1.0	0.2
1,2-Dichloropropane	ND	1.0	0.2
Cis-1,3-Dichloropropene	ND	1.0	0.2
Trans-1,3-Dichloropropene	ND	1.0	0.2
1,4-Dioxane	ND	1.0	0.2
Ethanol	ND	10.0	1.1

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA TO-15-Volatile Organics by GC/MS in Air/ Summa Canister

Sample ID:	**METHOD BLANK**		
Jones ID:	**HBLK1-101518-01**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:			
Ethyl acetate	ND	1.0	0.4
Ethyl benzene	ND	1.0	0.1
4-Ethyltoluene	ND	1.0	0.1
4-Isopropyltoluene	ND	1.0	0.3
Freon 11	ND	1.0	0.2
Freon 12	ND	1.0	0.1
Freon 113	ND	1.0	0.4
Freon 114	ND	1.0	0.2
Hexachloro-1,3-butadiene	ND	1.0	0.2
2-Hexanone (MBK)	ND	1.0	0.2
Isopropyl Alcohol	ND	10.0	0.6
Isopropylbenzene	ND	1.0	0.1
4-Methyl-2-pentanone (MIBK)	ND	1.0	0.2
Methylene chloride	ND	1.0	0.3
MTBE	ND	1.0	0.2
Methylmethacrylate	ND	1.0	0.3
Naphthalene	ND	1.0	0.2
Propylene	ND	1.0	0.4
Styrene	ND	1.0	0.2
1,1,2,2-Tetrachloroethane	ND	1.0	0.1
Tetrachloroethene	ND	1.0	0.2
Tetrahydrofuran	ND	1.0	0.2
Toluene	ND	1.0	0.1
1,2,4-Trichlorobenzene	ND	1.0	0.2
1,1,1-Trichloroethane	ND	1.0	0.2
1,1,2-Trichloroethane	ND	1.0	0.2
Trichloroethene	ND	1.0	0.3
1,2,4-Trimethylbenzene	ND	1.0	0.2
1,3,5-Trimethylbenzene	ND	1.0	0.3
Vinyl Acetate	ND	1.0	0.3
Vinyl chloride	ND	1.0	0.2
o-Xylene	ND	1.0	0.1
p/m-Xylene	ND	2.0	0.2
Tracer:			
n-pentane	ND	10.0	
n-hexane	ND	10.0	
n-heptane	ND	10.0	
Dilution Factor	1		
Surrogate Recovery:		**QC Limits**	
4-Bromofluorobenzene	99%	60 - 140	
	TO1-101618-IA-CHECKS		

ND = Value below reporting limit

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL
QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	10/16/2018
Client Address:	100 W. Walnut Street Reseda, CA 91335	**Jones Ref. No.:**	ST-12784
Attn:	Justin King	**Date Sampled:**	10/9/2018
		Date Received:	10/9/2018
Project:	Reseda High School	**Date Analyzed:**	10/15/2018
Project Address:	18230 Kittridge Street Reseda High School	**Physical State:**	Soil Gas

EPA TO-15 – Volatile Organics by GC/MS in Air/ Summa Canister

Sample Spiked: HUMIDIFIED NITROGEN **GC#:** TO1-101518-IA-CHECKS

Jones ID:

Parameter	CCV Recovery (%)	CCVD Recovery (%)	RPD	Acceptability Range (%)
Vinyl Chloride	79%	79%	0.0%	70-130
1,1-Dichloroethylene	86%	86%	0.0%	70-130
Cis-1,2-Dichloroethene	91%	79%	14.1%	70-130
1,1,1-Trichloroethane	102%	99%	2.4%	70-130
Benzene	101%	103%	2.4%	70-130
Trichloroethylene	94%	100%	5.8%	70-130
Toluene	102%	102%	0.0%	70-130
Tetrachloroethene	114%	114%	0.0%	70-130
Chlorobenzene	110%	112%	2.2%	70-130
Ethylbenzene	105%	105%	0.0%	70-130
1,2,4 Trimethylbenzene	106%	104%	2.3%	70-130
Surrogate Recovery:				
4-Bromofluorobenzene	100%	99%		60 - 140

MS = Matrix Spike
MSD = Matrix Spike Duplicate
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 15%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Soil-Gas Chain of Custody Record

Client: Parsons
Project Name: Reseda High School
Project Address: 18230 Kittridge St
Reseda CA 91335
Email:
Phone:
Report To:
Sampler: Colby

Date: Oct 9 2018
Client Project #:

Purge Number: ☐ 1P ☒ 3P ☐ 7P ☐ 10P
Shut-In Test: (Y) N
Flow Rate: 200
If different than above, see Notes.

Turn Around Requested:
- ☐ Immediate Attention
- ☐ Rush 24 Hours
- ☐ Rush 48 Hours
- ☐ Rush 72 Hours
- ☒ Normal
- ☐ Mobile Lab

Tracer:
- ☑ n-pentane
- ☑ n-hexane
- ☑ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☐ _____

Reporting Limits Requested: ☐ Commercial ☐ Residential

Units:

Report Options
EDD ____
EDF* - 10% Surcharge____
*Global ID _____

LAB USE ONLY
Jones Project # ST-12784
Page 1 of 1
Sample Condition as Recieved: Sealed ☐ yes ☐ no
Sample Container:
If different than above, see Notes.

Sample ID	Purge Number	Purge Volume (mL)	Date	Pump Used	Magnehelic	Laboratory Sample ID	Canister ID	Canister Start Pressure	Canister End Pressure	Sampling Start Time	Sampling End Time	Analysis Requested: Sample Matrix: Soil Gas (SG), Air (A)	Analysis Requested: EPA 8260B	Analysis Requested: EPA TO-15	Analysis Requested: Magnehelic Vacuum (In/H_2O)	Number of Containers	Notes & Special Instructions
AOC4-SV17-5	3	2810	10/9	J1		ST-12784-01	1582	-29	-5	14:55	15:01			X	5	1	
AOC4-SV17-15	3	2980	10/9	E3		ST-12784-02	1503	-29	-4	14:57	15:02			X	5	1	
AOC4-SV16-5	3	2810	10/9	E3		ST-12784-03	B2451	-30	-5	15:27	15:33			X	5	1	
AOC4-SV16-15	3	2980	10/9	J1		ST-12784-04	1513B	-30	-5	15:25	15:31			X	5	1	
AOC4-SV16-15DUP	3	2980	10/9	J1		ST-12784-05	1498	-29	-5	15:25	15:31			X	5	1	

Relinquished By (Signature): [signature] Printed Name: Justin King
Company: Parsons Date: 10/9/18 Time: 1515
Relinquished By (Signature): Printed Name:
Company: Date: Time:

Received By (Signature): [signature] Printed Name: Colby Hakeman
Company: Jones Environmental Date: 10-9-18 Time:
Received By Laboratory (Signature): Printed Name:
Company: Date: Time:

Total Number of Containers

Client signature on this Chain of Custody form constitutes acknowledgement that the above analyses have been reqested, and the information provided herein is correct and accurate.

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL

LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**JEL Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project Name:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

ANALYSES REQUESTED

1. EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sampling – Soil Gas samples were collected in 1 Liter SUMMA Canisters.

A tracer gas mixture of n-pentane, n-hexane, and n-heptane was placed at the tubing-surface interface before sampling. These compounds were analyzed during the 8260B analytical run to determine if there were surface leaks into the subsurface due to improper installation of the probe. No n-pentane, n-hexane, or n-heptane was found in any of the samples reported herein.

Analytical – Soil Gas samples were analyzed using EPA Method 8260B that includes extra compounds required by DTSC/RWQCB (such as Freon 113). Instrument Continuing Calibration Verification, QC Reference Standards, Instrument Blanks and Sampling Blanks were analyzed every 12 hours as prescribed by the method. In addition, a Laboratory Control Sample (LCS) and Laboratory Control Sample Duplicate (LCSD) were analyzed with each batch of Soil Gas samples.

Approval:

Angela Haar, Ph. D.
Mobile Lab Manager

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV16-5'**	**AOC4-SV16-15'**	**AOC4-SV16-15' DUP**	**AOC4-SV17-5'**	**AOC-SV17-15'**		
Jones ID:	**ST-13162-01**	**ST-13162-02**	**ST-13162-03**	**ST-13162-04**	**ST-13162-05**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	4
Bromobenzene	ND	ND	ND	ND	ND	8	5
Bromodichloromethane	ND	ND	ND	ND	ND	8	6
Bromoform	ND	ND	ND	ND	ND	8	5
n-Butylbenzene	ND	ND	ND	ND	ND	8	3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	2
tert-Butylbenzene	ND	ND	ND	ND	ND	8	3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	4
Chlorobenzene	ND	ND	ND	ND	ND	8	3
Chloroform	ND	ND	ND	ND	ND	8	5
2-Chlorotoluene	ND	ND	ND	ND	ND	8	4
4-Chlorotoluene	ND	ND	ND	ND	ND	8	4
Dibromochloromethane	ND	ND	ND	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	4
Dibromomethane	ND	ND	ND	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
Dichlorodifluoromethane	**4J**	**4J**	**4J**	**4J**	**4J**	8	3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	7
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	4
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV16-5'**	**AOC4-SV16-15'**	**AOC4-SV16-15' DUP**	**AOC4-SV17-5'**	**AOC-SV17-15'**		
Jones ID:	**ST-13162-01**	**ST-13162-02**	**ST-13162-03**	**ST-13162-04**	**ST-13162-05**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
Ethylbenzene	ND	ND	ND	ND	ND	8	3
Freon 113	ND	ND	ND	ND	ND	40	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	5
Isopropylbenzene	ND	ND	ND	ND	ND	8	3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	3
Methylene chloride	ND	ND	ND	ND	ND	8	5
Naphthalene	ND	ND	ND	ND	ND	40	2
n-Propylbenzene	ND	ND	ND	ND	ND	8	3
Styrene	ND	ND	ND	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	6
Tetrachloroethene	**9**	**15**	**13**	**5J**	ND	8	4
Toluene	ND	ND	ND	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	4
Trichloroethene	ND	ND	ND	ND	ND	8	4
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	4
Vinyl chloride	ND	ND	ND	ND	ND	8	2
m,p-Xylene	ND	ND	ND	ND	ND	16	6
o-Xylene	ND	ND	ND	ND	ND	8	3
MTBE	ND	ND	ND	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	3
Di-isopropylether	ND	ND	ND	ND	ND	40	4
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	41
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	40	
n-Hexane	ND	ND	ND	ND	ND	40	
n-Heptane	ND	ND	ND	ND	ND	40	
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	98%	95%	91%	101%	96%	60 - 140	
Toluene-d_8	94%	90%	87%	96%	91%	60 - 140	
4-Bromofluorobenzene	92%	91%	86%	96%	92%	60 - 140	
	F1-010418-01	F1-010418-01	F1-010418-01	F1-010418-01	F1-010418-01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV12-5'**	**AOC4-SV12-15'**	**AOC4-SV5-5'**	**AOC4-SV5-15'**	**AOC4-SV10-5'**		
Jones ID:	**ST-13162-06**	**ST-13162-07**	**ST-13162-08**	**ST-13162-09**	**ST-13162-10**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
Benzene	ND	ND	ND	ND	ND	8	4
Bromobenzene	ND	ND	ND	ND	ND	8	5
Bromodichloromethane	ND	ND	ND	ND	ND	8	6
Bromoform	ND	ND	ND	ND	ND	8	5
n-Butylbenzene	ND	ND	ND	ND	ND	8	3
sec-Butylbenzene	ND	ND	ND	ND	ND	8	2
tert-Butylbenzene	ND	ND	ND	ND	ND	8	3
Carbon tetrachloride	ND	ND	ND	ND	ND	8	4
Chlorobenzene	ND	ND	ND	ND	ND	8	3
Chloroform	ND	ND	ND	ND	ND	8	5
2-Chlorotoluene	ND	ND	ND	ND	ND	8	4
4-Chlorotoluene	ND	ND	ND	ND	ND	8	4
Dibromochloromethane	ND	ND	ND	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	ND	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	ND	8	4
Dibromomethane	ND	ND	ND	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	ND	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	ND	ND	ND	8	3
Dichlorodifluoromethane	**6J**	**4J**	**6J**	**5J**	**5J**	8	3
1,1-Dichloroethane	ND	ND	ND	ND	ND	8	4
1,2-Dichloroethane	ND	ND	ND	ND	ND	8	7
1,1-Dichloroethene	ND	ND	ND	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	ND	ND	ND	8	4
1,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,3-Dichloropropane	ND	ND	ND	ND	ND	8	3
2,2-Dichloropropane	ND	ND	ND	ND	ND	8	4
1,1-Dichloropropene	ND	ND	ND	ND	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV12-5'**	**AOC4-SV12-15'**	**AOC4-SV5-5'**	**AOC4-SV5-15'**	**AOC4-SV10-5'**		
Jones ID:	**ST-13162-06**	**ST-13162-07**	**ST-13162-08**	**ST-13162-09**	**ST-13162-10**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:							
cis-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	ND	ND	ND	8	3
Ethylbenzene	ND	ND	ND	ND	ND	8	3
Freon 113	ND	ND	ND	ND	ND	40	5
Hexachlorobutadiene	ND	ND	ND	ND	ND	8	5
Isopropylbenzene	ND	ND	ND	ND	ND	8	3
4-Isopropyltoluene	ND	ND	ND	ND	ND	8	3
Methylene chloride	ND	ND	ND	ND	ND	8	5
Naphthalene	ND	ND	ND	ND	ND	40	2
n-Propylbenzene	ND	ND	ND	ND	ND	8	3
Styrene	ND	ND	ND	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	ND	8	6
Tetrachloroethene	**36**	**167**	**15**	**11**	**481**	8	4
Toluene	ND	ND	ND	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	ND	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	ND	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	ND	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	ND	ND	ND	8	4
Trichloroethene	ND	ND	ND	ND	ND	8	4
Trichlorofluoromethane	ND	ND	ND	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	ND	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	ND	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	ND	ND	ND	8	4
Vinyl chloride	ND	ND	ND	ND	ND	8	2
m,p-Xylene	ND	ND	ND	ND	ND	16	6
o-Xylene	ND	ND	ND	ND	ND	8	3
MTBE	ND	ND	ND	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	ND	ND	ND	40	3
Di-isopropylether	ND	ND	ND	ND	ND	40	4
tert-amylmethylether	ND	ND	ND	ND	ND	40	2
tert-Butylalcohol	ND	ND	ND	ND	ND	400	41
Tracer:							
n-Pentane	ND	ND	ND	ND	ND	40	
n-Hexane	ND	ND	ND	ND	ND	40	
n-Heptane	ND	ND	ND	ND	ND	40	
Dilution Factor	1	1	1	1	1		
Surrogate Recoveries:						**QC Limits**	
Dibromofluoromethane	91%	97%	84%	84%	89%	60 - 140	
Toluene-d_8	87%	92%	80%	79%	84%	60 - 140	
4-Bromofluorobenzene	86%	91%	80%	76%	82%	60 - 140	
	F1-010418-01	F1-010418-01	F1-010418-01	F1-010418-01	F1-010418-01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL LABORATORY RESULTS

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	2201 Dupont Dr. #200 Irvine, CA 92612	**Jones Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV10-15'**		
Jones ID:	**ST-13162-11**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:			
Benzene	ND	8	4
Bromobenzene	ND	8	5
Bromodichloromethane	ND	8	6
Bromoform	ND	8	5
n-Butylbenzene	ND	8	3
sec-Butylbenzene	ND	8	2
tert-Butylbenzene	ND	8	3
Carbon tetrachloride	ND	8	4
Chlorobenzene	ND	8	3
Chloroform	ND	8	5
2-Chlorotoluene	ND	8	4
4-Chlorotoluene	ND	8	4
Dibromochloromethane	ND	8	3
1,2-Dibromo-3-chloropropane	ND	8	8
1,2-Dibromoethane (EDB)	ND	8	4
Dibromomethane	ND	8	6
1,2- Dichlorobenzene	ND	8	4
1,3-Dichlorobenzene	ND	8	3
1,4-Dichlorobenzene	ND	8	3
Dichlorodifluoromethane	**4J**	8	3
1,1-Dichloroethane	ND	8	4
1,2-Dichloroethane	ND	8	7
1,1-Dichloroethene	ND	8	4
cis-1,2-Dichloroethene	ND	8	5
trans-1,2-Dichloroethene	ND	8	4
1,2-Dichloropropane	ND	8	4
1,3-Dichloropropane	ND	8	3
2,2-Dichloropropane	ND	8	4
1,1-Dichloropropene	ND	8	8

JONES ENVIRONMENTAL LABORATORY RESULTS

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**AOC4-SV10-15'**		
Jones ID:	**ST-13162-11**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:			
cis-1,3-Dichloropropene	ND	8	3
trans-1,3-Dichloropropene	ND	8	3
Ethylbenzene	ND	8	3
Freon 113	ND	40	5
Hexachlorobutadiene	ND	8	5
Isopropylbenzene	ND	8	3
4-Isopropyltoluene	ND	8	3
Methylene chloride	ND	8	5
Naphthalene	ND	40	2
n-Propylbenzene	ND	8	3
Styrene	ND	8	3
1,1,1,2-Tetrachloroethane	ND	8	4
1,1,2,2-Tetrachloroethane	ND	8	6
Tetrachloroethene	**414**	8	4
Toluene	ND	8	3
1,2,3-Trichlorobenzene	ND	40	4
1,2,4-Trichlorobenzene	ND	8	3
1,1,1-Trichloroethane	ND	8	5
1,1,2-Trichloroethane	ND	8	4
Trichloroethene	ND	8	4
Trichlorofluoromethane	ND	8	5
1,2,3-Trichloropropane	ND	8	4
1,2,4-Trimethylbenzene	ND	8	3
1,3,5-Trimethylbenzene	ND	8	4
Vinyl chloride	ND	8	2
m,p-Xylene	ND	16	6
o-Xylene	ND	8	3
MTBE	ND	40	4
Ethyl-tert-butylether	ND	40	3
Di-isopropylether	ND	40	4
tert-amylmethylether	ND	40	2
tert-Butylalcohol	ND	400	41
Tracer:			
n-Pentane	ND	40	
n-Hexane	ND	40	
n-Heptane	ND	40	
Dilution Factor	1		
Surrogate Recoveries:		**QC Limits**	
Dibromofluoromethane	103%	60 - 140	
Toluene-d_8	98%	60 - 140	
4-Bromofluorobenzene	97%	60 - 140	
	F1-010418-01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	**METHOD BLANK**	**SAMPLING BLANK**		
Jones ID:	**010418-F1MB1**	**010418-F1SB1**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:				
Benzene	ND	ND	8	4
Bromobenzene	ND	ND	8	5
Bromodichloromethane	ND	ND	8	6
Bromoform	ND	ND	8	5
n-Butylbenzene	ND	ND	8	3
sec-Butylbenzene	ND	ND	8	2
tert-Butylbenzene	ND	ND	8	3
Carbon tetrachloride	ND	ND	8	4
Chlorobenzene	ND	ND	8	3
Chloroform	ND	ND	8	5
2-Chlorotoluene	ND	ND	8	4
4-Chlorotoluene	ND	ND	8	4
Dibromochloromethane	ND	ND	8	3
1,2-Dibromo-3-chloropropane	ND	ND	8	8
1,2-Dibromoethane (EDB)	ND	ND	8	4
Dibromomethane	ND	ND	8	6
1,2- Dichlorobenzene	ND	ND	8	4
1,3-Dichlorobenzene	ND	ND	8	3
1,4-Dichlorobenzene	ND	ND	8	3
Dichlorodifluoromethane	ND	ND	8	3
1,1-Dichloroethane	ND	ND	8	4
1,2-Dichloroethane	ND	ND	8	7
1,1-Dichloroethene	ND	ND	8	4
cis-1,2-Dichloroethene	ND	ND	8	5
trans-1,2-Dichloroethene	ND	ND	8	4
1,2-Dichloropropane	ND	ND	8	4
1,3-Dichloropropane	ND	ND	8	3
2,2-Dichloropropane	ND	ND	8	4
1,1-Dichloropropene	ND	ND	8	8

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Sample ID:	METHOD BLANK	SAMPLING BLANK		
Jones ID:	**010418-F1MB1**	**010418-F1SB1**	**Reporting Limit (µg/m3)**	**MDL (µg/m3)**
Analytes:				
cis-1,3-Dichloropropene	ND	ND	8	3
trans-1,3-Dichloropropene	ND	ND	8	3
Ethylbenzene	ND	ND	8	3
Freon 113	ND	ND	40	5
Hexachlorobutadiene	ND	ND	8	5
Isopropylbenzene	ND	ND	8	3
4-Isopropyltoluene	ND	ND	8	3
Methylene chloride	ND	ND	8	5
Naphthalene	ND	ND	40	2
n-Propylbenzene	ND	ND	8	3
Styrene	ND	ND	8	3
1,1,1,2-Tetrachloroethane	ND	ND	8	4
1,1,2,2-Tetrachloroethane	ND	ND	8	6
Tetrachloroethene	ND	ND	8	4
Toluene	ND	ND	8	3
1,2,3-Trichlorobenzene	ND	ND	40	4
1,2,4-Trichlorobenzene	ND	ND	8	3
1,1,1-Trichloroethane	ND	ND	8	5
1,1,2-Trichloroethane	ND	ND	8	4
Trichloroethene	ND	ND	8	4
Trichlorofluoromethane	ND	ND	8	5
1,2,3-Trichloropropane	ND	ND	8	4
1,2,4-Trimethylbenzene	ND	ND	8	3
1,3,5-Trimethylbenzene	ND	ND	8	4
Vinyl chloride	ND	ND	8	2
m,p-Xylene	ND	ND	16	6
o-Xylene	ND	ND	8	3
MTBE	ND	ND	40	4
Ethyl-tert-butylether	ND	ND	40	3
Di-isopropylether	ND	ND	40	4
tert-amylmethylether	ND	ND	40	2
tert-Butylalcohol	ND	ND	400	41
TIC:				
n-Pentane	ND	ND	40	
n-Hexane	ND	ND	40	
n-Heptane	ND	ND	40	
Dilution Factor	1	1		
Surrogate Recoveries:			**QC Limits**	
Dibromofluoromethane	96%	86%	60 - 140	
Toluene-d_8	93%	78%	60 - 140	
4-Bromofluorobenzene	91%	79%	60 - 140	
	F1-010418-01	F1-010418-01		

ND= Value less than reporting limit

J = Value below reporting limit but above MDL

JONES ENVIRONMENTAL, INC.
714-449-9937
562-646-1611
805-399-0060
11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

JONES ENVIRONMENTAL QUALITY CONTROL INFORMATION

Client:	Parsons	**Report date:**	1/7/2019
Client Address:	100 W. Walnut Street Pasadena, CA 91124	**Jones Ref. No.:**	ST-13162
Attn:	Justin King	**Date Sampled:**	1/3/2019
		Date Received:	1/3/2019
Project:	Reseda High School PEA	**Date Analyzed:**	1/4/2019
Project Address:	18230 Kittridge Street Reseda, CA	**Physical State:**	Soil Gas

EPA 8260B – Volatile Organics by GC/MS + Oxygenates

Batch ID: F1-010418-01

Jones ID:	**010418-F1LCS1**	**010418-F1LCSD1**			**010418-F1CCV1**	
Parameter	LCS Recovery (%)	LCSD Recovery (%)	RPD	Acceptability Range (%)	CCV	Acceptability Range (%)
Vinyl chloride	115%	114%	0.7%	60 - 140	106%	80 - 120
1,1-Dichloroethene	104%	104%	0.1%	60 - 140	103%	80 - 120
Cis-1,2-Dichloroethene	106%	105%	0.9%	70 - 130	104%	80 - 120
1,1,1-Trichloroethane	107%	105%	1.6%	70 - 130	104%	80 - 120
Benzene	116%	115%	0.8%	70 - 130	113%	80 - 120
Trichloroethene	116%	116%	0.1%	70 - 130	114%	80 - 120
Toluene	120%	118%	1.5%	70 - 130	116%	80 - 120
Tetrachloroethene	119%	117%	1.2%	70 - 130	114%	80 - 120
Chlorobenzene	117%	115%	2.0%	70 - 130	115%	80 - 120
Ethylbenzene	110%	110%	0.8%	70 - 130	109%	80 - 120
1,2,4 Trimethylbenzene	107%	105%	2.5%	70 - 130	107%	80 - 120
Surrogate Recovery:						
Dibromofluoromethane	104%	103%		60 - 140	99%	60 - 140
Toluene-d_8	98%	97%		60 - 140	94%	60 - 140
4-Bromofluorobenzene	105%	106%		60 - 140	99%	60 - 140

LCS = Laboratory Control Sample
LCSD = Laboratory Control Sample Duplicate
CCV = Continuing Calibration Verification
RPD = Relative Percent Difference; Acceptability range for RPD is ≤ 20%

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Air Chain-of-Custody Record

Client: Parsons
Project Name: Reseda High School PEA
Project Address: 18230 Kittridge Street, Reseda, CA
Email:
Phone:
Report To: Justin King
Sampler: AMO

Date: 01-03-19
Client Project #:
Purge Rate: _____ cc/min
Shut In Test: Y / N

Jones Project #: ST-13162
Page: 1 of 2

Turn Around Requested:
- ☐ Immediate Attention
- Rush: ☐ 24hr ☐ 48hr ☐ 72hr ☐ 96hr
- ☒ Normal

Tracer:
- ☐ n-pentane
- ☐ Helium
- ☐ _____

Purge Number:
- ☐ 1 PV
- ☐ 3 PV
- ☐ 7 PV
- ☐ 10 PV

Analysis Requested

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H_2O)	Number of Containers
AOC4-SV16-5'	1-3-19	3	2810	ST-13162-01	B2458	-30	-4	200	0741	0750		X		1
AOC4-SV16-15'	1-3-19	3	2980	ST-13162-02	B2443	-30	-5	200	0741	0748		X		1
AOC4 SV16-15' DUP	1-3-19	3	2980	ST-13162-03	B2453	-30	-5	200	0741	0748		X		1
AOC4-SV17-5'	1-3-19	3	2810	ST-13162-04	01179	-30	-5	~~0754~~ 200	~~0807~~ 0759	0807		X		1
AOC4-SV17-15'	1-3-19	3	2980	ST-13162-05	B2442	-32	-5	200	0800	0807		X		1
AOC4-SV12-5'	1-3-19	3	1630	ST-13162-06	1498	-25	-5	200	0813	0821		X		1
AOC4-SV12-15'	1-3-19	3	1790	ST-13162-07	151313	-30	-5	200	0815	0822		X		1
AOC4-SV5-5'	1-3-19	3	1630	ST-13162-08	B2423	-30	-5	200	0825	0832		X		1
AOC4-SV5-15'	1-3-19	3	1790	ST-13162-09	B2420	-28	-5	200	0820	0832		X		1
AOC4-SV10-5'	1-3-19	3	1630	ST-13162-10	B2430	-30	-5	200	1532	1539		X		1

Relinquished By (Signature):	Date: 1-3-19	Recieved By (Signature):	Date: 1-3-19
Company: Parsons	Time: 1600	Company: JEL	Time: 1600
Relinquished By (Signature):	Date:	Recieved By Laboratory (Signature):	Date:
Company:	Time:	Company:	Time:

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specificied above under the Terms and Conditions set forth

JONES ENVIRONMENTAL, INC.

11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Air Chain-of-Custody Record

Client: Parsons

Project Name: Reseda High School PEA

Project Address: 18230 Kittridge Street

Reseda, CA

Email:

Phone:

Report To: Justin King

Sampler: AMO

Date: 1-3-19

Client Project #:

Purge Rate: _____ cc/min

Shut In Test: Y / N

Jones Project #: SJ-13162

Page: 2 of 2

Turn Around Requested:

- ☐ Immediate Attention
- Rush:
  - ☐ 24hr ☐ 48hr
  - ☐ 72hr ☐ 96hr
- ☒ Normal

Tracer:

- ☐ n-pentane
- ☐ Helium
- ☐ _____

Purge Number:

- ☐ 1 PV
- ☐ 3 PV
- ☐ 7 PV
- ☐ 10 PV

Analysis Requested

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Canister Start Vacuum	Canister End Vacuum	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	TO-15	8260B	Magnehelic Reading (in/H_2O)	Number of Containers
VOC4-SV10-15'	1-3-19	3	1790	SJ-13162-11	1635	-28	-4	200	1533	1538		X		1

Relinquished By (Signature):	Date:	Recieved By (Signature):	Date:
Company: Parsons	Time: 1600	Company: JEL	Time: 1600
Relinquished By (Signature):	Date:	Recieved By Laboratory (Signature):	Date:
Company:	Time:	Company:	Time:

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specificied above under the Terms and Conditions set forth

APPENDIX J

Noise Background and Modeling Data

Reseda High School
Noise Monitoring Locations
Legend
Noise Monitoring Location
Project Site
#1
#2
#3
#4
Lemay St
Darby Ave
Chimineas Ave
Etiwanda Ave
Lindley Ave
Hesperia Ave
W Victory Blvd
Friar St
Darby Pl
Nestle Ave
Wynne Ave
Sylvan St
Google Earth
© 2018 Google
N
1000 ft

Summary

File Name on Meter	LxT_Data.028
File Name on PC	SLM_0005667_LxT_Data_028.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences
Location	Reseda High School
Job Description	Noise Monitoring
Note	Map Location #1 Heavy vehicle traffic; no pedestrian traffic

Measurement

Description	
Start	2019-04-25 10:23:26
Stop	2019-04-25 10:38:26
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:17:08
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	C	Z	
Under Range Peak	100.7	97.7	**102.7**	dB
Under Range Limit	**49.7**	47.7	55.7	dB
Noise Floor	36.6	37.2	44.8	dB

Results

L_{Aeq}	72.6 dB	
LAE	102.1 dB	
EA	1.805 mPa^2h	
EA8	57.751 mPa^2h	
EA40	288.756 mPa^2h	
$LZ_{peak\ (max)}$	2019-04-25 10:34:01	106.1 dB
LAS_{max}	2019-04-25 10:38:15	82.5 dB
LAS_{min}	2019-04-25 10:35:57	48.3 dB
SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LC_{eq}	77.0 dB	
LA_{eq}	72.6 dB	
$LCeq - LAeq$	4.4 dB	
LAI_{eq}	74.2 dB	
LA_{eq}	72.6 dB	
$LAI_{eq} - LA_{eq}$	1.7 dB	

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	72.6		77.0			
$L_{S(max)}$	82.5	2019/04/25 10:38:15				
$L_{S(min)}$	48.3	2019/04/25 10:35:57				
$L_{Peak(max)}$					106.1	2019/04/25 10:34:01

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.01 %
Projected Dose	-99.9	0.20 %
TWA (Projected)	-99.9	45.2 dB
TWA (t)	-99.9	20.2 dB
Lep (t)	57.5	57.5 dB

Statistics

LAS5.00	77.7 dB
LAS10.00	76.6 dB
LAS33.30	73.3 dB
LAS50.00	69.8 dB
LAS66.60	65.7 dB
LAS90.00	55.8 dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2019-04-25 10:16:43	-50.8	63.1	61.3	51.2
PRMLxT1	2019-01-12 12:02:16	-50.7	36.0	38.9	46.6
PRMLxT1	2018-11-01 09:59:25	-50.5	60.6	57.6	44.5
PRMLxT1	2018-11-01 09:58:54	-50.5	71.0	70.8	55.4
PRMLxT1	2018-07-12 08:32:20	-49.8	41.3	59.9	52.6
PRMLxT1	2018-07-11 12:06:07	-49.9	26.3	38.3	46.3
PRMLxT1	2018-07-11 11:29:38	-49.0	16.7	13.9	19.6

Summary

File Name on Meter	LxT_Data.029
File Name on PC	SLM_0005667_LxT_Data_029.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences
Location	Reseda High School
Job Description	Noise Monitoring
Note	Map location #2 Heavy vehicle traffic; light pedestrian traffic

Measurement

Description	
Start	2019-04-25 10:45:35
Stop	2019-04-25 11:00:35
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	C	Z
Under Range Peak	100.7	97.7	**102.7** dB
Under Range Limit	**49.7**	47.7	55.7 dB
Noise Floor	36.6	37.2	44.8 dB

Results

LAeq	70.0 dB	
LAE	99.6 dB	
EA	1.011 mPa²h	
EA8	32.357 mPa²h	
EA40	161.783 mPa²h	
LZpeak (max)	2019-04-25 10:50:31	119.9 dB
LASmax	2019-04-25 10:50:32	89.8 dB
LASmin	2019-04-25 10:54:00	46.9 dB
SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	1	3.2 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZpeak > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LCeq	75.0 dB	
LAeq	70.0 dB	
LCeq - LAeq	4.9 dB	
LAleq	75.7 dB	
LAeq	70.0 dB	
LAleq - LAeq	5.7 dB	

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
Leq	70.0		75.0			
LS(max)	89.8	2019/04/25 10:50:32				
LS(min)	46.9	2019/04/25 10:54:00				
LPeak(max)					119.9	2019/04/25 10:50:31

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	0.01 %
Projected Dose	-99.9	0.39 %
TWA (Projected)	-99.9	49.9 dB
TWA (t)	-99.9	24.9 dB
Lep (t)	55.0	55.0 dB

Statistics

LAS5.00	73.6 dB
LAS10.00	72.6 dB
LAS33.30	69.3 dB
LAS50.00	67.4 dB
LAS66.60	64.5 dB
LAS90.00	56.4 dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2019-04-25 10:16:43	-50.8	63.1	61.3	51.2
PRMLxT1	2019-01-12 12:02:16	-50.7	36.0	38.9	46.6
PRMLxT1	2018-11-01 09:59:25	-50.5	60.6	57.6	44.5
PRMLxT1	2018-11-01 09:58:54	-50.5	71.0	70.8	55.4
PRMLxT1	2018-07-12 08:32:20	-49.8	41.3	59.9	52.6
PRMLxT1	2018-07-11 12:06:07	-49.9	26.3	38.3	46.3
PRMLxT1	2018-07-11 11:29:38	-49.0	16.7	13.9	19.6

Summary

File Name on Meter	LxT_Data.030
File Name on PC	SLM_0005667_LxT_Data_030.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences
Location	Reseda High School
Job Description	Noise Monitoring
Note	Map location #3
	Light vehicle traffic; Light pedestrian traffic; 2 dogs barking for approximately 10 seconds at 50 feet

Measurement

Description	
Start	2019-04-25 11:21:01
Stop	2019-04-25 11:36:01
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	**C**	**Z**	
Under Range Peak	100.7	97.7	**102.7**	dB
Under Range Limit	**49.7**	47.7	55.7	dB
Noise Floor	36.6	37.2	44.8	dB

Results

LA_{eq}	58.6 dB	
LAE	88.1 dB	
EA	72.085 µPa²h	
EA8	2.307 mPa²h	
EA40	11.534 mPa²h	
$LZ_{peak\ (max)}$	2019-04-25 11:34:52	106.0 dB
LAS_{max}	2019-04-25 11:25:34	73.2 dB
LAS_{min}	2019-04-25 11:28:55	47.5 dB
SEA	-99.9 dB	
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LC_{eq}	71.7 dB	
LA_{eq}	58.6 dB	
$LCeq - LAeq$	13.1 dB	
LAI_{eq}	61.3 dB	
LA_{eq}	58.6 dB	
$LAI_{eq} - LA_{eq}$	2.7 dB	

	A		**C**		**Z**	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	58.6		71.7			
$L_{S(max)}$	73.2	2019/04/25 11:25:34				
$L_{S(min)}$	47.5	2019/04/25 11:28:55				
$L_{Peak(max)}$					106.0	2019/04/25 11:34:52

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	43.5	43.5 dB

Statistics

LAS5.00	64.4 dB
LAS10.00	62.0 dB
LAS33.30	56.3 dB
LAS50.00	55.0 dB
LAS66.60	53.9 dB
LAS90.00	50.9 dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2019-04-25 10:16:43	-50.8	63.1	61.3	51.2
PRMLxT1	2019-01-12 12:02:16	-50.7	36.0	38.9	46.6
PRMLxT1	2018-11-01 09:59:25	-50.5	60.6	57.6	44.5
PRMLxT1	2018-11-01 09:58:54	-50.5	71.0	70.8	55.4
PRMLxT1	2018-07-12 08:32:20	-49.8	41.3	59.9	52.6
PRMLxT1	2018-07-11 12:06:07	-49.9	26.3	38.3	46.3
PRMLxT1	2018-07-11 11:29:38	-49.0	16.7	13.9	19.6

Summary

File Name on Meter	LxT_Data.031
File Name on PC	SLM_0005667_LxT_Data_031.00.ldbin
Serial Number	0005667
Model	SoundTrack LxT®
Firmware Version	2.302
User	Impact Sciences
Location	Reseda High School
Job Description	Noise Monitoring
Note	Map location #4
	Birds; light vehicle traffic; light pedestrian traffic; HVAC at classroom

Measurement

Description	
Start	2019-04-25 11:41:53
Stop	2019-04-25 11:56:53
Duration	00:15:00.0
Run Time	00:15:00.0
Pause	00:00:00.0
Pre Calibration	2019-04-25 10:16:43
Post Calibration	None
Calibration Deviation	---

Overall Settings

RMS Weight	A Weighting
Peak Weight	Z Weighting
Detector	Slow
Preamp	PRMLxT1
Microphone Correction	Off
Integration Method	Linear
OBA Range	Normal
OBA Bandwidth	1/1 and 1/3
OBA Freq. Weighting	A Weighting
OBA Max Spectrum	Bin Max
Overload	144.4 dB

	A	C	Z	
Under Range Peak	100.7	97.7	**102.7**	dB
Under Range Limit	**49.7**	47.7	55.7	dB
Noise Floor	36.6	37.2	44.8	dB

Results

L_{Aeq}	54.8	dB
LAE	84.3	dB
EA	29.956	µPa²h
EA8	958.582	µPa²h
EA40	4.793	mPa²h
$LZ_{peak\ (max)}$	2019-04-25 11:52:28	94.7 dB
LAS_{max}	2019-04-25 11:52:24	63.0 dB
LAS_{min}	2019-04-25 11:56:46	48.9 dB
SEA	-99.9	dB
LAS > 85.0 dB (Exceedance Counts / Duration)	0	0.0 s
LAS > 115.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 135.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 137.0 dB (Exceedance Counts / Duration)	0	0.0 s
LZ_{peak} > 140.0 dB (Exceedance Counts / Duration)	0	0.0 s
LC_{eq}	69.4	dB
LA_{eq}	54.8	dB
LC_{eq} - LA_{eq}	14.6	dB
LAI_{eq}	57.2	dB
LA_{eq}	54.8	dB
LAI_{eq} - LA_{eq}	2.4	dB

	A		C		Z	
	dB	**Time Stamp**	**dB**	**Time Stamp**	**dB**	**Time Stamp**
L_{eq}	54.8		69.4			
$L_{S(max)}$	63.0	2019/04/25 11:52:24				
$L_{S(min)}$	48.9	2019/04/25 11:56:46				
$L_{Peak(max)}$					94.7	2019/04/25 11:52:28

# Overloads	0
Overload Duration	0.0 s
# OBA Overloads	0
OBA Overload Duration	0.0 s

Dose Settings

Dose Name	OSHA-1	OSHA-2
Exchange Rate	5	5 dB
Threshold	90	80 dB
Criterion Level	90	90 dB
Criterion Duration	8	8 h

Results

Dose	-99.9	-99.9 %
Projected Dose	-99.9	-99.9 %
TWA (Projected)	-99.9	-99.9 dB
TWA (t)	-99.9	-99.9 dB
Lep (t)	39.7	39.7 dB

Statistics

LAS5.00	58.1 dB
LAS10.00	57.3 dB
LAS33.30	55.2 dB
LAS50.00	54.1 dB
LAS66.60	52.9 dB
LAS90.00	50.6 dB

Calibration History

Preamp	**Date**	**dB re. 1V/Pa**	**6.3**	**8.0**	**10.0**
PRMLxT1	2019-04-25 10:16:43	-50.8	63.1	61.3	51.2
PRMLxT1	2019-01-12 12:02:16	-50.7	36.0	38.9	46.6
PRMLxT1	2018-11-01 09:59:25	-50.5	60.6	57.6	44.5
PRMLxT1	2018-11-01 09:58:54	-50.5	71.0	70.8	55.4
PRMLxT1	2018-07-12 08:32:20	-49.8	41.3	59.9	52.6
PRMLxT1	2018-07-11 12:06:07	-49.9	26.3	38.3	46.3
PRMLxT1	2018-07-11 11:29:38	-49.0	16.7	13.9	19.6

Reseda High School - Construction Noise - Unmitigated

Reference Noise Distance 50
Reference Noise Level 90

Sensitive Receptor	Distance (feet)	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Islamic Center of Reseda	500	6	64.0	72.6	73.2	0.6
Residences to the East	380	6	66.4	70.0	71.6	1.6
Residences to the North	160	6	73.9	58.6	74.0	15.4
Reseda Park	100	6	78.0	54.8	78.0	23.2
The Magic Years Nursury School	2100	9	48.5	70.0	70.0	0.0
Sherman Oaks Center for Enriched Studies	2150	9	48.3	72.6	72.6	0.0
Newcastle Elementary School	940	9	55.5	58.6	60.3	1.7
Carousel Child Development	1300	9	52.7	70.0	70.1	0.1
Universal Church	1200	9	53.4	58.6	59.7	1.1

A 6 dBA attenuation was given for hard ground surfuce, and 3 dBA reduction was given for the first row of buildings intervening between the construction site and sensitive receptors (1.5 dBA for subsequent intervening structures), as recommended by the Caltrans Technical Noise Supplement.

Reseda High School - Construction Noise - Mitigated

Reference Noise Distance 50

Reference Noise Level 90

Sensitive Receptor	Distance (feet)	Mitigation Factors	Attenuation Factors	Maximum Construction Noise Level (dBA)	Existing Ambient (dBA, Leq)	New Ambient (dBA, Leq)	Increase
Islamic Center of Reseda	500	3	6	61.0	72.6	72.9	0.3
Residences to the East	380	3	6	63.4	70.0	70.9	0.9
Residences to the North	160	15	6	58.9	58.6	61.8	3.2
Reseda Park	100	20	6	58.0	54.8	59.7	4.9
The Magic Years Nursury School	2100	3	9	45.5	70.0	70.0	0.0
Sherman Oaks Center for Enriched Studies	2150	3	9	45.3	72.6	72.6	0.0
Newcastle Elementary School	940	3	9	52.5	58.6	59.6	1.0
Carousel Child Development	1300	3	9	49.7	70.0	70.0	0.0
Universal Church	1200	3	9	50.4	58.6	59.2	0.6
0	0	10	0	80.0	0.0	80.0	80.0

A 3 dBA reduction was given for mufflers.

A 6 dBA attenuation was given for hard ground surfuce, and 3 dBA reduction was given for the first row of buildings intervening between the construction site and sensitive receptors (1.5 dBA for subsequent intervening structures), as recommended by the Caltrans Technical Noise

Reseda High School Construction Vibration — Reseda Park

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 100 Distance from equipment to sensitive receptor
Equip= 0.011

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 100 Distance from equipment to sensitive receptor
Equip= 69

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Residences to north of Site

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 160 Distance from equipment to sensitive receptor
Equip= 0.005

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 160 Distance from equipment to sensitive receptor
Equip= 63

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Residences to east of Site

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 380 Distance from equipment to sensitive receptor
Equip= 0.002

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 380 Distance from equipment to sensitive receptor
Equip= 52

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Islamic Center

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 500 Distance from equipment to sensitive receptor
Equip= 0.001

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 500 Distance from equipment to sensitive receptor
Equip= 48

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Newcastle Elementary

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 940 Distance from equipment to sensitive receptor
Equip= 0.000

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 940 Distance from equipment to sensitive receptor
Equip= 40

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Universal Church

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 1200 Distance from equipment to sensitive receptor
Equip= 0.000

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 1200 Distance from equipment to sensitive receptor
Equip= 37

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Carousel Child Development

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 1300 Distance from equipment to sensitive receptor
Equip= 0.000

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 1300 Distance from equipment to sensitive receptor
Equip= 36

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Magic Years Nursery School

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 2100 Distance from equipment to sensitive receptor
Equip= 0.000

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 2100 Distance from equipment to sensitive receptor
Equip= 29

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

Reseda High School Construction Vibration — Sherman Oaks Center for Enriched Studies

Ref= Reference vibration level (PPV)
RefD= Reference distance for Reference vibration level (Feet)

Vibration PPV
Ref= 0.089 Based on type of equipment
RefD= 25
D= 2150 Distance from equipment to sensitive receptor
Equip= 0.000

Annoyance VdB
Ref= 87 Based on type of equipment
RefD= 25
D= 2150 Distance from equipment to sensitive receptor
Equip= 29

Peak vibration based on large bulldozer.
Source: FTA Tranist Noise and Vibration Impact Assessment Manual, 2018.

APPENDIX K

Site Circulation Report

Site Circulation Report

LAUSD SCHOOL MODERNIZATION PROJECT - RESEDA CHARTER HIGH SCHOOL

LIN Consulting, Inc.

Traffic, Civil, and Electrical Consulting Engineers

Prepared by:
LIN Consulting, Inc.

For:
ESA
Los Angeles Unified School District

October 17, 2018

TABLE OF CONTENTS

1.0 Introduction 1
1.1 School and Neighborhood Description 1
2.0 Transportion Network 2
2.1 Streets and Intersections 2
2.2 Transit 4
2.3 Bicycle and Pedestrian Facilities 5
2.4 Parks and Other Recreational Facilities 5
2.5 Congestion Locations 5
3.0 School Operations 7
3.1 Parking 7
3.2 Circulation 8
3.3 Crash History 9
4.0 Deficiencies and Opportunities 9
4.1 Walk Audit Observations 9
4.2 Observed Circulation Deficiencies 11
4.3 Positive Attributes 12
4.4 Opportunities 12

APPENDICES

APPENDIX A: FIELD REVIEW SHEETS
APPENDIX B: WALK AUDIT SHEETS
APPENDIX C: SELECTED PHOTOS
APPENDIX D: ADDITIONAL INFORMATION

1.0 INTRODUCTION

The purpose of this report is to document existing conditions at Reseda Charter High School (Reseda HS), located at 18230 Kittridge Street in the Los Angeles Unified School District's (LAUSD's) Local District Northwest in the San Fernando Valley community of Reseda, in the City of Los Angeles. This report summarizes existing conditions, including circulation operations, for use in the facilities planning and design process for the Reseda HS Comprehensive Modernization Project.

Observations include conditions and operations at adjacent intersections and roadway segments, internal parking lots, and identified or reported issues. Other existing conditions recorded are general vehicular travel (including pick-up/drop-off operations), school bus, parking, transit, pedestrian, and bicycle activity. To aid this process, a safety audit (with an emphasis on walking) was performed. The audit encompasses positive and negative site circulation attributes observed during field visits from a professional civil engineering perspective. Walkability, accessibility, visibility, and safety of pedestrians and bicyclists around the perimeter of the school are some of the major site circulation elements that were evaluated in the audit. A follow-up interview regarding access, egress, and circulation at the campus was conducted with Reseda HS administration, including Principal Melanie Welsh, on June 6, 2018.

This report concludes with observed vehicle and pedestrian circulation issues both on and off-site and offers potential opportunities for improvements to site access and/or onsite circulation that can be explored further in the facilities planning process for the Reseda HS Comprehensive Modernization Project, as well as other future projects. ***Appendix A*** includes notes from the field review conducted on May 24, 2018, and ***Appendix B*** includes notes from the walk audits conducted on the same date. Selected photos depicting conditions described in this report are included in ***Appendix C***. ***Appendix D*** provides additional information on circulation, such as traffic counts on record.

1.1 School and Neighborhood Description

Reseda HS is an Affiliated Charter school that operates as part of the LAUSD. The Reseda HS campus is located in the San Fernando Valley community of Reseda, within the City of Los Angeles. Reseda HS first opened its doors to students in 1955. Reseda HS, through open enrollment and magnet programs, attracts many students from outside the geographical service

area. Per the school's 2017-2018 Single Plan for Student Achievement (SPSA),[1] Reseda HS serves a total of 1,540 students from grades 9 to 12, and enrollment has decreased since 2004 when 2,900 students were enrolled. 108 faculty and staff work at Reseda HS. A regular school day has a morning bell at 8:00 am and afternoon bell at 3:06 pm.

School administration indicated that Reseda HS has a very large special education program for students, including those students requiring physical support assistance, with 55 faculty and staff dedicated solely to these students. Most of the special education classes are held on the south side of the service road in portable classrooms.

Within and adjacent to the Reseda HS campus, two other small schools operate:

MAGNOLIA SCIENCE ACADEMY 5

Magnolia Science Academy 5 is a non-profit private charter school that is not affiliated with LAUSD and leases property for 6th through 10th grade classrooms within the Reseda HS campus. According to the school's website, the school served 210 students in the 2017-2018 academic school year. Magnolia Science Academy 5 has similar drop-off and pick-up locations, and approximately the same start and end times as Reseda HS.

ZANE GREY CONTINUATION HIGH SCHOOL

Zane Grey Continuation High School is an Educational Options school[2] that currently serves grades 9 through 12. It is located immediately west of the south baseball field. According to the 2017-2018 SPSA, their student enrollment varies from 100 to 300 students depending on the district's needs. Zane Grey Continuation High School has similar drop-off and pick-up locations, and approximately the same start and end times as Reseda HS, which causes congestion.

2.0 TRANSPORTION NETWORK

2.1 Streets and Intersections

The Reseda HS main campus is generally bounded by Victory Boulevard to the south, Lindley Avenue to the east, Kittridge Street to the north, and Etiwanda Avenue to the west. The main campus gates are located on Kittridge Street between Nestle Avenue and Wynne Avenue, with the main faculty and administration parking lot accessible from Kittridge Street and two other smaller faculty and administration parking lots accessible from Etiwanda Avenue. The student

[1] *Los Angeles Unified School District. Single Plan for Student Achievement (California: Los Angeles, 2017-2018), 9-10.*
[2] https://achieve.lausd.net/domain/159.

parking lot is accessible via two gated entrances on Lindley Avenue and a gated entrance on Victory Boulevard. Roadway characteristics, including roadway classification identified in the City of Los Angeles *Mobility Plan 2035*,[3] for study area roadways are provided below.

STUDY AREA ROADWAYS

Victory Boulevard is an east-west roadway classified as a Boulevard II with three travel lanes in each direction. The posted speed limit is 45 mph within the school zone, which is defined as a roadway segment adjacent to or surrounding school grounds, and 25 mph when children are present in accordance with Section 22352 of the California Vehicle Code. Speed feedback signs are provided for both eastbound and westbound traffic. No stopping or parking is permitted any time on both sides of the street.

Lindley Avenue is a north-south roadway classified as an Avenue II with two travel lanes in each direction. The posted speed limit is 35 mph within the school zone, and 25 mph when children are present in accordance with Section 22352 of the California Vehicle Code. There is no parking on Mondays between 8:00 am to 11:00 am for street sweeping on the east side of the street and between 7:00 am to 5:00 pm during school days, with the exception of school buses, on the west side of the street.

Kittridge Street is an east-west roadway classified as a Collector street with one travel lane in each direction. The posted speed limit is 30 mph within the school zone, and 25 mph when children are present in accordance with Section 22352 of the California Vehicle Code. There is no parking on Mondays between 8:00 am to 11:00 am for street cleaning on the north side of the street and between 7:00 am to 5:00 pm during school days on the south side of the street.

Etiwanda Avenue is a north-south roadway classified as a Local street with one travel lane in each direction. Etiwanda Avenue dead-ends in a cul-de-sac south of Kittridge Street at the Los Angeles River. There is no posted speed limit, but a school sign is posted approximately 200 feet north of Kittridge Street in accordance with Section 22352 of the California Vehicle Code. There is no parking between 4:00 am and 6:30 am Monday through Friday on both sides of the street. There is no parking (red curb) at the end of the cul-de-sac.

STUDY AREA INTERSECTIONS

Lindley Avenue and Victory Boulevard is a signalized intersection operating under semi-actuated signal phasing with Victory Boulevard as the coordinated street. The intersection has

[3] *Los Angeles Department of City Planning. Mobility Plan 2035 (California: Los Angeles, 2016)*

permissive left turns for all approaches. Pedestrian phase recall occurs along both streets, with all approaches having marked crosswalks.

Lindley Avenue and Kittridge Street is a signalized intersection operating under semi-actuated signal phasing with Lindley Avenue as the coordinated street. The intersection has permissive left turns for all approaches. Pedestrian phase recall occurs along Kittridge Street, with all approaches having crosswalks, including a high-visibility crosswalk (i.e., ladder striping) on the north leg.

Chimineas Avenue and Kittridge Street is an unsignalized intersection with stop control on Chimineas Avenue.

Wynne Avenue and Kittridge Street is an unsignalized intersection with stop control on all movements.

Nestle Avenue and Kittridge Street is an unsignalized intersection with stop control on Nestle Avenue.

Etiwanda Avenue and Kittridge Street is an unsignalized intersection with stop control on all movements. All approaches have marked crosswalks.

Specific characteristics of each intersection, including lane configurations, can be found in ***Appendix A***.

2.2 Transit

Metro is the only transit operator that provides public transit access to Reseda HS. Bus transit stops and services (operators and routes) provided adjacent to Reseda HS are as follows:

- Victory Boulevard
    - Northwest corner of Lindley Avenue and Victory Boulevard
        - Metro 164 (westbound)
    - Southwest corner of Lindley Avenue and Victory Boulevard
        - Metro 164 (eastbound)

Metro Local Route 164 operates seven days a week between Burbank and West Hills via Victory Boulevard.

School administration noted that very few students, faculty, and staff use Metro buses.

2.3 Bicycle and Pedestrian Facilities

There are no exclusive bicycle lanes located within the school zone, with bicyclists sharing the sidewalk with pedestrians, or the roadway with vehicles.

Sidewalks exist on both sides of Victory Boulevard, Lindley Avenue, Kittridge Street, and Etiwanda Avenue within the school zone. The concrete sidewalks on the east side of Lindley Avenue and north side of Kittridge Street are separated from vehicular traffic by a landscaped buffer, with regular gaps provided for tree planters. Per the City of Los Angeles, Mobility Plan 2035, Kittridge Street, Lindley Avenue, and Etiwanda Avenue are designated as part of the Neighborhood Enhanced Network.

A pedestrian bridge crossing the Los Angeles River at the south end of Etiwanda Avenue provides access between Reseda Park and the Reseda HS campus. However, school administration noted that students avoid using this bridge due to personal safety concerns. In addition, the administration stated that there has been recurring criminal activity at the adjacent park (Reseda Park).

Bicycle racks and skateboard racks are provided near the main entrance gate of the campus; during the field visit, the bicycle racks had an approximately 75% utilization rate while the skateboard racks had less than a 25% utilization rate. School administration stated that between 30 and 40 bicycles are parked on a daily basis at the racks in front of the school, and about 50 skateboards are either locked at the racks or checked in at the front desk every day.

2.4 Parks and Other Recreational Facilities

Reseda Park is located directly west of Reseda HS and extends across the Los Angeles River near the southwest corner of the Reseda HS campus. It is accessible by a pedestrian bridge across the Los Angeles River.

The Sepulveda Basin Recreation Area is 0.5 miles walking east of the Reseda HS campus.

2.5 Congestion Locations

During the morning drop-off period, queues were observed for all approaches at the intersection of Etiwanda Avenue and Kittridge Street. Queues of approximately 125 feet to 175 feet were observed for the northbound, eastbound, and westbound approaches, and a queue up to approximately 375 feet was observed for the southbound approach, primarily due to students crossing along the intersection. Queues were also observed at the intersection of Lindley

Avenue and Kittridge Street. A queue of approximately 150 feet was observed for both the northbound and southbound left turn movements from Lindley Avenue to Kittridge Street due to the left turn permissive phasing. On eastbound Kittridge Street, a queue of approximately 175 feet was observed for through and right turn movements and a queue of approximately 150 feet was observed for the left turn movement onto Lindley Avenue due to the left turn permissive phasing.

During the afternoon pick-up period, queues were observed on northbound Etiwanda Avenue from the cul-de-sac to Kittridge Street. This was due, primarily, to parents double-parking, parents exiting curb parking, and pedestrians crossing mid-block. Queues of approximately 125 feet, 150 feet, and 250 feet were observed for the eastbound, southbound, and northbound approaches, respectively, at the intersection of Etiwanda Avenue and Kittridge Street due to the high pedestrian volume crossing the intersection. A queue of approximately 100 feet was also observed on eastbound Kittridge Street at Chimineas Avenue due to pedestrians crossing Chimineas Avenue, blocking the eastbound left turn movement. Lastly, queues of approximately 75 feet for all directions were observed in the main faculty and staff parking lot, located near the northeast corner of the school campus, due to pedestrians walking within the parking lot and crossing the parking lot driveway on the south side of Kittridge Street. Pedestrians consequentially block vehicle movement within the parking lot and through the parking lot driveway.

Appendix D contains traffic counts that were obtained from the City of Los Angeles Department of Transportation (LADOT) *NavigateLA* database.

Per school administration, at Magnolia Science Academy 5 students walk in, or are dropped off at the southern Etiwanda gate, which causes significant congestion and pedestrian-vehicle conflicts at the cul-de-sac and service road. This leads to severe congestion for southbound vehicles turning around to drive northbound and affects the ability of buses to enter the site to pick-up and drop-off students with disabilities.

School administration also noted that they have received numerous complaints from the neighborhood regarding parking, circulation, and congestion issues before morning bell and after dismissal.

3.0 SCHOOL OPERATIONS

3.1 Parking

At the Reseda HS main campus, there are a total of five parking lots, consisting of one main faculty lot, three internal faculty lots, and one student lot. The main faculty and staff parking lot, located in the northeast corner of the school campus, contains 53 marked spaces with 1 accessible and 1 van-accessible spaces. This parking lot can be accessed via a gated entrance on Kittridge Street, 300 feet west of Lindley Avenue. The parking lot gate is closed and locked during school hours.

The faculty and staff parking lot located in the southeast side of Etiwanda Avenue and Kittridge Street contains 30 marked spaces with 1 accessible and 2 van-accessible spaces. This parking lot can be accessed via a gated entrance on Etiwanda Avenue 125 feet south of Kittridge Street. The parking lot gate is closed and locked during school hours.

The faculty and staff parking lot located in the southwest corner of the school campus contains 23 marked spaces with 1 van-accessible spaces. The faculty and staff parking lot located on the south side of campus contains 33 marked spaces with 2 van-accessible spaces. Both parking lots can be accessed via a gated entrance on Etiwanda Avenue near the cul-de-sac. The parking lot gate is closed and locked during school hours.

The student parking lot, which is located in the southeast corner of the school campus near the intersection of Lindley Avenue and Victory Boulevard, contains 154 marked spaces with 4 accessible and 2 van-accessible spaces. This parking lot can be accessed via two gated entrances on Lindley Avenue and a gated entrance on Victory Boulevard. The parking lots gates are closed during school hours. School administration stated that very few students drive to or from campus.

During the field visit, it was noted that the parking utilization at the main faculty lot was 75% to 95%. The faculty and staff parking lot southeast of the intersection of Etiwanda Avenue and Kittridge Street was more than 95% utilized with 5 vehicles parked in unmarked areas. The faculty and staff parking lot located at the southwest corner of Reseda HS was more than 95% utilized with 11 vehicles parked in unmarked areas along the east side of the parking lot and in accessible marked areas. The faculty and staff parking lot on the south side of campus was 100% utilized with 17 vehicles parked in unmarked areas and no parking zones. Lastly, the student lot located on the southeast corner of campus was 25% to 50% utilized.

3.2 Circulation

There are no designated or signed student pick-up/drop-off areas around Reseda HS. However, the main areas observed to be used for student pick-up/drop-off are along Etiwanda Avenue and Kittridge Street, where vehicles park along the curb. This creates a long queue for vehicles trying to pick-up or drop-off students along both streets due to parents double-parking, vehicles exiting curb parking, and student pedestrians crossing mid-block. During the morning bell period, queues were observed at the intersection of Etiwanda Avenue and Kittridge Street and Lindley Avenue and Kittridge Street. Students were also observed to be dropped-off on neighboring streets north of Kittridge Street. School buses were seen to travel to Kittridge Street from eastbound Kittridge Street and southbound Etiwanda Avenue. School buses and vehicles drop-off students on the south side of Kittridge Street. During the afternoon bell period, queues on Kittridge Street extend from Etiwanda Avenue to Wynne Avenue and queues on Etiwanda Avenue extend from the end of the cul-de-sac to Kittridge Street. During the field visit for both the morning and afternoon, vehicles were observed to park along the cul-de-sac making it difficult for other vehicles to make U-turns, creating a much longer queue on Etiwanda Avenue. In addition, after dropping off or picking up students, vehicles were observed continuing eastbound and turning left onto Chimineas Avenue. Because Chimineas Avenue continues north to Vanowen Street, it appears some vehicles are cutting through on this route to avoid longer delays at the intersection of Kittridge Street and Lindley Avenue.

High volumes of vehicles exiting parking lots create delays to the vehicle flow on Kittridge Street and conflicts with pedestrians, especially for the main faculty and staff lot located at the northeast corner of campus. School buses for students with disabilities pickup and drop-off along the service road within the faculty and staff parking lot on the south side of campus. These buses enter the parking lot on Etiwanda Avenue, proceed eastbound, turn northbound along the service road, and exit onto Kittridge Street. During the field visit, school buses and other vehicles were observed to experience difficulty exiting the parking lot due to vehicles parking along red curbs blocking their line of sight.

As for pedestrian circulation, students exit through all of the parking lot gates and the main entrance gate in front of the campus. A high volume of pedestrians was observed at the intersections of Etiwanda Avenue and Kittridge Street and at the intersection of Lindley Avenue and Kittridge Street. Some students were also observed to cross mid-block on Etiwanda Avenue and Kittridge Street. Students also use the pedestrian bridge to cross the Los Angeles River, which creates conflicts with vehicles making U-turns at the cul-de-sac. Students crossing

parking lot driveways were also observed conflicting with vehicles exiting parking lots. Few students were observed using public transportation along Victory Boulevard.

School administration indicated that most vehicles approach Kittridge Street from the north, via Wilbur Avenue, Reseda Boulevard, or Lindley Avenue. Vehicles from the south or east are heavily influenced by the two major freeways nearby. For the US 101 Freeway, drivers tend to use Lindley Avenue to White Oak Avenue. For the I-405 Freeway, drivers tend to use Sherman Way or Vanowen Street, and tend to avoid using Victory Boulevard due to congestion.

3.3 Crash History

Crash data used for the Vision Zero project was extracted within the Reseda HS school zone[4]. Between 2013 and 2016, a total of 60 crashes occurred. Forty-nine of these crashes were near the intersection of Lindley Avenue and Victory Boulevard, including one vehicle and bicycle collision that did not result in severe injury and two broadside collisions that resulted in severe injury. These collisions do not appear to be directly related to Reseda HS as the main loading/unloading zones are along Kittridge Street and Etiwanda Avenue. Seven of the total crashes occurred near the intersection of Lindley Avenue and Kittridge Street, including two vehicle and bicycle collisions that occurred at the intersection which resulted in visible injury. Four crashes occurred along Kittridge Street, of which three were rear-end collisions and one head-on collision. No fatalities were recorded.

Based on the available data, two discernible collision patterns were noted. The three vehicle and bicycle collisions that occurred within the school zone may be partly due to the fact that there are no designated bicycle facilities on roadways adjacent to Reseda HS; therefore, bicyclists share the road with vehicles and crosswalk with pedestrians. The four collisions that occurred along Kittridge Street may be partly due to roadways that are not wide enough to accommodate two-way traffic and parking on both of sides of the street.

4.0 DEFICIENCIES AND OPPORTUNITIES

4.1 Walk Audit Observations

Internal circulation within the Reseda HS campus appears relatively efficient. Most buildings are located close together and accessible paths of travel appear to be planned out effectively. Staff noted that students enrolled in the special education program generally had little need to enter

[4] http://visionzero.geohub.lacity.org/

onto the main campus, which results in few students needing to cross the service road internally. However, parked vehicles have the ability to travel freely in either direction along the service road, since this road does not have an internal gate. In one location, it appeared that a minor desire line had been formed through landscaping south of the auditorium, indicating a desired path of travel. However, this path was relatively small and may not indicate a major need.

The following off-site deficiencies were observed during the external walk audit conducted on May 24, 2018 within the school perimeter: :

- Lindley Avenue
    - Street lighting is not provided on the east side of Lindley Avenue; pedestrian visibility may be limited during early-morning and late-evening, especially during winter months.
    - Uneven sidewalk surface on the west side of Lindley Avenue 75 feet north of Kittridge Street; may create accessibility challenges
    - Uneven sidewalk surface on the east side of Lindley Avenue 100 feet south of Kittridge Street; may create accessibility challenges
    - Growing vegetation between cracks in sidewalks, may decrease navigable width of sidewalk
- Kittridge Street
    - “Slow Children at Play” warning sign on Wynne Avenue located 50 feet north of Kittridge Street is defaced
    - Uneven sidewalk surface on the north side of Kittridge Street 75 feet east of Lindley Avenue; may create accessibility challenges
    - Uneven sidewalk surface on the south side of Kittridge Street at the driveway exit of main faculty parking lot; may create accessibility challenges
    - Tactile strips for all curbs ramps along Kittridge Street between Etiwanda Avenue and Lindley Avenue are absent; may be difficult for visually–impaired pedestrians to cross intersections
    - No marked crosswalks on Kittridge Street at Chimineas Avenue, Wynne Avenue, and Nestle Avenue; these intersections feature curb ramps on both the north and south sides of Kittridge Street, which may incorrectly indicate to pedestrians to cross mid-block at these locations
- Lindley Avenue and Kittridge Street

  - Uneven sidewalk surface near pedestrian push button on the northeast corner of the intersection due to pavement sinking; may create accessibility challenges with respect to reaching the pedestrian button
  - Curb ramp on the southwest corner is not flush with connecting sidewalk; may create accessibility challenges
  - Crossing pavement marking is worn on the south side of the intersection; may reduce crosswalk visibility
- Lindley Avenue and Victory Boulevard
  - Tactile strips for all curb ramps are absent; may be difficult for visually impaired pedestrians to cross the intersection
  - Gutter after curb ramp on the southwest corner is not flush with crossing pavement; may create accessibility challenges

Additional detail from the walk audit is provided in ***Appendix B***. Selected photos illustrating some of the deficiencies identified above are provided in ***Appendix C***.

4.2 Observed Circulation Deficiencies

- Pick-up/Drop-offs
  - Vehicles making illegal U-turns and double-parking along Etiwanda Avenue and Kittridge Street
  - Vehicles parking in driveways and blocking sidewalk and curb ramps along Etiwanda Avenue and Kittridge Street
  - No Parking zone on the south side of Kittridge Street, north of Reseda HS, is used for student pick-up/drop-off
  - Vehicles parking along red curbs (no parking) near parking lot driveways reduce line of sight for vehicles exiting parking lots, creating delays inside the parking lot and adjacent street
  - Vehicles parking on the south side of Kittridge Street cause interference with school bus drop-off operations

- Parking
    - Vehicles exiting parking lots create conflicts with pedestrians crossing parking lot driveways
    - Vehicles parked in unmarked areas or in no parking zones in faculty and staff parking lots
    - Accessibility-related pavement markings in student parking lot located in the southeast corner of school campus are worn
- Circulation
    - Permissive left-turn phasing at the intersection of Lindley Avenue and Kittridge Street creates delay for left turn movements
    - Conflict between pedestrians and vehicles on service road inside Reseda HS campus
    - High pedestrian volumes at the intersections of Etiwanda Avenue and Kittridge Street and Lindley Avenue and Kittridge Street causes vehicle delay
    - Pedestrians crossing mid-block on Etiwanda Avenue and Kittridge Street creates delay for through traffic
    - High pedestrian volumes at the Etiwanda Avenue cul-de-sac creates conflict with vehicles making U-turns at the cul-de-sac

4.3 Positive Attributes

- Campus appears well maintained and provides many opportunities for shade or other shelter from inadvertent weather

4.4 Opportunities

The following opportunities are not required improvements and are not required to limit or mitigate potential impacts. This list is provided solely as observations to LAUSD of the existing conditions that were observed during a site visit for planning purposes. The feasibility or practicality of these opportunities have not been evaluated and LAUSD does not have jurisdiction over any off-site improvements.

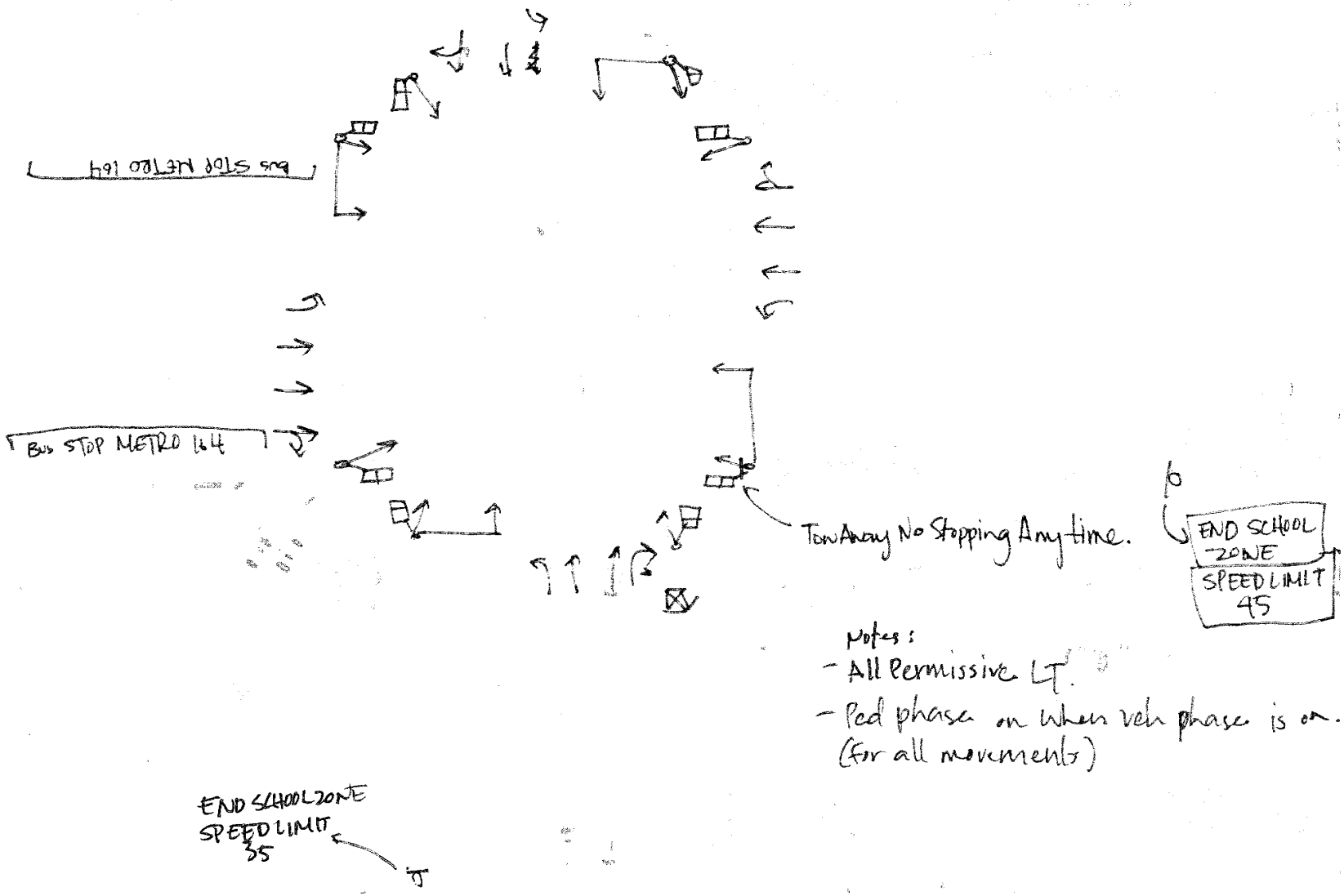
- Install signs that indicate “School Bus Only” for bus loading zone along Kittridge Street
- Repair worn pavement markings at the intersection of Lindley Avenue and Kittridge Street; however, off-site repairs are not within the jurisdiction of LAUSD

- Install striped pedestrian crossings along Kittridge Street to connect to neighboring streets (Chimineas Avenue, Wynne Avenue, and Nestle Avenue), or remove curb ramps on south side of Kittridge Street
- Repair or install new “Slow Children at Play” warning sign on Wynne Avenue; however, off-site repairs are not within the jurisdiction of LAUSD
- Repair or repave uneven sidewalk surfaces on Kittridge Street and Lindley Avenue; however, off-site repairs are not within the jurisdiction of LAUSD
- Consider requesting that the City vacate Etiwanda Avenue and relinquish part of the street to LAUSD, to help alleviate pedestrian-vehicle conflicts and congestion issues
- Consider terminating the service road near the gymnasium, and utilizing space occupied by portable classrooms as a turn-around and loading area for school buses; this would allow for complete separation between vehicles and pedestrians (who would also walk to or from the student parking lot), as well as help secure the campus from special events held at the gym and stadium
- Consider designating a student pick-up/drop-off area on Kittridge Street separated from the School Bus zone
- Install tactile strips on curb ramps at the intersections of Lindley Avenue and Kittridge Street, and Lindley Avenue and Victory Boulevard
- Consider promoting use of the student parking lot to school faculty and staff to accommodate overflow from the faculty and staff parking lots and reduce the number of vehicles illegally parking on-site
- Consider using underutilized student parking lot at the corner of Lindley Avenue and Victory Boulevard as a possible location for a new pick-up/drop-off facility around the perimeter
- Consider prohibiting left turns from eastbound Kittridge Street to Chimineas Avenue

APPENDIX A

Field Review Sheets

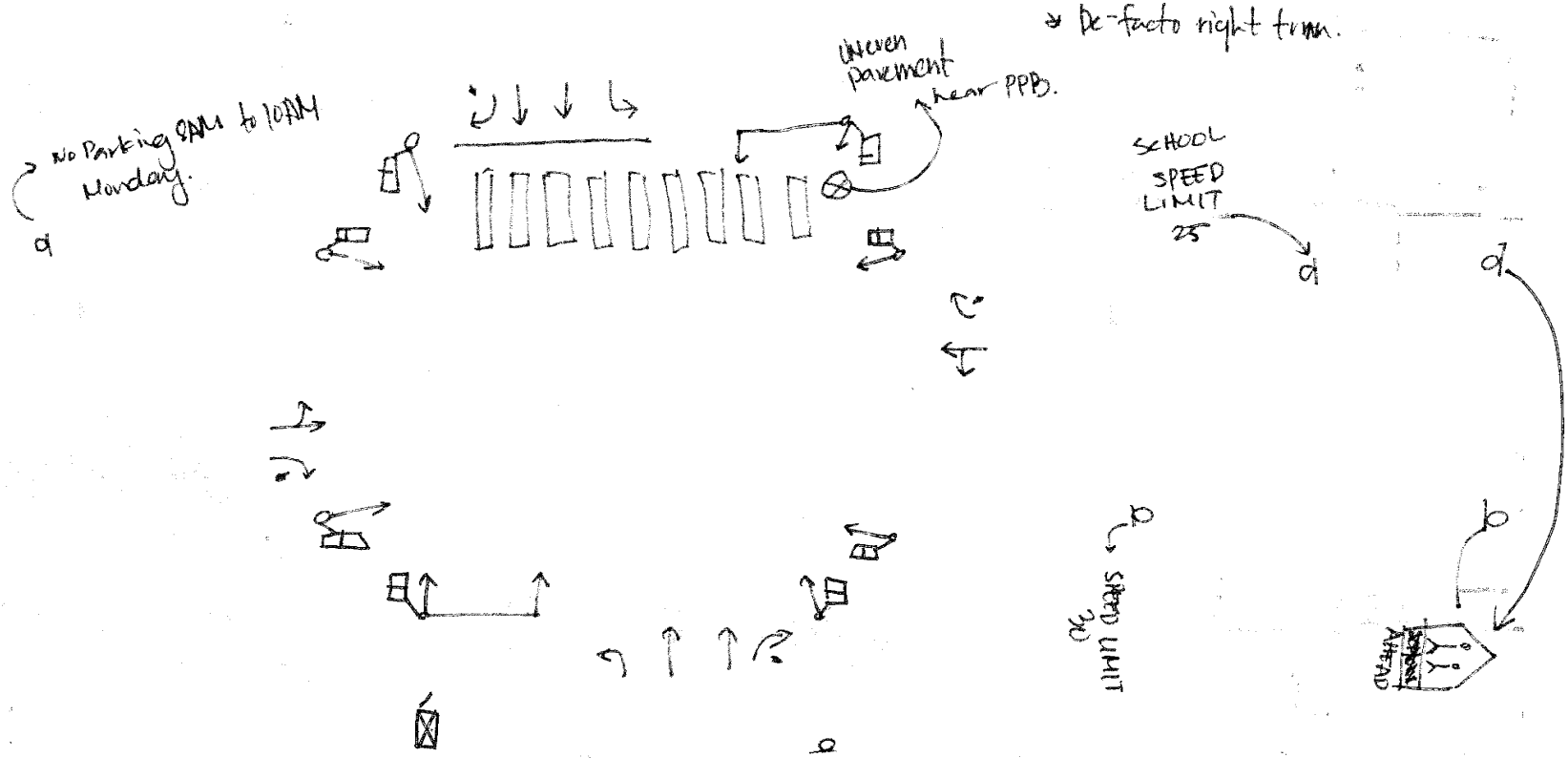
Victory Boulevard & Lindley Avenue



Notes:
- All Permissive LT.
- Ped phase on when veh phase is on. (for all movements)

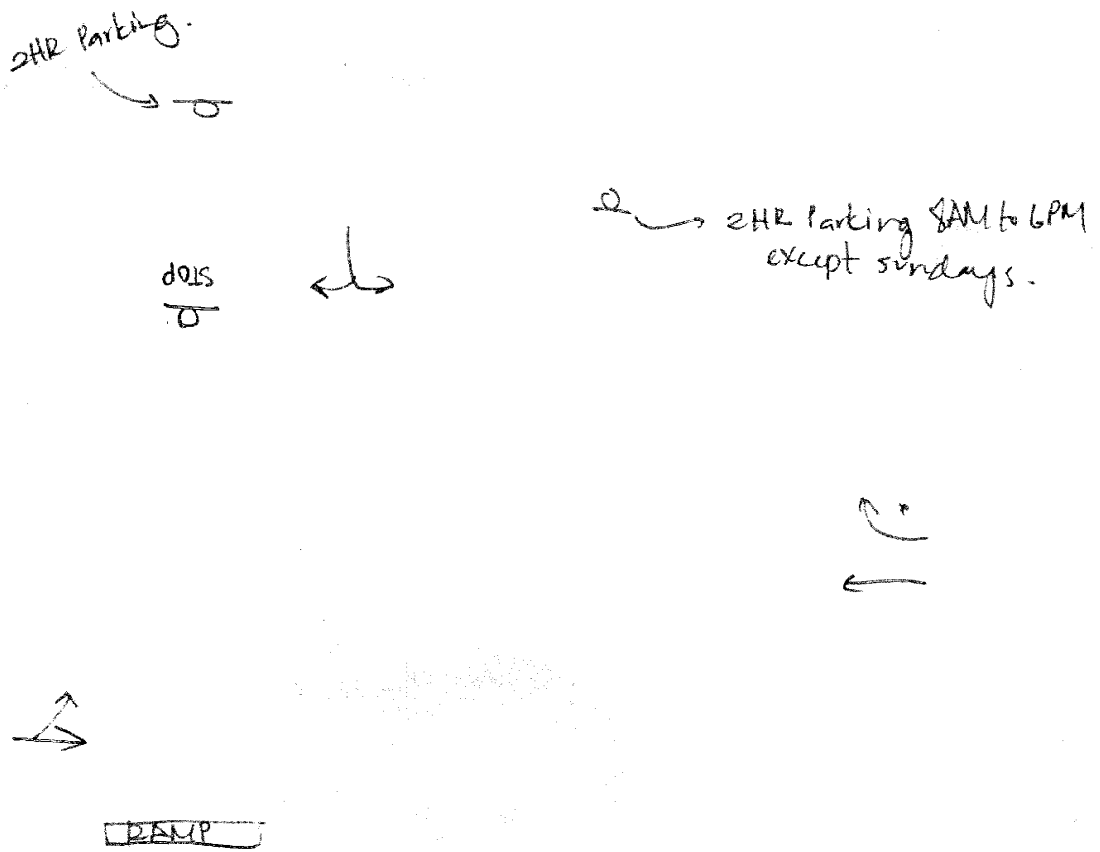
©2013 Cargo

Kinridge Street & Lindley Avenue

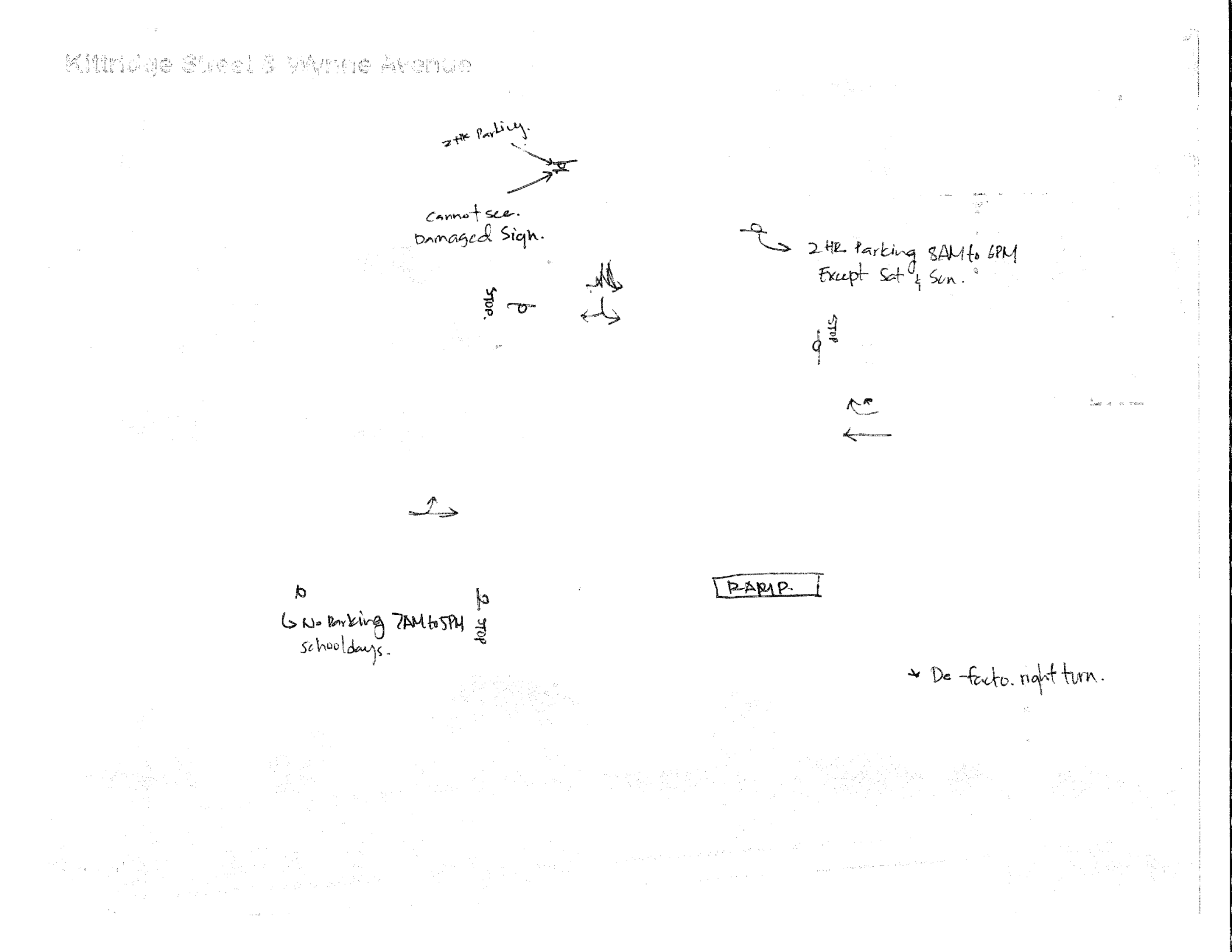


Notes:
- Semi-actuated.
- Ped phase for EB and WB always on when EB and WB phasings are on.
- All permissive LT.

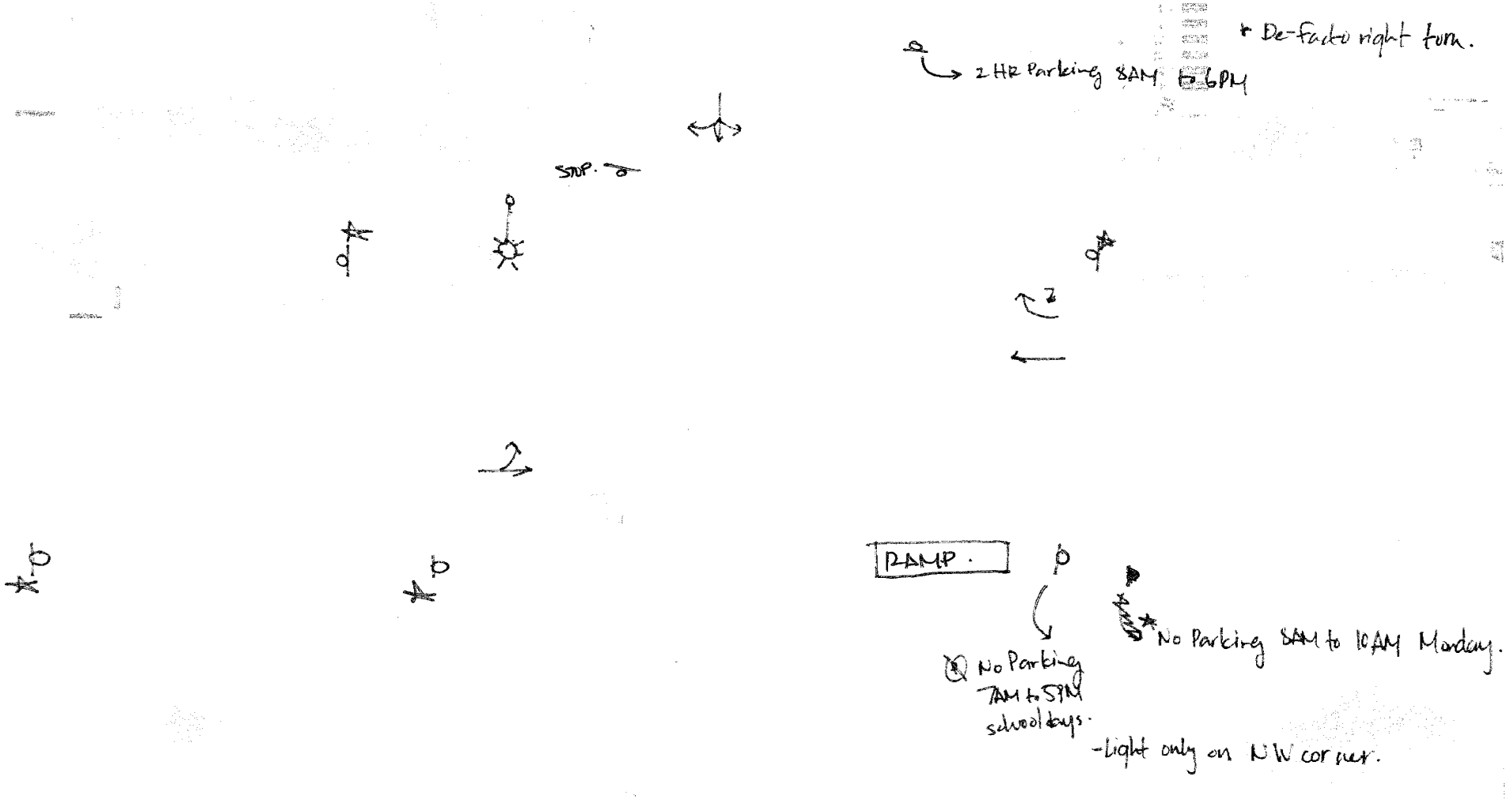
Kittridge Street & Entrance Avenue



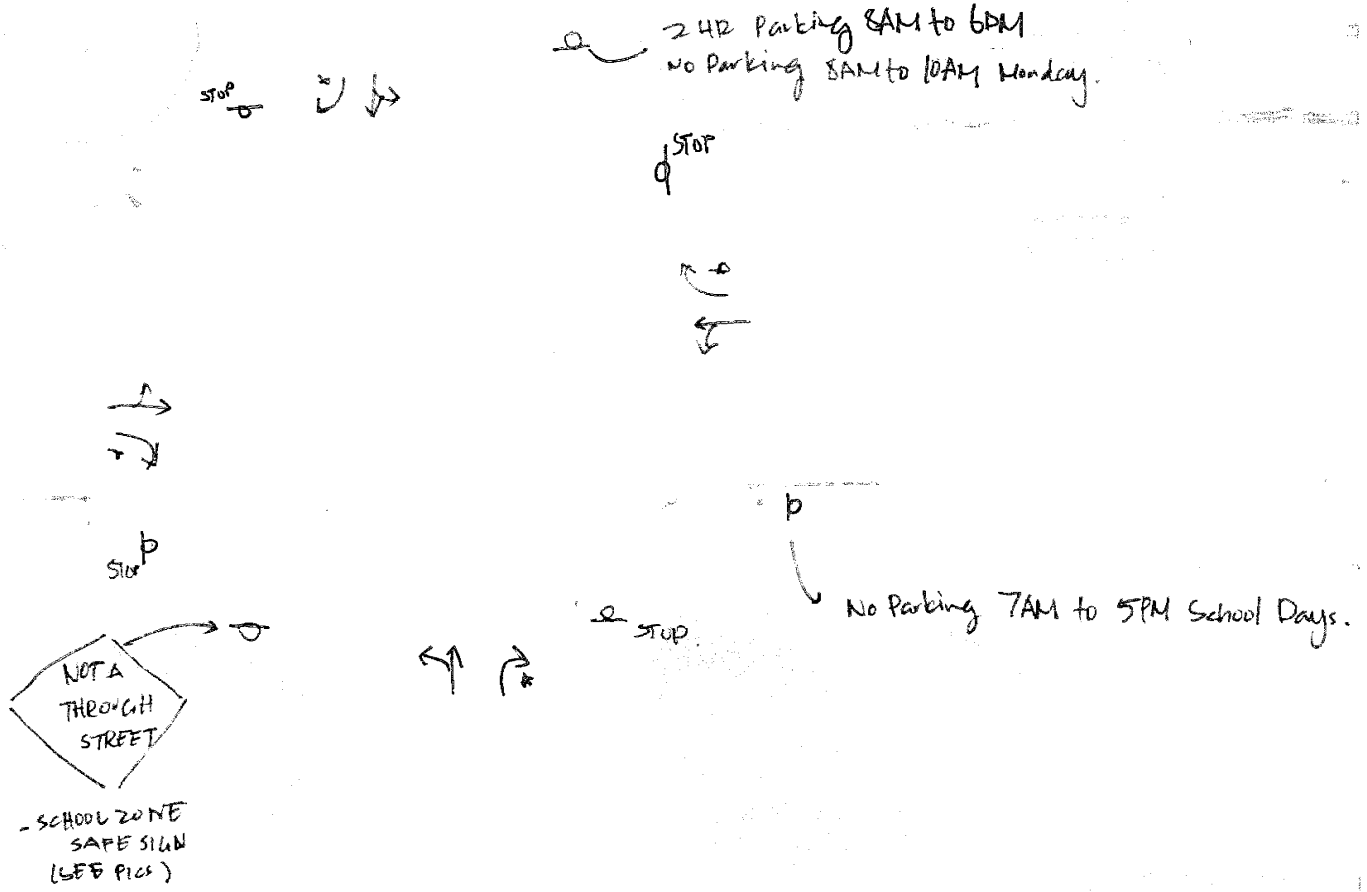
Kittridge Street & Wynne Avenue



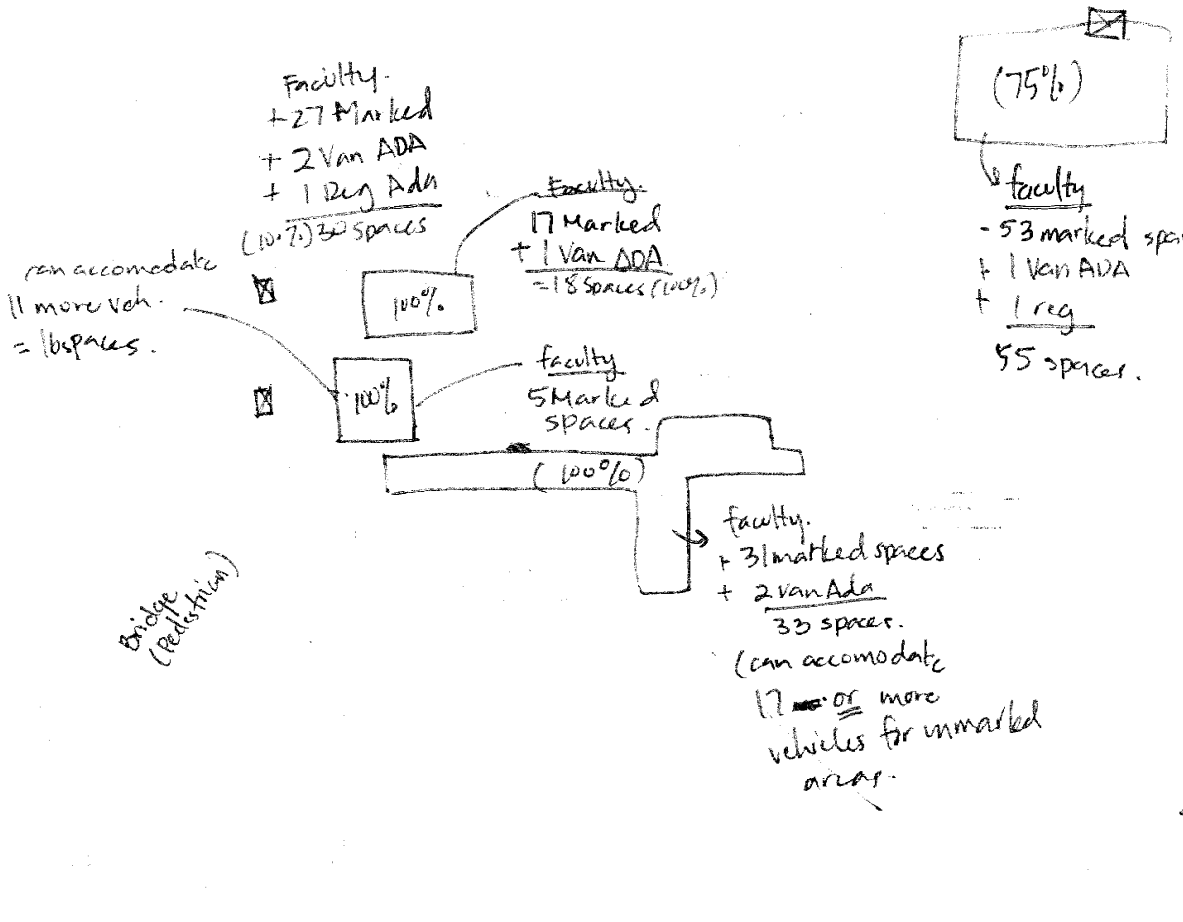
Kittridge Street & Nestle Avenue



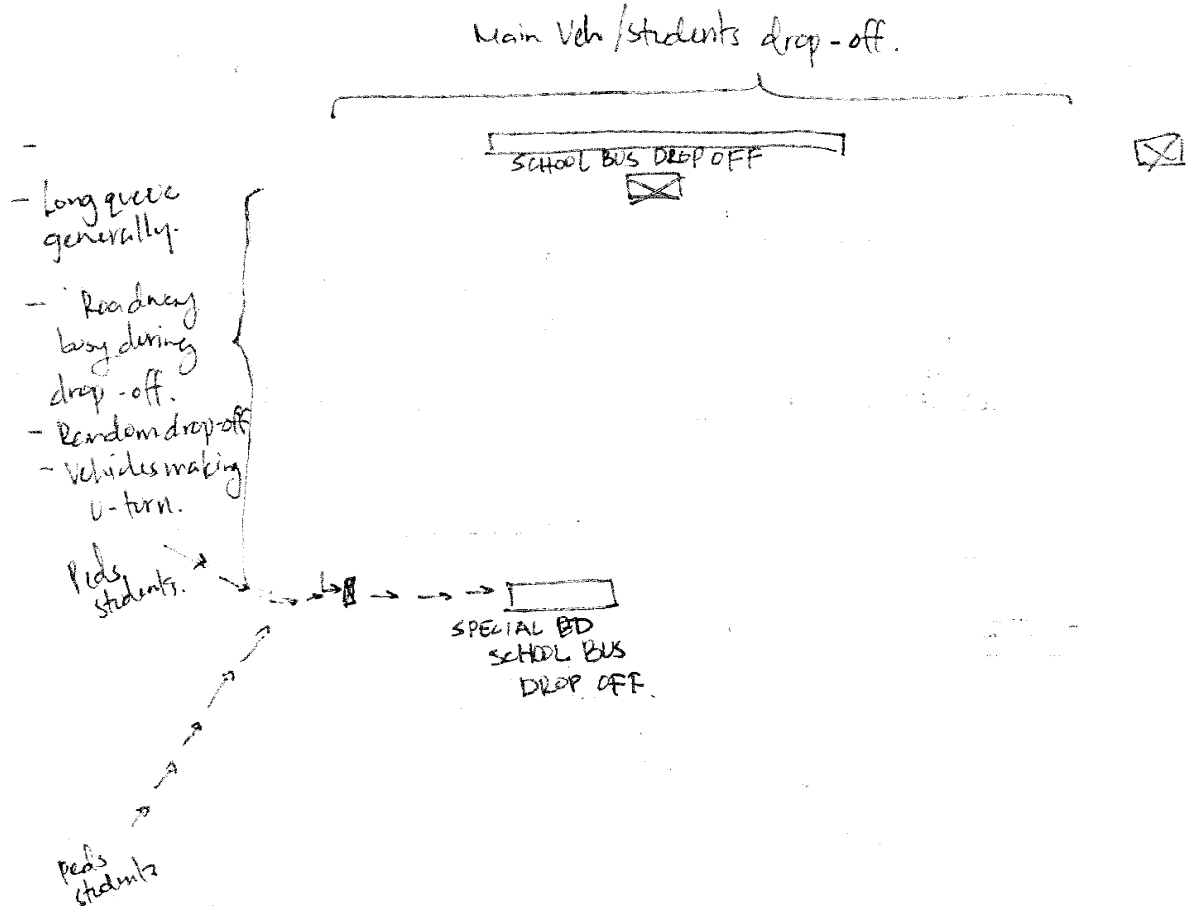
Kittridge Street & Sylvanda Avenue

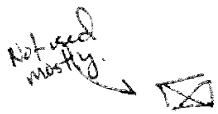


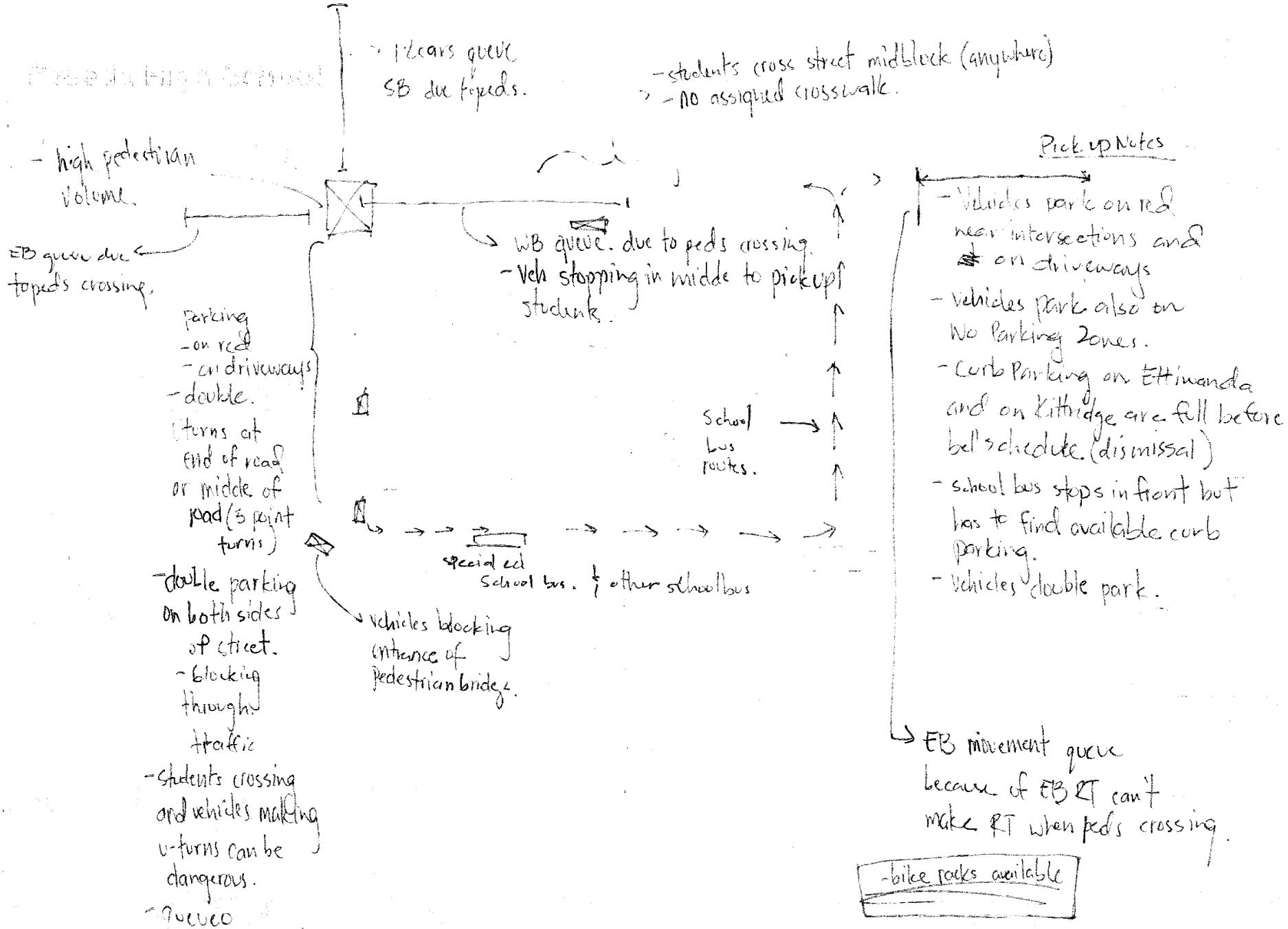
Reseda High School



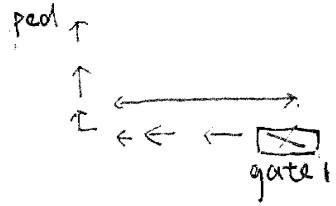
Rosedale Hgts School



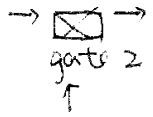



- 12 cars queue SB due to peds.
- students cross street midblock (anywhere)
- NO assigned crosswalk.
- high pedestrian volume.
EB queue due to peds crossing.
WB queue. due to peds crossing.
- Veh stopping in middle to pickup/ student.
Pick up Notes
- Vehicles park on red near intersections and on driveways
- Vehicles park also on No Parking Zones.
- Curb Parking on Ettiwanda and on Kittridge are full before bell schedule (dismissal)
- school bus stops in front but has to find available curb parking.
- Vehicles double park.
Parking
- on red
- on driveways
- double.
(turns at end of road or middle of road (3 point turns)
School bus routes.
special ed School bus. & other schoolbus
-double parking on both sides of street.
- blocking through traffic
Vehicles blocking entrance of pedestrian bridge.
-Students crossing and vehicles making u-turns can be dangerous.
-Queues
- NB movement all the way to the end of street.
- due to cars coming out of parking and pedestrians crossing.
EB movement queue because of EB RT can't make RT when peds crossing.
-bike racks available

Reseda High School



gate 2 : cars get out the parking lot (school buses) can be dangerous.
- students also use this gate.
- people park on the right near parking driveway. prohibits school buses left turn.
- queue in parking lot. (4veh)



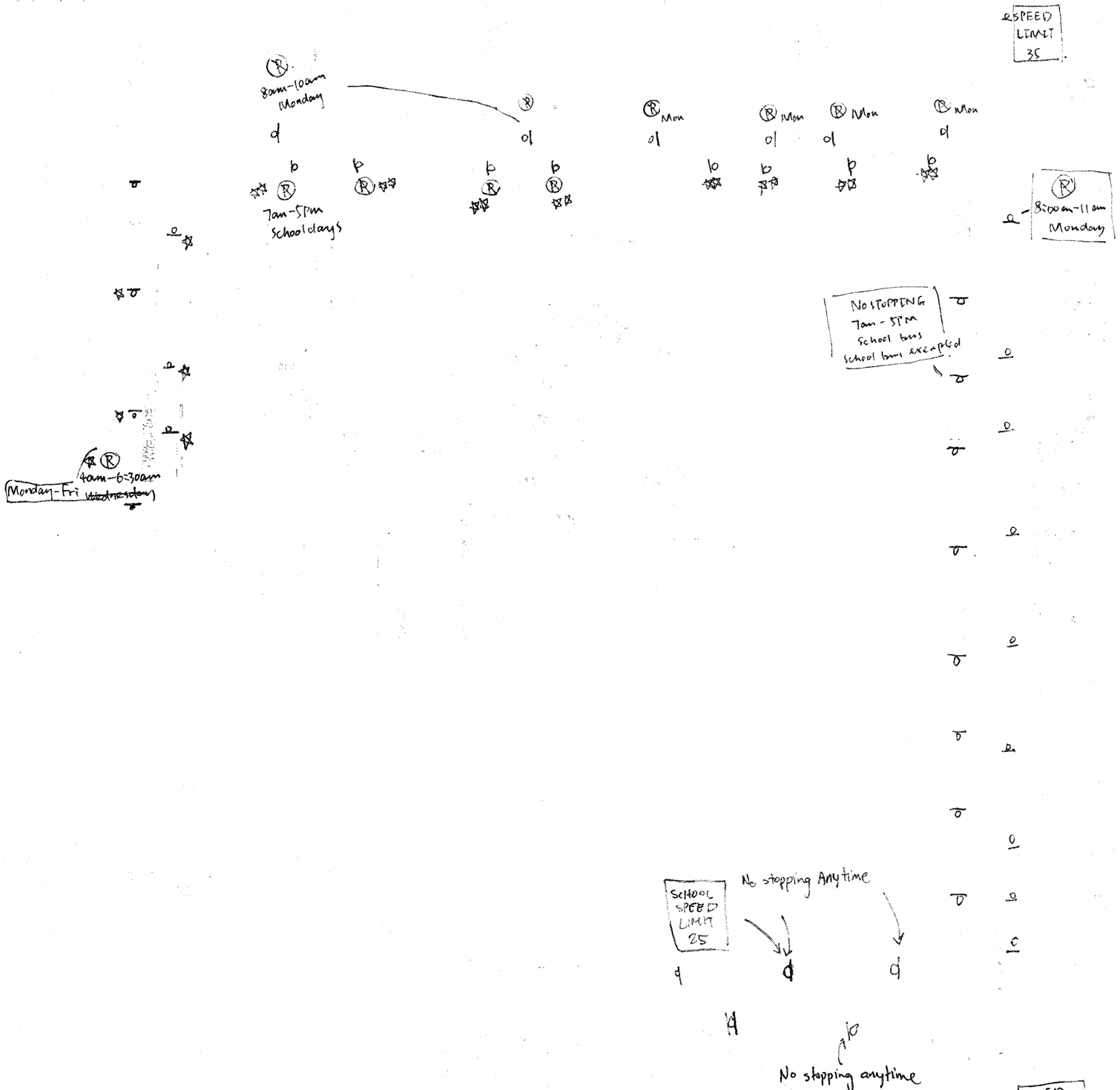
PM Pick Up : 3:05pm.
- Vehicles/parents park on the south side of Kittridge St. (waiting for kids) (should be no parking 7am-5pm school days).
From Etiwanda to Lindley Ave (almost 100%)

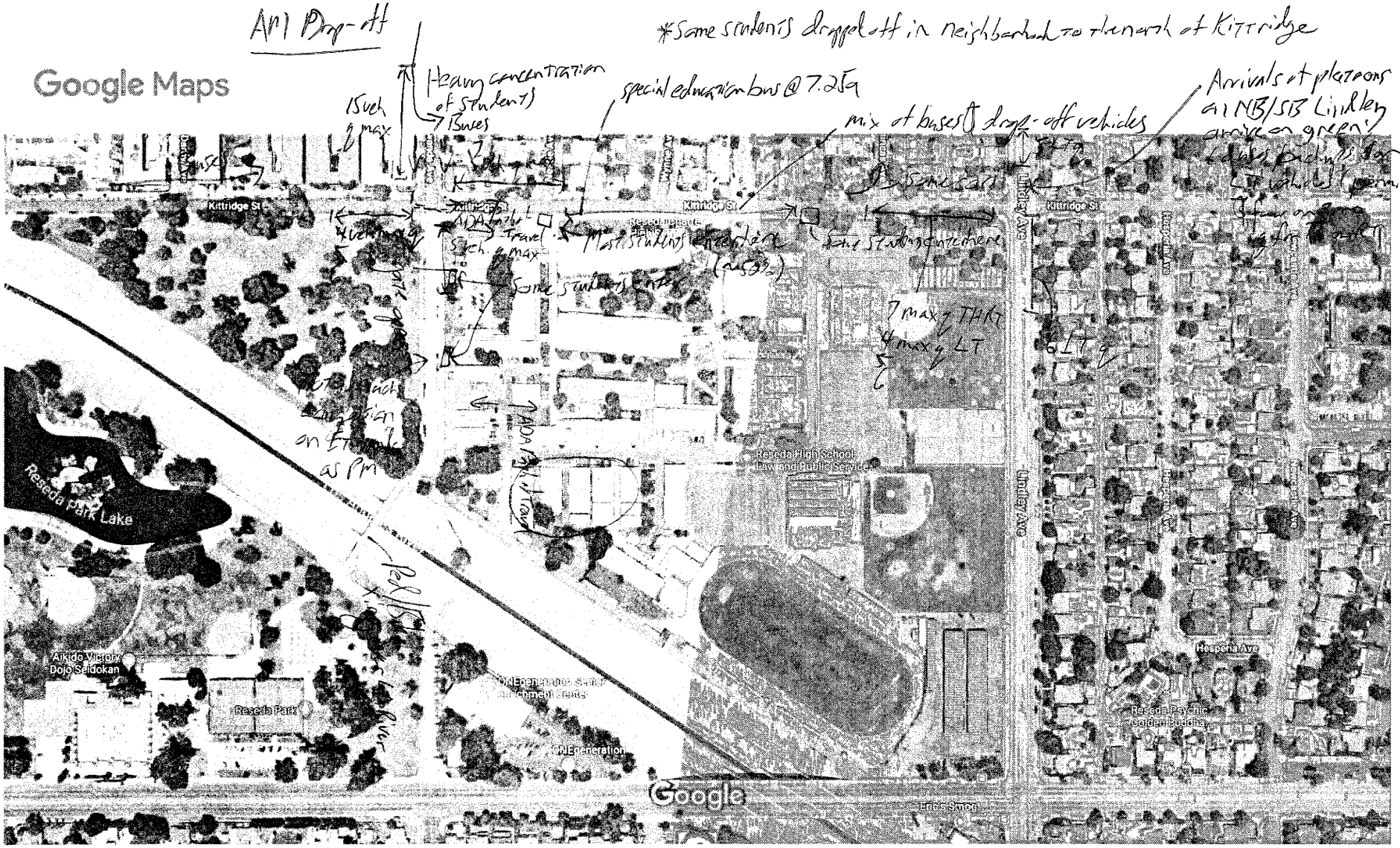
gate 1.

- when some cars leave in the parking line, front car back off → safety concern.

- cross in the Kittridge st & Nestle Ave. no crossing guard. no crosswalk. → safety concern. marked.

- a queue on the north side of Kittridge near the intersection Kittridge and Etiwanda. because waiting for students to cross.


SPEED LIMIT 35
8am-10am Monday
7am-5pm Schooldays
Mon
Mon
Mon
Mon
8:00am-11am Monday
NO STOPPING 7am - 5PM School buses School buses excepted
7am-6:30am Monday-Fri
SCHOOL SPEED LIMIT 25
No stopping Anytime
No stopping anytime
SPEED LIMIT 25 mph


AM Drop-off
*Some students drop off in neighborhood to the west of Kittridge
Google Maps
Heavy concentration of students / Buses
special education buses @ 7:25a
mix of buses & drop-off vehicles
Arrivals at platoons on NB/SB Lindley
15 veh 9 max
Kittridge St
Lindley Ave
Reseda High School Law and Public Service
Reseda Park Lake
Aikido Yuigoto Dojo Seidokan
Reseda Park
ONEgeneration
Google
Imagery ©2018 Google, Map data ©2018 Google 100 ft

APPENDIX B

Walk Audit Sheets

EXISTING CONDITIONS FIELD ASSESSMENT

PROCEDURE:

Each school location will include a project limit of all streets, intersections and midblock crossings that immediately surround the school grounds. Streets and intersections will be identified prior to the site visit.

OBSERVER: Vivianne Tabuena / Sihua Song DATE: 05/24/2018

LOCATION/WEATHER: Reseda / Cloudy TIME: 8:00 am - 3:30pm

STREETS:

Kittridge St, between Etiwanda Ave and Lindley Ave

Lindley Ave, between Kittridge St and Victory Blvd.

Victory Blvd, between Lindley Ave and Etiwanda Ave

Etiwanda Ave, between Kittridge St and ~~south of~~ South of.

INTERSECTIONS:

① Etiwanda Ave and Kittridge St.

② Kittridge St. and Wynne Ave

③ Kittridge St and Nestle Ave

④ Kittridge St and Chimineas Ave.

⑤ Kittridge St and Lindley Ave

⑥ Lindley Ave and Victory Blvd.

After the project limit has been determined and aerial has been printed, the following list of items will be recorded or identified as missing:

1. Existing Lane Configurations
   a. Intersections – within reasonable vicinity of school
   b. Street Segments – within reasonable vicinity of school
2. Existing Traffic Signs
3. Locations of Existing Traffic Signals and Street Lighting
4. Locations of Existing Transit Areas
5. Existing Pedestrian and Bicycle Facilities
   a. Bike Lanes
   b. Sidewalks
   c. Crosswalks
   d. Pedestrian Ramps
6. Parking configurations as shown on aerials for:
   a. Administration
   b. Teachers
   c. Students
   d. Visitors
   e. Deliveries
   f. Buses
   g. On-street
7. Pick-up and Drop-off Operation Issues During Peak Periods
8. General Internal and External Circulation Issues

A Road Safety Audit (see attached template) will be conducted as part of each location's assessment.

NEEDS:

- Safety Vest
- Clipboard, pad and pen/pencil
- Geo-referenced digital camera
- Measuring wheel
- Shoes with ankle protection

LINDLEY AVENUE

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	N
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N – Note 1
	4.	Is the walking surface adequate and well-maintained?	N –
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y on one side.
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N. No bike.
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

Note 1. uneven surface on both sides. see picture. over-grown.

Victory Blvd.

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	N
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	Y
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N. No bike.
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y.

***For any Result with "N" or "Other", please add notes below:**

KITTRIDGE ST.

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	N
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	N ~~uneven~~ crack — see picture.
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y. one side.
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y

***For any Result with "N" or "Other", please add notes below:**

Etiwanda Ave.

STREETS

Topic		Question	Result (Y, N, Other or N/A)
Presence, Design and Placement	1.	Are sidewalks provided along the street?	Y
	2.	If no sidewalk is present, is there a walkable shoulder (e.g. wide enough to accommodate cyclists/pedestrians) on the road or other pathway/trail nearby?	N/A
	3.	Are shoulders/sidewalks provided on both sides?	Y
	4.	Is the sidewalk width adequate for pedestrian volumes?	Y
	5.	Is there adequate separation distance between vehicular traffic and pedestrians?	Y
	6.	Are sidewalk/street boundaries discernable to people with visual impairments?	N
	7.	Are ramps provided as an alternative to stairs?	Y
Quality, Conditions, and Obstructions	1.	Will snow storage disrupt pedestrian access or visibility?	N/A
	2.	Is the path clear from both temporary and permanent obstructions?	Y
	3.	Is the walking surface too steep?	N
	4.	Is the walking surface adequate and well-maintained?	* N - cracked pavement (mild)
Continuity and Connectivity	1.	Are sidewalks/walkable shoulders continuous and on both sides of the street?	Y
	2.	Are measures needed to direct pedestrians to safe crossing points and pedestrian access ways?	N
Lighting	1.	Is the sidewalk adequately lit?	Y lights are in one side
	2.	Does the street lighting improve pedestrian visibility at night?	Y
Visibility	1.	Is the visibility of pedestrians walking along the sidewalk/shoulder adequate?	Y
Driveways	1.	Are the conditions at driveways intersecting sidewalks endangering pedestrians?	N
	2.	Does the number of driveways make the route undesirable for pedestrian travel?	N
Traffic Characteristics	1.	Are there any conflicts between bicycles and pedestrians on sidewalks?	N. No bike
Signs and Pavement Markings	1.	Are pedestrian travel zones clearly delineated from other modes of traffic through the use of striping, colored and/or textured pavement, signing, and other methods?	Y.

***For any Result with "N" or "Other", please add notes below:**

Lindley ave & Victory Blvd.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y - Note 1
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	Y - Note 2.
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	Y
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	N/A.

***For any Result with "N" or "Other", please add notes below:**

Note 1. No tactile stripe.

2. Paint on crosswalk worn.

KITTRIDGE ST & CHIMINEAS Avenue.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	N/A no marked crosswalks.
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N/A
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y – Note 1.
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

Note 1. No tactile stripe.

KITTRIDGE ST & LINDLEY Ave

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y - Note 1
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y other Note 3
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	Y - Note 2
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	Y
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	Y
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	Y
	5.	Are ADA accessible push buttons provided and properly located?	Y

***For any Result with "N" or "Other", please add notes below:**

Note 1 No tactile stripe.

2 South side of this intersection. paint on crosswalk is worn.

3. Curb ramp not flush with sidewalk @ NE corner. @ NW corner. uneven sidewalk - uneven surface near PPB

KITTRIDGE ST & WINNE Avenue.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	N/A No marked crosswalk
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	N/A
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y – Note 1
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	N – Note 2
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

Note 1. No tactile stripe.

2. Only 1 light.

Etiwanda Ave & Kittridge St.

INTERSECTIONS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do wide curb radii lengthen pedestrian crossing distances and encourage high-speed right turns?	N
	2.	Do channelized right turn lanes minimize conflicts with pedestrians?	N/A
	3.	Does a skewed intersection direct drivers' focus away from crossing pedestrians?	N
	4.	Are pedestrian crossings located in areas where sight distance may be a problem?	N
	5.	Do raised medians provide a safe waiting area (refuge) for pedestrians?	N/A
	6.	Are supervised crossings adequately staffed by qualified crossing guards?	N
	7.	Are marked crosswalks wide enough?	Y
	8.	Do at-grade railroad crossings accommodate pedestrians safely?	N/A
	9.	Are crosswalks sited along pedestrian desire lines?	Y
	10.	Are corners and curb ramps appropriately planned and designed at each approach to the crossing?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions*		
	1.	Is the crossing pavement adequate and well maintained?	Y
	2.	Is the crossing pavement flush with the roadway surface?	Y
Continuity and Connectivity	1.	Does pedestrian network connectivity continue through crossings by means of adequate, waiting areas at corners, curb ramps and marked crosswalks?	Y
	2.	Are pedestrians clearly directed to crossing points and pedestrian access ways?	Y
Lighting	1.	Is the pedestrian crossing adequately lit?	Y
Visibility	1.	Can pedestrians see approaching vehicles at all legs of the intersection/crossing and vice versa?	Y
	2.	Is the distance from the stop (or yield) line to a crosswalk sufficient for drivers to see pedestrians?	Y
	3.	Do other conditions exist where stopped vehicles may obstruct visibility of pedestrians?	N
Access Management	1.	Are driveways placed close to crossings?	N
Traffic Characteristics	1.	Do turning vehicles pose a hazard to pedestrians?	N
	2.	Are there sufficient gaps in the traffic to allow pedestrians to cross the road?	Y
	3.	Do traffic operations (especially during peak periods) create a safety concern for pedestrians?	N
Signs and Pavement Markings	1.	Is paint on stop bars and crosswalks worn, or are signs worn, missing, or damaged?	N
	2.	Are crossing points for pedestrians properly signed and/or marked?	Y
Signals	1.	Are pedestrian signal heads provided and adequate?	N/A stop control
	2.	Are traffic and pedestrian signals timed so that wait times and crossing times are reasonable?	N/A
	3.	Is there a problem because of an inconsistency in pedestrian actuation (or detection) types?	N/A
	4.	Are all pedestrian signals and push buttons functioning correctly and safely?	N/A
	5.	Are ADA accessible push buttons provided and properly located?	N/A

***For any Result with "N" or "Other", please add notes below:**

west bottom parking lot. (draft)

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y - Note 1
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

Note 1. ~~only 2~~ enough lights. since this is a small parking lot. it's enough.

NW corner parking lot near school main entrance. (staff)

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

Sousth side parking lot (staff).

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

Note: The eastern inside of this parking lot are not marked. This can accomodate more vehicles. During fieldwork, we saw 17 veh parked at unmarked spaces.
- Special ed buses come in this parking lot to drop off students.

A. West side middle parking lot. (staff)

B. Student parking lot. SE corner.

PARKING AREAS/ADJACENT DEVELOPMENTS A B

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y Y
	2.	Are the sidewalks/paths designed appropriately?	Y Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y Y Lights are on one side.
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y Y

***For any Result with "N" or "Other", please add notes below:**

Parking: Space lots: 154

ADA: 4 regular + 2 van-accessible = 6

Total = 154 + 6 + 2 = 162.

Only half of the parking lots are parked.

NE corner parking lot. (staff)

PARKING AREAS/ADJACENT DEVELOPMENTS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Do sidewalks/paths connect the street and adjacent land uses?	Y
	2.	Are the sidewalks/paths designed appropriately?	Y
	3.	Are buildings entrances located and designed to be obvious and easily accessible to pedestrians?	Y
Quality, Conditions, and Obstructions	*Use questions for Streets for potential issues on obstructions and protruding objects that apply to sidewalks and walkways at parking areas/adjacent developments*		
	Use questions for Streets for potential issues on surface conditions that apply to sidewalks and walkways at parking areas/adjacent developments		
	1.	Do parked vehicles obstruct pedestrian paths?	N
Continuity and Connectivity	1.	Are pedestrian facilities continuous? Do they provide adequate connections for pedestrian traffic?	Y
	2.	Are transitions of pedestrian facilities between developments/projects adequate?	Y
Lighting	*Use questions for Streets and Street Crossings for potential issues on lighting that apply to sidewalks and walkways at parking areas/adjacent developments*		
Visibility	1.	Are visibility and sight distance adequate?	Y
Access Management	1.	Are travel paths for pedestrians and other vehicle modes clearly delineated at access openings?	Y
	2.	Do drivers look for and yield to pedestrian when turning into and out of driveways?	Y
Traffic Characteristics	1.	Does pedestrian or driver behavior increase the risk of a pedestrian collision?	N
	2.	Are buses, cars, bicycles, and pedestrians separated on the site and provided with their own designated areas for travel?	Y
Signs and Pavement Markings	1.	Are travel paths and crossing points for pedestrians properly signed and/or marked?	Y

***For any Result with "N" or "Other", please add notes below:**

NW/Corner of the intersection Lindley Ave & Victory Blvd. both direction
~~NE~~SW

TRANSIT AREAS

Topic		Question	Result (Y, N, Other or N/A)*
Presence, Design and Placement	1.	Are bus stops sited properly?	Y
	2.	Are safe pedestrian crossings convenient for transit and school bus users?	Y
	3.	Is sight distance to bus stops adequate?	Y
	4.	Are shelters appropriately designed and placed for pedestrian safety and convenience?	N/A No shelter.
Quality, Conditions, and Obstructions	1.	Is the seating area at a safe and comfortable distance from vehicle and bicycle lanes?	Y
	2.	Do seats (or persons sitting on them) obstruct the sidewalk or reduce its usable width?	N.
	3.	Is a sufficient landing area provided to accommodate waiting passengers, boarding/alighting passengers, and through/bypassing pedestrian traffic at peak times?	Y.
	4.	Is the landing area paved and free of problems such as uneven surfaces, standing water, or steep slopes?	N.
	5.	Is the sidewalk free of temporary/permanent obstructions that constrict its width or block access to the bus stop?	Y
Continuity and Connectivity	1.	Is the nearest crossing opportunity free of potential hazards for pedestrians?	Y
	2.	Are transit stops part of a continuous network of pedestrian facilities?	Y.
	3.	Are transit stops maintained during periods of inclement weather?	Y.
Lighting	1.	Are access ways to transit facilities well-lit to accommodate early-morning, late-afternoon, and evening pedestrian traffic?	Y
Visibility	1.	Are open sight lines maintained between approaching buses and passenger waiting and loading areas?	Y.
Traffic Characteristics	1.	Do pedestrians entering and leaving buses conflict with cars, bicycles, or other pedestrians?	N.
Signs and Pavement Markings	1.	Are appropriate signs and pavement markings provided for school bus and transit stops?	Y.

***For any Result with "N" or "Other", please add notes below:**

APPENDIX C

Selected Photos

Lindley Avenue, looking north; uneven surface on the west side of Lindley Avenue (right); growing vegetation between sidewalk cracks (left), may be difficult to traverse in a wheelchair

Lindley Avenue, looking south; uneven surface on the east side of Lindley Avenue, may be difficult to traverse in a wheelchair

Wynne Avenue, 50 feet north of Kittridge Street; warning sign is defaced and illegible

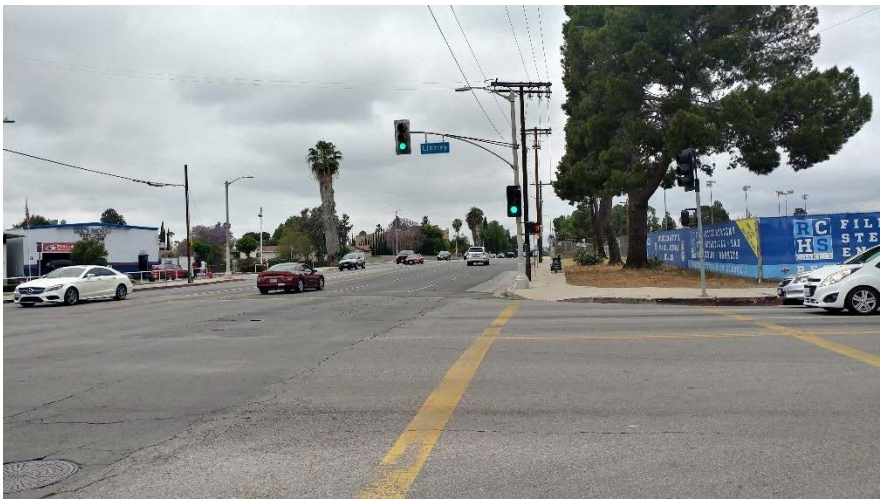
Kittridge Street looking east; uneven surface on the northside of the street, may be difficult to traverse in a wheelchair

Kittridge Street, looking west; uneven surface at staff parking lot driveway, south side of Kittridge Street, may be difficult to traverse in a wheelchair

Lindley Avenue and Kittridge Street; northeast corner; uneven surface due to pavement sinking, may be difficult to access pedestrian push button

Lindley Avenue and Kittridge Street, southwest corner; curb ramp is not flush with connecting sidewalk, may be difficult to traverse in a wheelchair

Lindley Avenue and Kittridge Street, south side; crossing pavement marking is worn, may reduce visibility of crosswalk



Lindley Avenue and Victory Boulevard; tactile strips are absent on all curb ramps, may be difficult for visually-impaired pedestrians to travel through intersection

Lindley Avenue and Victory Boulevard, southwest corner; gutter after curb ramp is not flush with the crossing pavement, may be difficult to traverse in a wheelchair

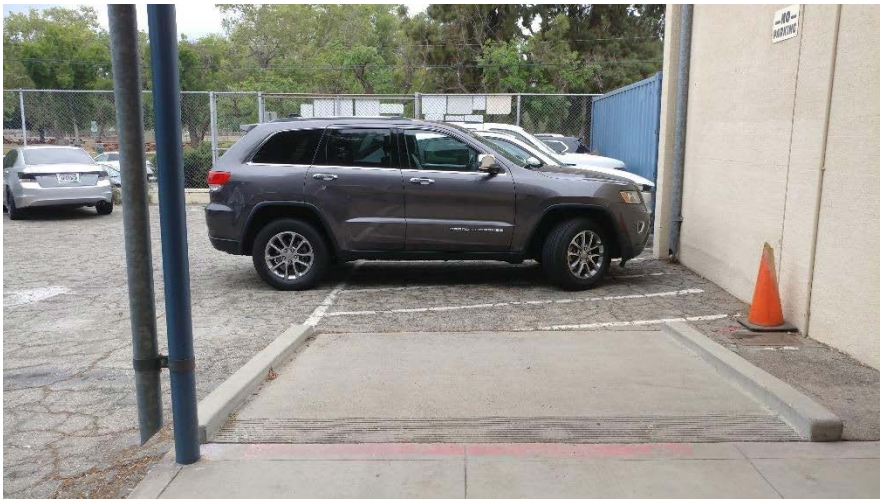
Student parking lot located at southwest corner of Reseda HS; accessible parking pavement marking is worn

Kittridge Street, looking north; no marked crosswalks along Kittridge Street to travel to neighboring street (Chimeneas Avenue, Wynne Avenue, and Nestle Avenue) causing students to cross mid-block creating delay for through vehicles; curb ramps provided but no marked crosswalk

Etiwanda Avenue, looking south; vehicles parking in driveways, blocking sidewalks and creating conflict with through vehicles and pedestrians

Kittridge Street looking east; vehicles and school buses park in No Parking Zone; school buses have to share available curb parking with other vehicles

On-site near south side faculty parking lot; vehicles parking in unmarked spaces



Faculty parking lot located near the southeast corner of Etiwanda Avenue and Kittridge Street; vehicles parked in unmarked spaces near accessible ramps

Minor desire lines created by students near auditorium, indicating possible need for sidewalk

APPENDIX D

Additional Information

24 Hours Traffic Volume

City of Los Angeles

Department of Transportation

RAW DATA LINVIC0422S.rdf

COUNTER ARMANDO

DATE 04/22/2008

START TIME 12:00 AM

LOCATION	**LINDLEY AV AT VICTORY BL**	DAY OF WEEK	TUESDAY	DATE PREPARED	30-Apr-08
INTERSECTION	N/S STREET	DOT DISTRICT	WEST VALLEY	SENSOR LAYOUT	'11'
DESCRIPTION	LINVIC	WEATHER	CLEAR	SENSOR SPACING	'0.0'

	NORTH / WEST BOUND					*SOUTH / EAST BOUND*					
TIME	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	1ST QTR	2ND QTR	3RD QTR	4TH QTR	HOUR TOTAL	TOTAL
12 AM	16	10	13	9	48	14	12	9	4	39	87
1 AM	11	10	9	7	37	11	10	6	6	33	70
2 AM	3	2	5	2	12	8	6	3	3	20	32
3 AM	1	2	0	2	5	1	2	5	3	11	16
4 AM	4	3	5	6	18	3	5	14	21	43	61
5 AM	6	14	17	30	67	12	27	44	69	152	219
6 AM	29	36	66	67	198	77	113	178	219	587	785
7 AM	103	175	223	247	748	208	299	335	329	1171	1919
8 AM	219	189	187	163	758	272	251	234	226	983	1741
9 AM	155	155	147	134	591	166	170	154	139	629	1220
10 AM	134	106	123	119	482	139	128	130	124	521	1003
11 AM	110	107	129	129	475	117	124	119	135	495	970
12 NN	149	120	116	127	512	131	139	141	151	562	1074
1 PM	162	138	153	198	651	139	212	192	178	721	1372
2 PM	182	143	156	218	699	177	156	169	145	647	1346
3 PM	173	180	239	212	804	173	171	156	164	664	1468
4 PM	237	204	214	215	870	186	165	153	201	705	1575
5 PM	285	273	246	270	1074	212	195	179	197	783	1857
6 PM	217	196	188	152	753	179	193	178	169	719	1472
7 PM	163	132	132	113	540	147	140	98	118	503	1043
8 PM	98	97	77	65	337	120	92	107	86	405	742
9 PM	80	51	53	45	229	95	101	85	75	356	585
10 PM	39	34	47	34	154	64	61	53	30	208	362
11 PM	31	31	25	10	97	27	21	33	13	94	191

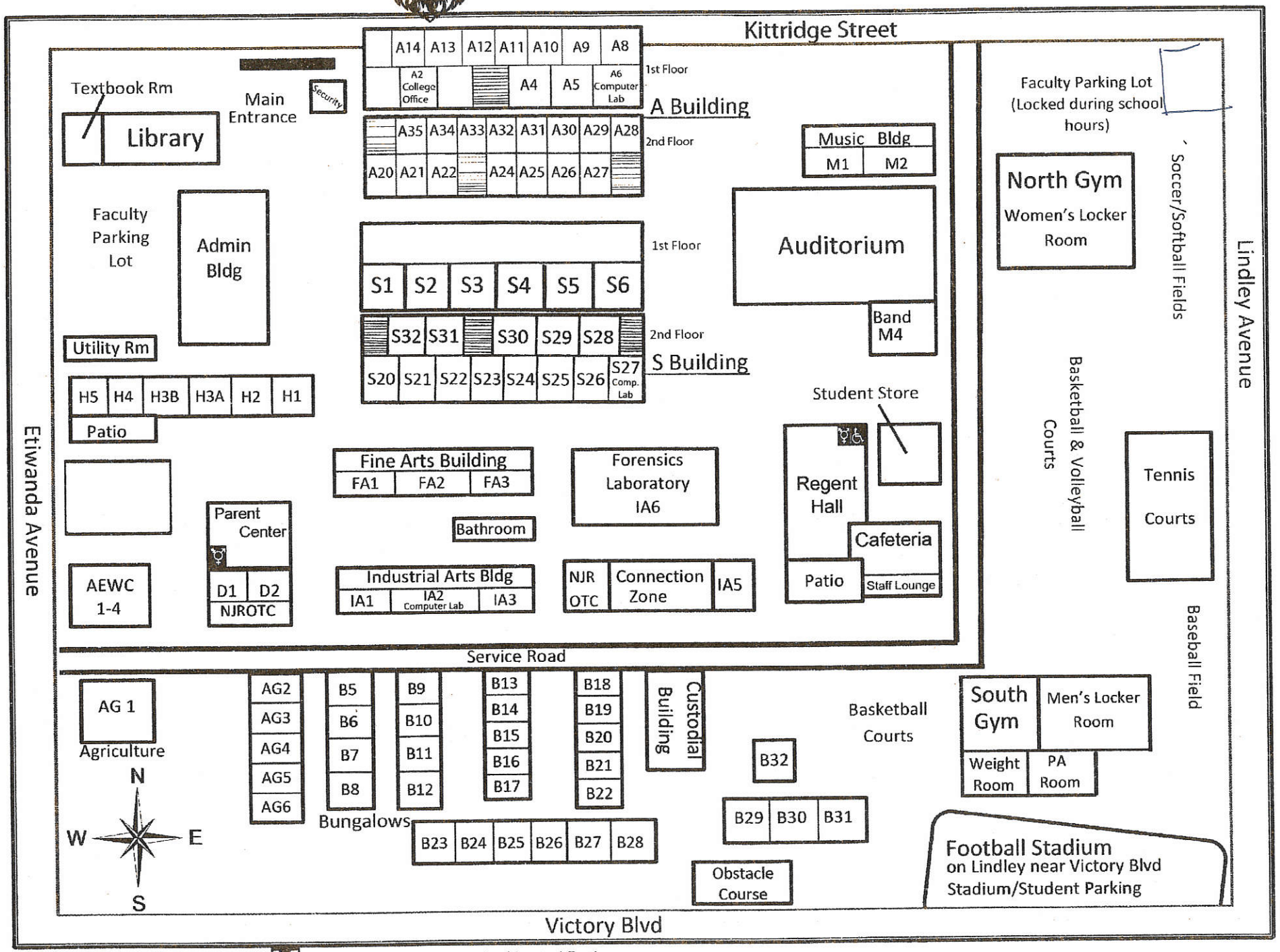
FIRST 12-HOURS PEAK QUARTER COUNT	**247**	7 AM	4TH	**335**	7 AM	3RD
LAST 12-HOURS PEAK QUARTER COUNT	**285**	5 PM	1ST	**212**	1 PM	2ND
24 HOUR VEHICLES TOTAL		10159			11051	21210
TOTAL VEHICLES STANDARD DEVIATION (STD)	[+,-]	321.33		[+,-]	319.63	623.59

PEAK HOURS VOLUME

	NORTH / WEST BOUND			*SOUTH / EAST BOUND*			*BOTH DIRECTIONS*	
	PEAK HOUR		VOLUME VEHICLES	PEAK HOUR		VOLUME VEHICLES	PEAK HOUR	VOLUME VEHICLES
FIRST 12H PEAK	8 AM		**758**	7 AM		**1171**	1171	**1929**
LAST 12H PEAK	5 PM		**1074**	5 PM		**783**	1074	**1857**
FIRST 12H PEAK STD		[+,-]	**19.87**		[+,-]	**50.80**		**70.66**
LAST 12H PEAK STD		[+,-]	**14.15**		[+,-]	**11.69**		**25.84**

PROGRAM BY LADOT

Reseda High School Site Map



-- Adult & Student Gender Neutral Bathroom

-- Handicapped Accessible

APPENDIX L

Traffic Study

1100 Corporate Center Drive, Suite 201, Monterey Park, CA 91754
T: 323.260.4703 | F: 323.260.4705 | www.koacorp.com
MONTEREY PARK ORANGE ONTARIO SAN DIEGO

TECHNICAL MEMORANDUM

Date: July 3, 2019

To Lynn Kaufman – Impact Sciences

From: Brian Marchetti, AICP

Subject: Traffic/Circulation Analysis – Reseda High School Comprehensive Modernization Project

---

Introduction

This traffic report was produced for the Los Angeles School District (LAUSD), under a contract with Impact Sciences. The report provides an area intersection level of service (LOS) analyses, and a vehicle, pedestrian, and bicyclist volume analysis at those locations. Observations in the field were also made for this report of existing conditions. Those observations were then compared to findings and conclusions of the previous Site Circulation Report. Site conditions were reviewed against guidelines defined within the LAUSD document entitled *Traffic and Pedestrian Requirements for New Schools*.

The traffic operations and volumes analysis focuses on project construction period conditions. The school improvement project will not be providing additional student seating capacity or any substantive increase in school programs. The project focuses on improvement of existing facilities.

Collected Data

Traffic counts were conducted at the following intersections on Wednesday May 29, 2019, and included vehicles, pedestrians, and bicyclists. The counts were conducted for all three volume categories during the 7:00 a.m. to 9:00 a.m. and 2:00 p.m. to 4:00 p.m. school activity peak timeframes:

- Reseda Blvd./Kittridge St.
- Etiwanda Ave./Kittridge St.
- Wynne Ave./ Kittridge St.
- Lindley Ave./Kittridge St.
- Reseda Blvd./Victory Blvd.
- Lindley Ave/Victory Blvd.

The peak-hour turning movement figures and other report figures are provided in Attachment A:

- Figure 1 – Study Intersection Lane and Control Configurations

- Figure 2 – Existing AM/PM Turning Movement Volumes
- Figure 3 – Existing AM Pedestrian Crossing Volumes
- Figure 4 – Existing PM Pedestrian Crossing Volumes
- Figure 5 – Existing AM/PM Bicycle Volumes
- Figure 6 – Future No-Project AM/PM Turning Movement Volumes
- Figure 7 – Construction Trips Distribution
- Figure 8 – Construction Trips AM/PM Assignment
- Figure 9 – Future with Project AM/PM Construction Turning Movement Volumes

Analysis of Existing Intersection Operations

The traffic counts were conducted when the high school was in session, and the AM count period overlapped the inbound student travel timeframe to the school while the PM count period overlapped the outbound student travel timeframe. The vehicle volume counts, and existing approach lane configurations and traffic controls, at the signalized study intersections were applied to City of Los Angeles Department of Transportation (LADOT) Critical Movement Analysis (CMA) worksheets. For the two unsignalized study intersections, a Highway Capacity Manual analysis was applied. The existing level of service (LOS) output that resulted from this analysis is summarized in Table 1.

TABLE 1 – EXISTING STUDY AREA INTERSECTION OPERATIONS

	Study Intersections	AM Peak		PM Peak	
		V/C or Delay	LOS	V/C or Delay	LOS
1	Reseda Blvd/ Kittridge St	0.405	A	0.405	A
2	Etiwanda Ave / Kittridge St*	9.5	A	8.2	A
3	Wynne Ave /Kittridge St*	8.9	A	8.1	A
4	Lindley Ave/ Kittridge St	0.609	B	0.352	A
5	Lindley Ave / Victory Blvd	0.794	C	0.782	C
6	Reseda Blvd / Victory Blvd	0.765	C	0.629	B

** All-way stop intersection, analysis was based on HCM methodology. Values denote delay per vehicle in seconds.*

All of the study intersections operate at good LOS values. The worst-case LOS values from the analysis were at the intersections of Lindley Avenue/Kittridge Street and Lindley Avenue/Victory Blvd., where the values were at C.

The existing lane configurations and traffic controls at the study intersections are illustrated on Figure 1 of Attachment A. The vehicle turning movement volumes are illustrated on Figure 2. The LOS calculations are provided in Attachment B for signalized intersections and in Attachment C for unsignalized intersections.

Analysis of Pedestrian and Bicycle Volumes

The existing pedestrian crossing volumes at the study intersections are illustrated on Figure 3 (AM peak) and Figure 4 (PM peak) of Attachment A.

The highest AM period pedestrian volumes occur at the intersection of Etiwanda Avenue/Kittridge Street, at the northwest corner of the high school campus, where in the peak hour 442 pedestrians crossed at the south leg and 394 pedestrians crossed at the west leg. The second highest volumes occur at the intersection of Lindley Avenue/Kittridge Street, at the northeast corner of the campus, where in the peak hour 106 pedestrians crossed at the south leg. The next highest volumes occurred at the intersection of Reseda Blvd./Victory Blvd., to the southwest of the school site.

The highest PM period pedestrian volumes occurred in generally the same pattern as the AM volumes. The highest PM volumes occurred at the intersection of Etiwanda Avenue/Kittridge Street where in the peak hour 444 pedestrians crossed at the south leg and 343 pedestrians crossed at the west leg. The second highest volumes occur at the intersection of Reseda Blvd./Victory Blvd., where in the peak hour 159 pedestrians crossed at the west leg. The next highest volumes occurred at the intersection of Lindley Avenue/Kittridge Street.

The existing AM and PM peak-hour bicycle volumes at the study intersections are illustrated on Figure 5 of Attachment A. The bicycle volumes are generally low at the study intersections, with the highest turning volumes at six in the AM period at the southbound left-turn movement of the intersection of Etiwanda Avenue/Kittridge Street and at the southbound thru movement of the intersection of Reseda Blvd./Victory Blvd. PM-period volumes in the opposite travel direction are approximately the same.

Field Observations

This section provides a review of site access configurations and access issues, based on guidelines defined within the LAUSD policy document entitled *Traffic and Pedestrian Requirements for New Schools*. It is also based on the previous *Site Circulation Report* conducted for the campus by LIN Consulting, Inc., dated October 17, 2018. There would be no significant impacts in these areas, based on the analysis discussed here.

The site has a main entrance on the north side of campus, but has emergency gates on other sides of the campus, satisfying the guideline of providing multiple points of egress for emergencies.

The previous report addressed a potential designation of a student pick-up/drop-off area on Kittridge Street, separate in designation from the school bus zone. There is no marked school bus drop off area, but rather a no parking area is signed for this purpose. These designations could be improved, including demarcation of a parent vehicle pick-up/drop-off area at the curb. Such improvements have not been made but should be considered by LAUSD.

The 2018 *Site Circulation Report* identified a lack of marked crosswalks on Kittridge Street at Chimineas Avenue, Wynne Avenue, and Nestle Avenue, along the north side of the campus. The intersection of Etiwanda Avenue and Kittridge Street, the intersection of Lindley Avenue and Kittridge Street at the northeast corner of the campus, and the intersection of Lindley Avenue and Victory Blvd. at the southeast

corner of the campus, have existing striped yellow crosswalks. The crosswalks do not have high-visibility striping but rather have single striped lines that denote the edges of the crosswalks. The intersection of Wynne Avenue and Kittridge Street is an all-way stop-sign controlled intersection at approximately the mid-point of the north frontage of the campus. At this location, no crosswalk striping is provided. A restriping of the two existing sets of crosswalks on Kittridge Avenue, and the addition of crosswalk striping at the Wynne Avenue intersection, is recommended for consideration by LAUSD. High visibility crosswalk striping can be used for these improvements, to provide up-to-date safety improvements for crossing students.

An opportunity identified in the previous report was the potential need to repair or repave uneven sidewalk surfaces on Kittridge Street and Lindley Avenue. The continued state of these sidewalks was confirmed in the field. On Lindley Avenue the sidewalk is broken in places on the east side of street and cracked with heavy weed growth on the west side. On Kittridge Street, the sidewalk is broken/cracked in places on both sides of the roadway. Repairing these sidewalks through coordination with the City of Los Angeles should be considered by LAUSD.

LAUSD could consider using the underutilized student parking lot at the corner of Lindley Avenue and Victory Boulevard as a possible location for a new pick-up/drop-off facility, as recommended in the previous report.

Some of these recommended measures, if implemented, would help to satisfy the LAUSD guideline of placing school vehicle access points on local roadways (or on-site) to not impede traffic on major roadways. Some of these measures would help to satisfy the LAUSD guideline on bus loading and passenger/car loading areas.

Analysis of Construction Period Level of Service and Impacts

The peak of construction would occur in the year 2022, when demolition is occurring and truck hauling trips would be high. The number of construction employees during this construction period was used as an input, as was the number of construction truck trips for hauling away construction debris. The site construction employee population number of 15 was applied, and inbound AM and outbound PM peak-hour trips were assumed for all employees. The daily construction round truck trip number of 493 was multiplied by two for one-way trips and a passenger car equivalency factor of 2.5 to provide for the additional effects on capacity and lower operating speeds. Peak hour totals for trucks were calculated as being one-eighth of the daily total, assuming an eight-hour work day.

The construction-period trip generation calculations are provided in Table 2.

TABLE 2 – PROJECT CONSTRUCTION PERIOD TRIP GENERATION

Land Use	Average Daily Trips	AM Peak			PM Peak		
		Total	In	Out	Total	In	Out
Field Personnel	30	15	15	0	15	0	15
Truck Trips	2465	308	154	154	310	155	155
Total	**2,495**	**323**	**169**	**154**	**325**	**155**	**170**

The year-2019 traffic counts were factored upward to year-2022 volumes based on a conservative annual growth rate of two percent, resulting in a total applied growth of six percent. This defined future no-project conditions. Project trip generation was added to define future with-project conditions. The construction-period intersection operations analysis is summarized in Table 3.

TABLE 3 – FUTURE WITH-PROJECT CONSTRUCTION STUDY AREA INTERSECTION OPERATIONS

Study Intersections		Peak Hour	Future 2022 No Project V/C	Future 2022 No Project LOS	Future 2022 With Project V/C	Future 2022 With Project LOS	Change	Sig Impact?
1	Reseda Blvd/ Kittridge St	AM	0.435	A	0.491	A	0.056	No
		PM	0.435	A	0.499	A	0.064	No
2	Etiwanda Ave / Kittridge St*	AM	9.8	A	13.2	B	3.400	No
		PM	8.3	A	10.3	B	2.000	No
3	Wynne Ave /Kittridge St*	AM	9.1	A	10.2	B	1.100	No
		PM	8.2	A	9.0	A	0.800	No
4	Lindley Ave/ Kittridge St	AM	0.653	B	0.705	C	0.052	No
		PM	0.379	A	0.421	A	0.042	No
5	Reseda Ave/ Victory Blvd	AM	0.849	D	0.895	D	0.046	No
		PM	0.836	D	0.883	D	0.047	No
6	Lindley St / Reseda Ave	AM	0.818	D	0.886	D	0.068	No
		PM	0.673	B	0.691	B	0.018	No

** All-way stop intersection, analysis was based on HCM methodology. Values denote delay per vehicle in seconds.*

The causing or worsening of LOS values of E or F at the study intersections due to project construction activities was defined to be significant for impact determinations. Worst-case LOS values of D would occur at the intersections of Reseda Avenue/Victory Blvd. (AM and PM peak hours) and at the intersection of Lindley Street/Reseda Avenue (AM peak hour). The LOS D conditions would be present in the future period, with or without the construction activities. LOS E conditions would not result, however.

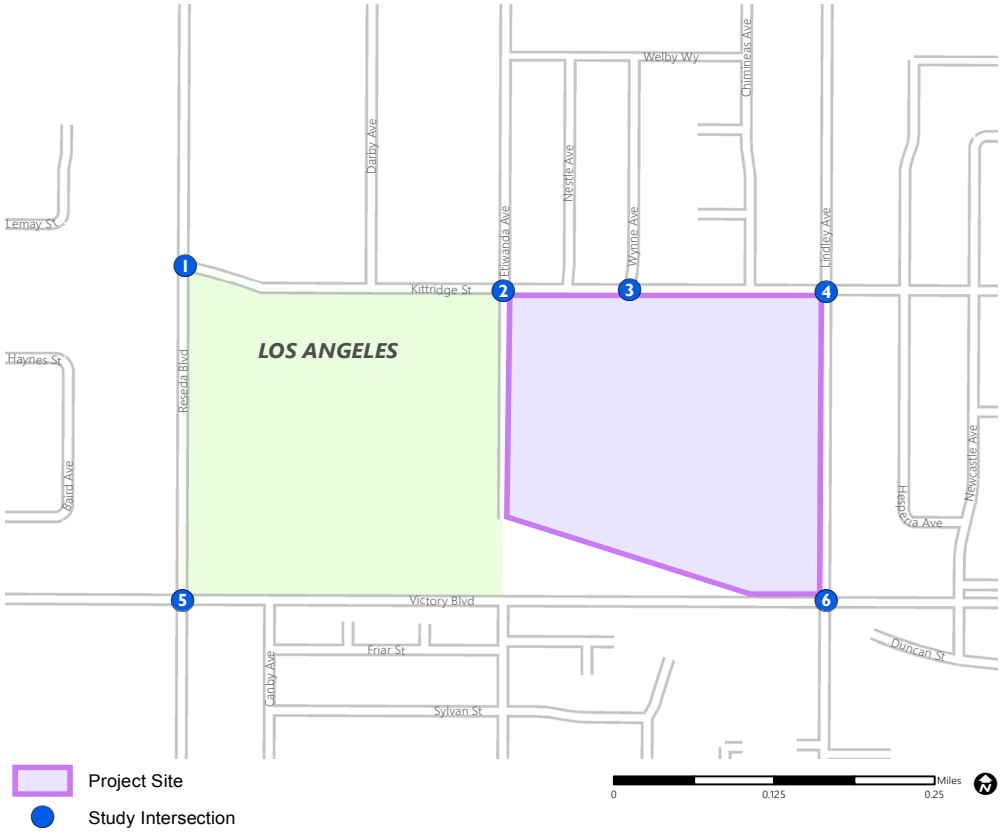
No significant project impacts would therefore occur during the construction period.

ATTACHMENT A –
STUDY INTERSECTION CONFIGURATION AND VOLUME FIGURES

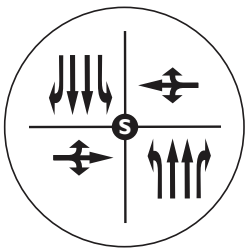
FIGURE 1

RESEDA HIGH SCHOOL TRAFFIC STUDY

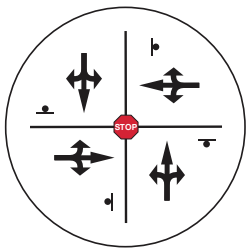
Lane and Control Configurations



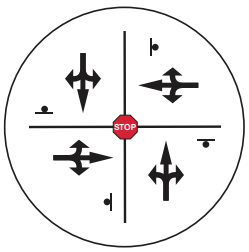
1 Reseda Boulevard & Kittridge Street



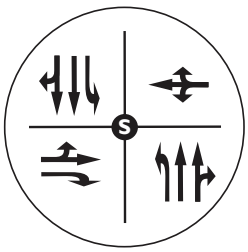
2 Etiwanda Avenue & Kittridge Street



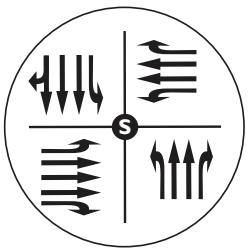
3 Wynne Avenue & Kittridge Street



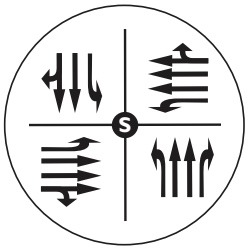
4 Lindley Avenue & Kittridge Street



5 Reseda Boulevard & Victory Boulevard



6 Lindley Avenue & Victory Boulevard



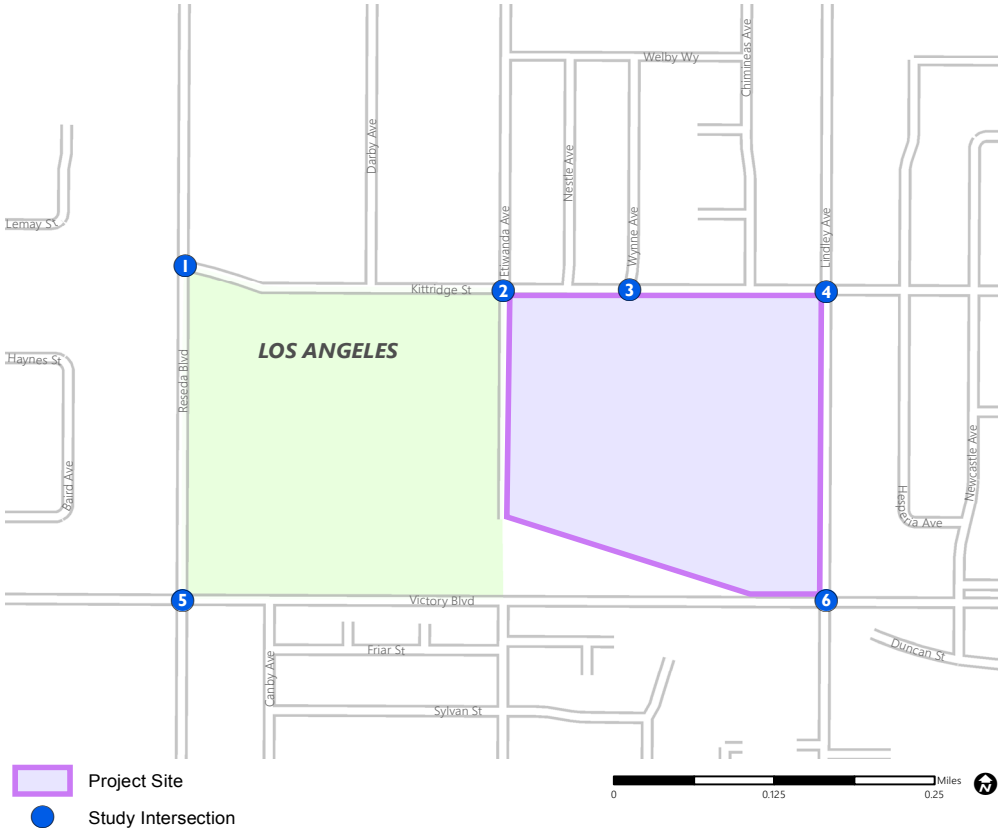
LANE CONFIGURATION

- Signalized Intersection
- Intersection Lane Geometry
- Stop Sign Controlled Intersection
- Stop Sign Location
- * Lanes are channelized

FIGURE 2

RESEDA HIGH SCHOOL TRAFFIC STUDY

Existing AM/PM Turning Movement Volumes



1 Reseda Boulevard & Kittridge Street

0 / 0	953 / 818	79 / 45
	Signal	
0 / 5	2 / 0	760 / 1055
0 / 0		115 / 97
0 / 12		

		123 / 78
		1 / 0
		154 / 101

2 Etiwanda Avenue & Kittridge Street

55 / 42	51 / 31	97 / 61
	All-way Stop	
30 / 23	25 / 17	38 / 36
102 / 80		17 / 30
49 / 17		

		65 / 56
		131 / 79
		20 / 21

3 Wynne Avenue & Kittridge Street

9 / 16	41 / 17	
	All-way Stop	
21 / 23		
213 / 152		

		29 / 27
		214 / 144

4 Lindley Avenue & Kittridge Street

98 / 55	1193 / 711	96 / 26
	Signal	
112 / 100	92 / 102	692 / 909
58 / 24		20 / 31
116 / 108		

		86 / 40
		92 / 24
		36 / 18

5 Reseda Boulevard & Victory Boulevard

188 / 149	744 / 591	160 / 133
	Signal	
176 / 160	103 / 101	549 / 810
1298 / 1279		145 / 146
65 / 122		

		139 / 184
		1236 / 1029
		164 / 169

6 Lindley Avenue & Victory Boulevard

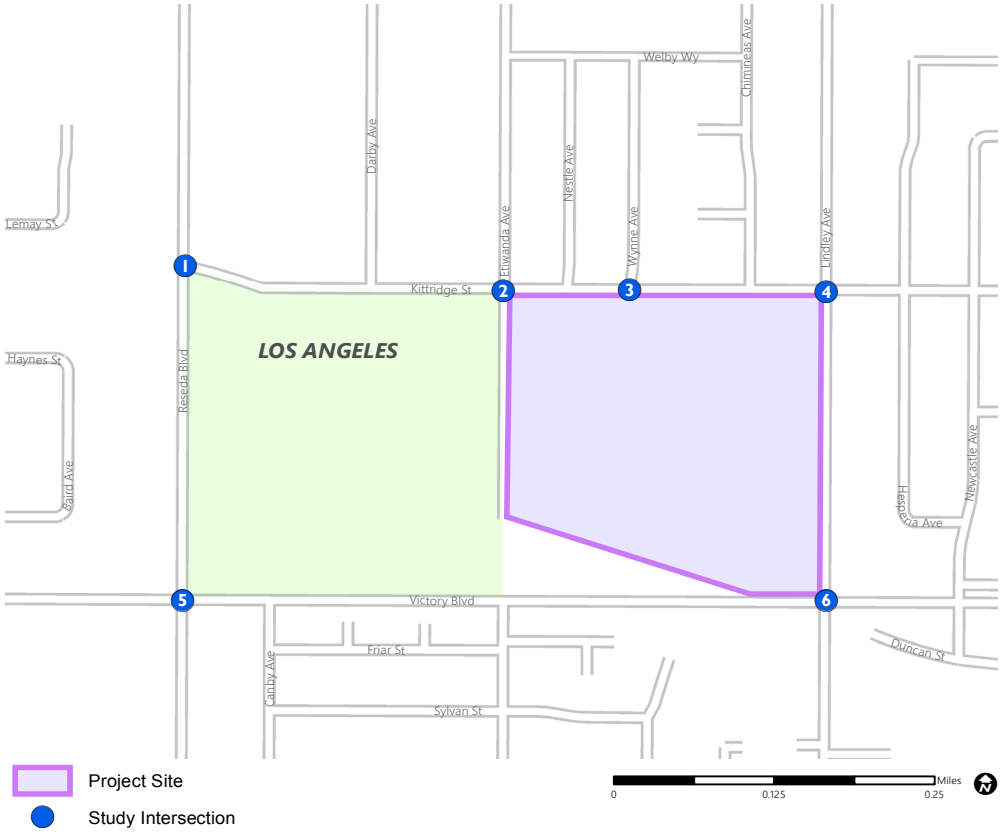
169 / 130	1049 / 595	144 / 118
	Signal	
89 / 113	62 / 93	599 / 768
1381 / 1390		164 / 182
145 / 101		

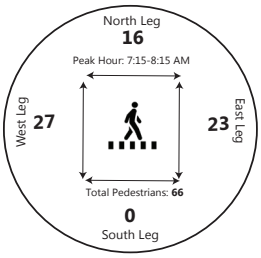
		122 / 163
		1493 / 1117
		118 / 94

FIGURE 3

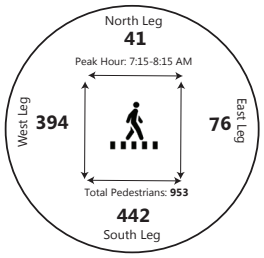
RESEDA HIGH SCHOOL TRAFFIC STUDY

Existing AM Pedestrian Crossing Volumes

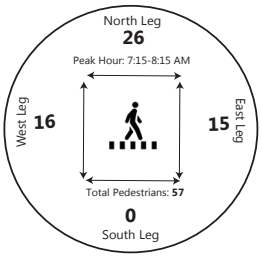




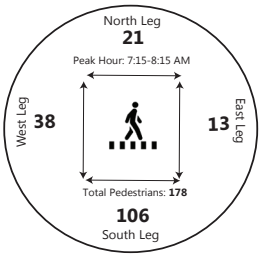
1. Reseda Boulevard & Kittridge Street



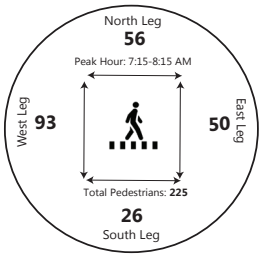
2. Etiwanda Avenue & Kittridge Street



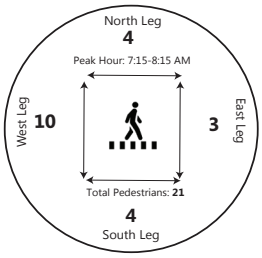
3. Wynne Avenue & Kittridge Street



4. Lindley Avenue & Kittridge Street



5. Reseda Boulevard & Victory Boulevard

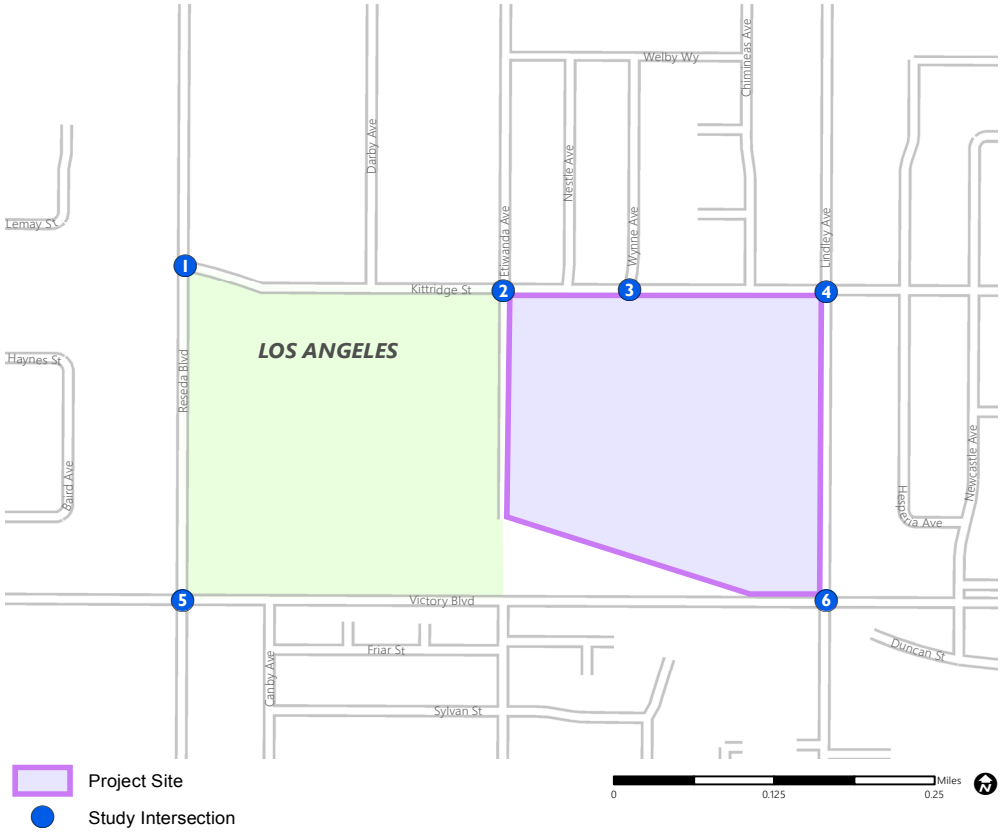


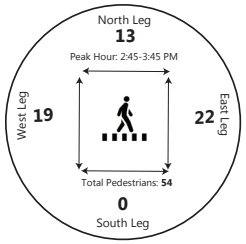
6. Lindley Avenue & Victory Boulevard

FIGURE 4

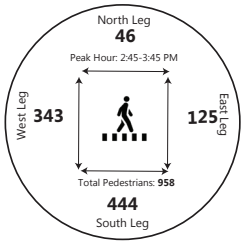
RESEDA HIGH SCHOOL TRAFFIC STUDY

Existing PM Pedestrian Crossing Volumes

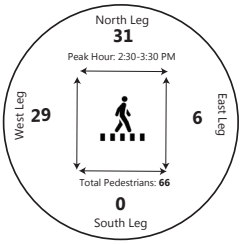




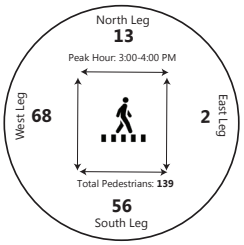
1. Reseda Boulevard & Kittridge Street



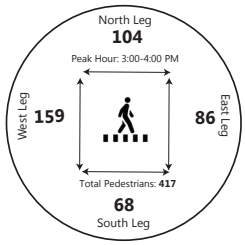
2. Etiwanda Avenue & Kittridge Street



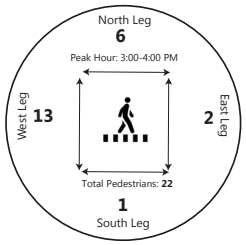
3. Wynne Avenue & Kittridge Street



4. Lindley & Kittridge Street



5. Reseda Boulevard & Victory Boulevard

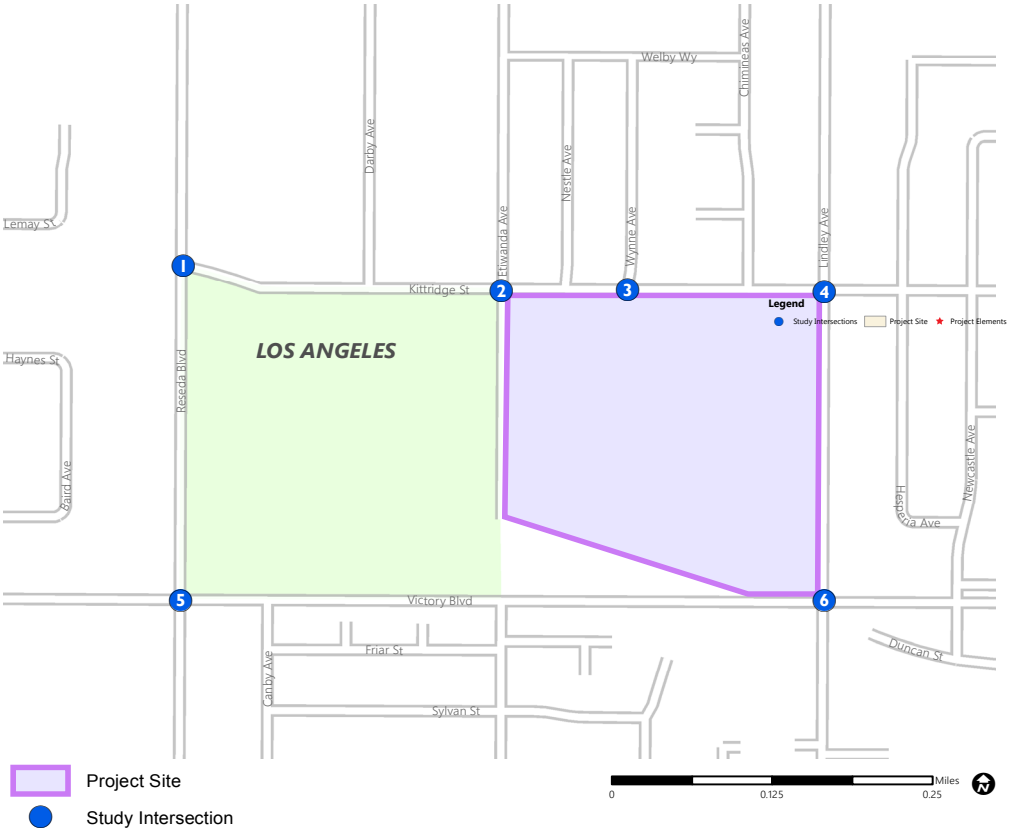


6. Lindley Avenue & Victory Boulevard

FIGURE 5

RESEDA HIGH SCHOOL TRAFFIC STUDY

Existing AM/PM Bicycle Volumes



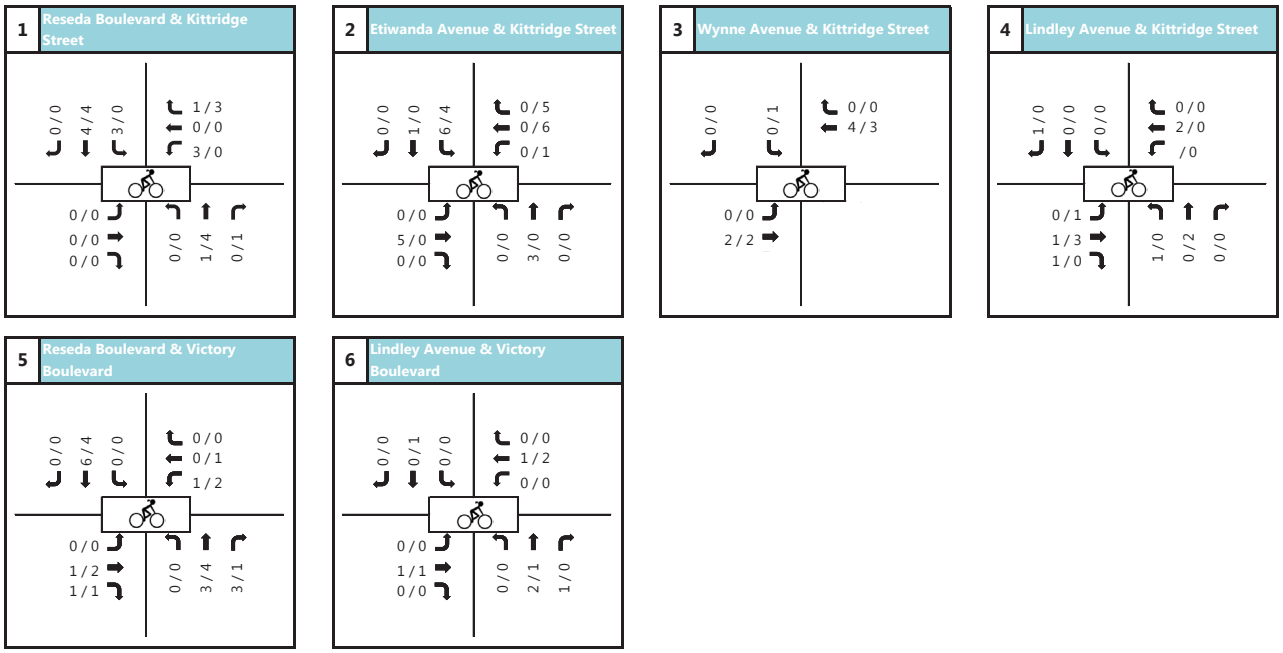
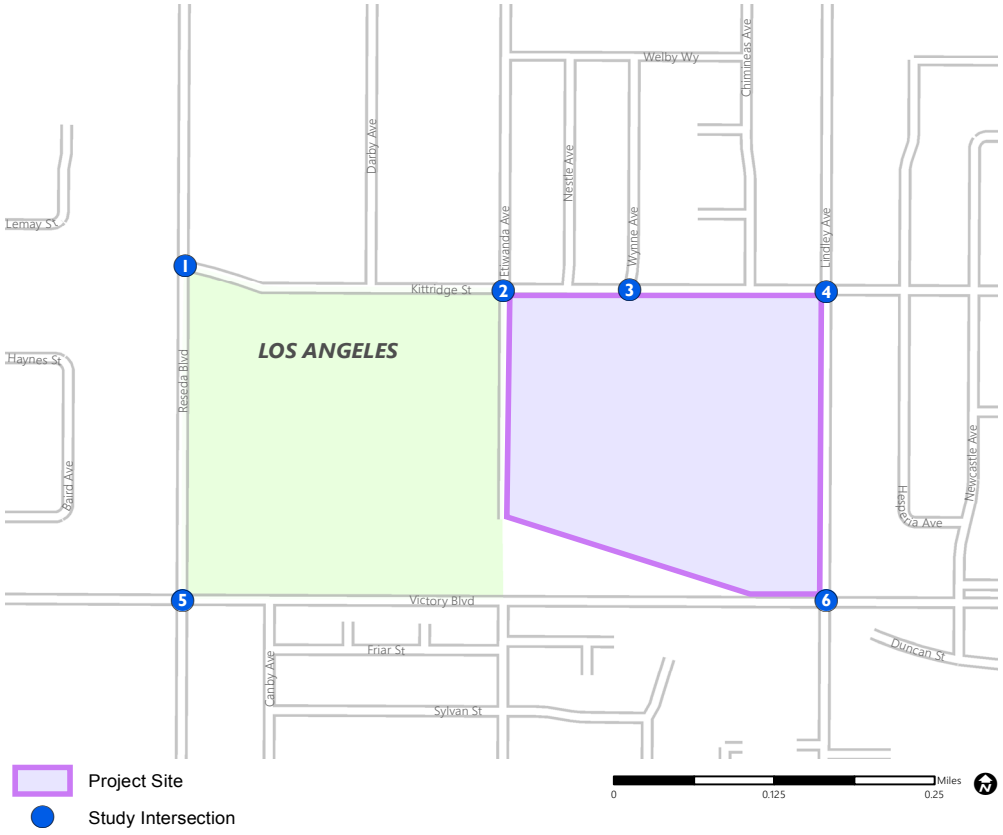


FIGURE 6

RESEDA HIGH SCHOOL TRAFFIC STUDY

FUTURE NO-PROJECT AM/PM TURNING MOVEMENT VOLUMES



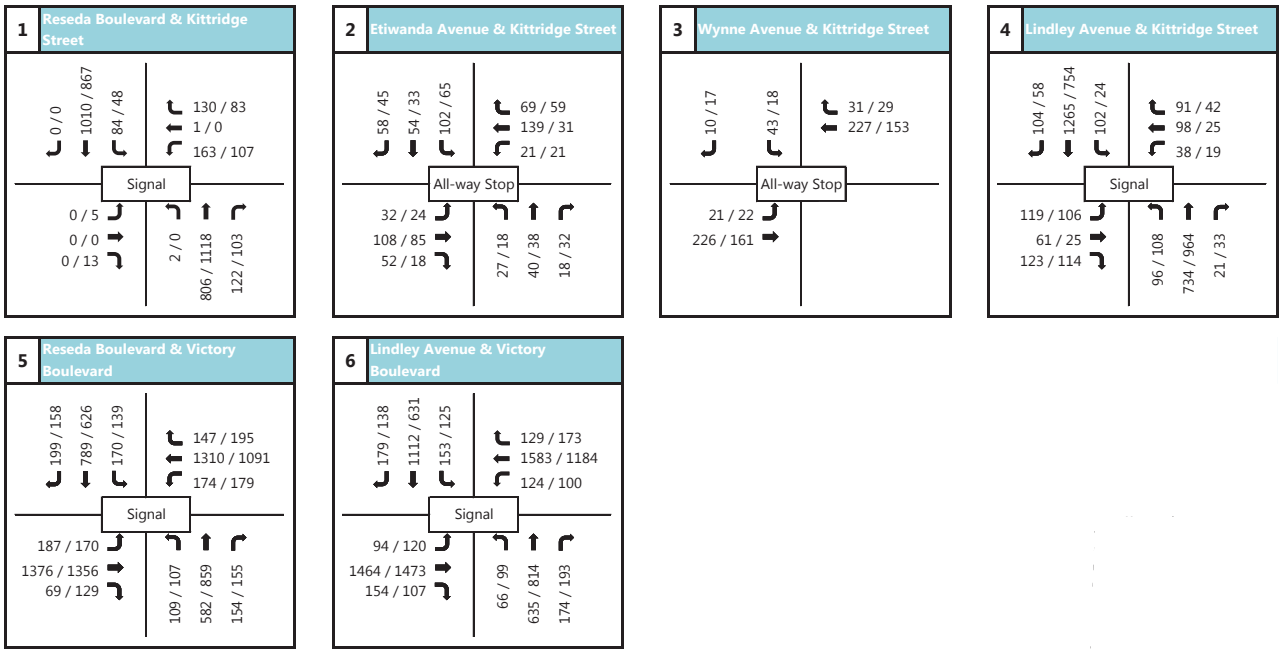
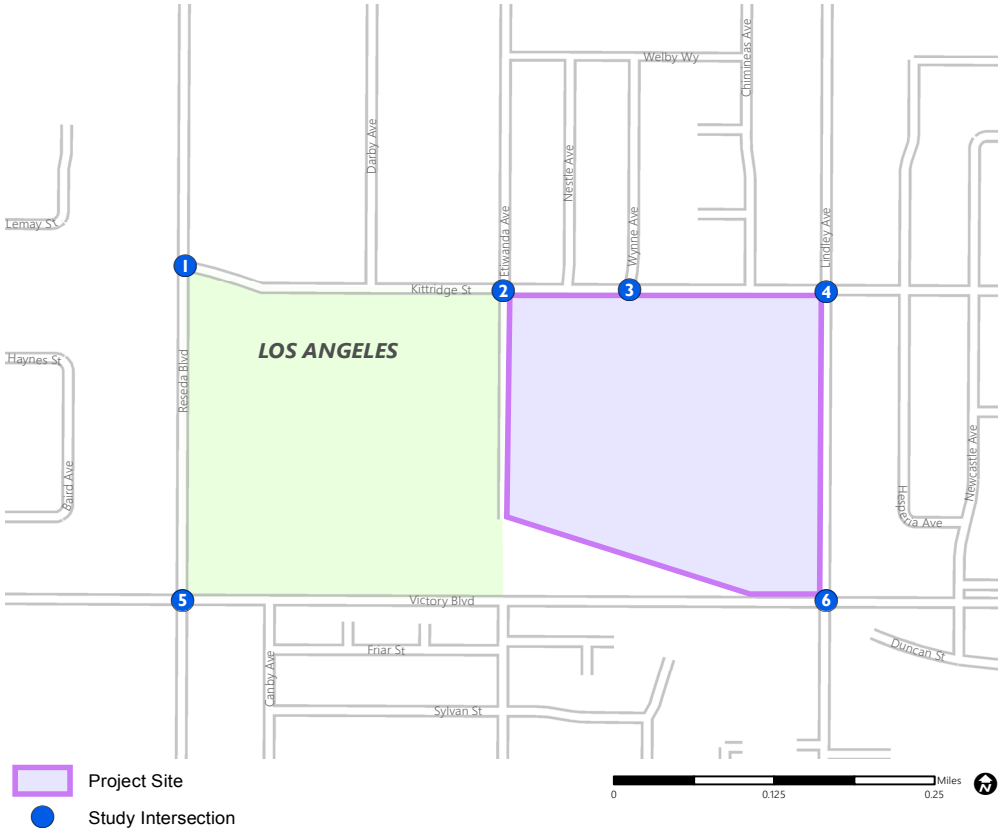


FIGURE 7

RESEDA HIGH SCHOOL TRAFFIC STUDY

Construction Trips Distribution



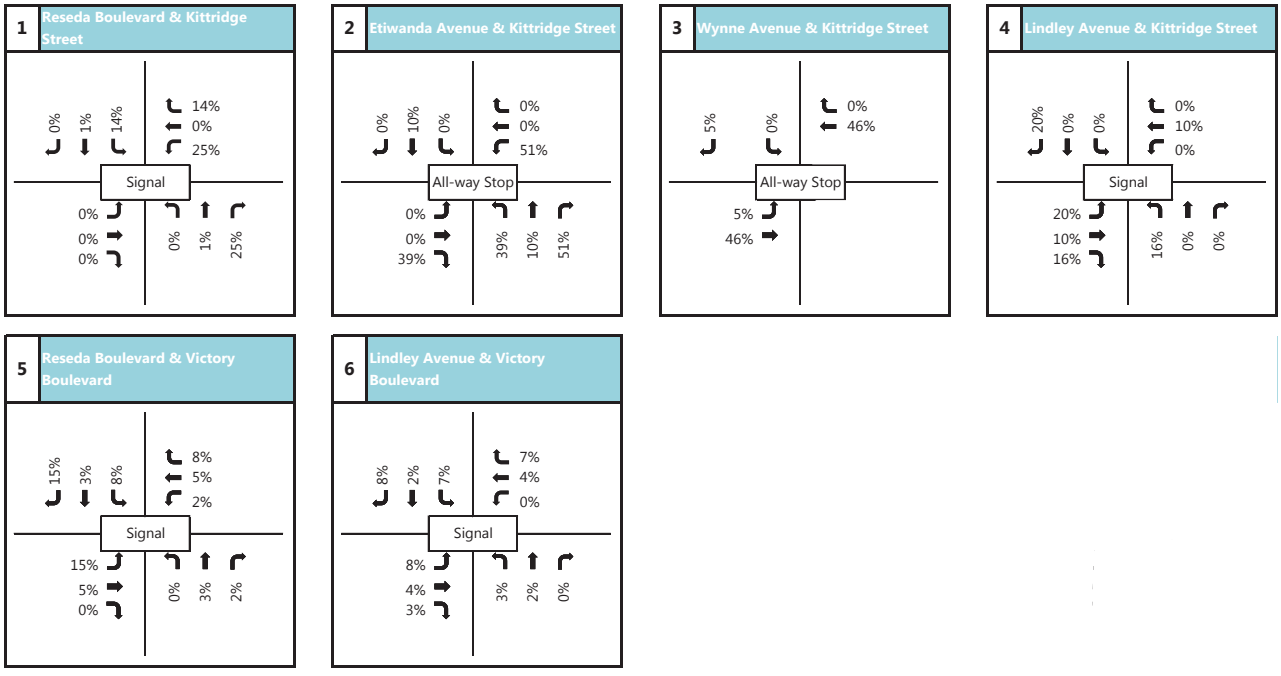
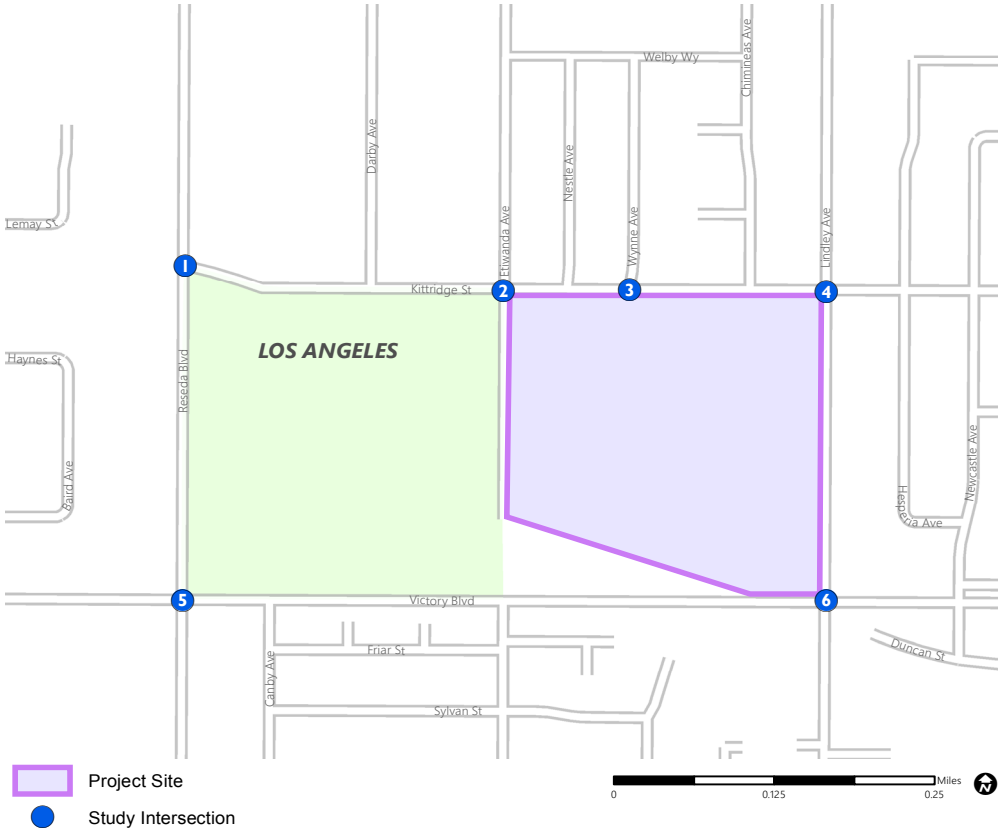


FIGURE 8

RESEDA HIGH SCHOOL TRAFFIC STUDY

Construction Trips AM/PM Assignment



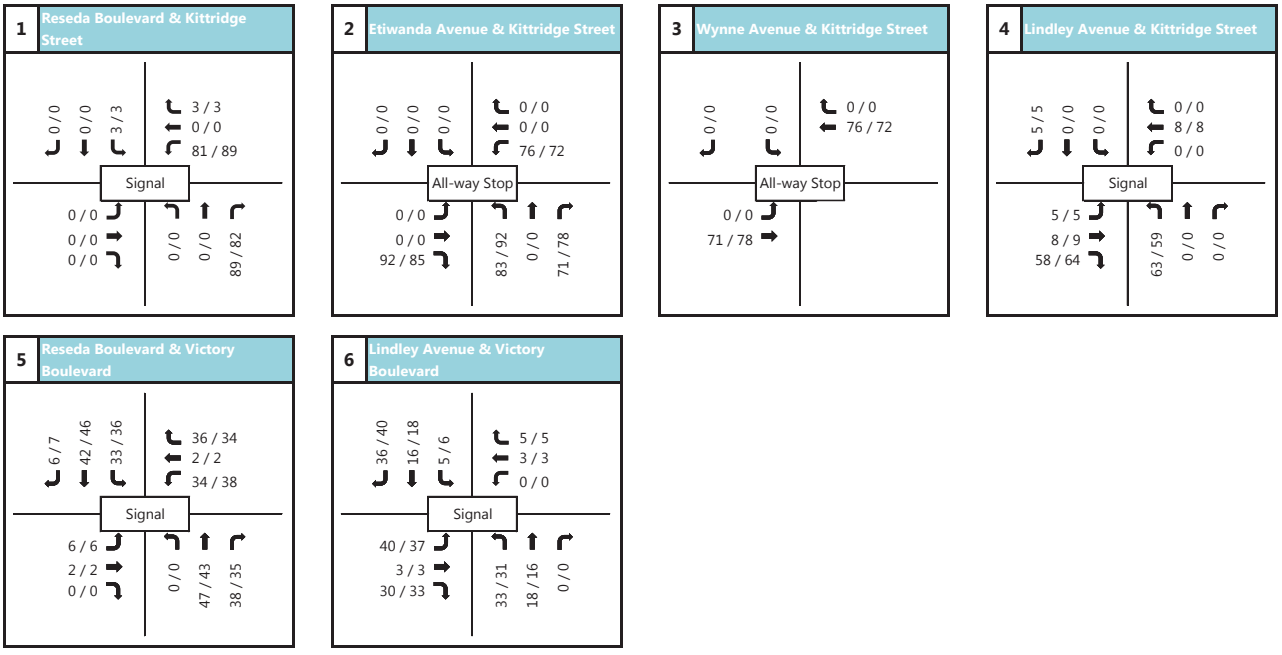
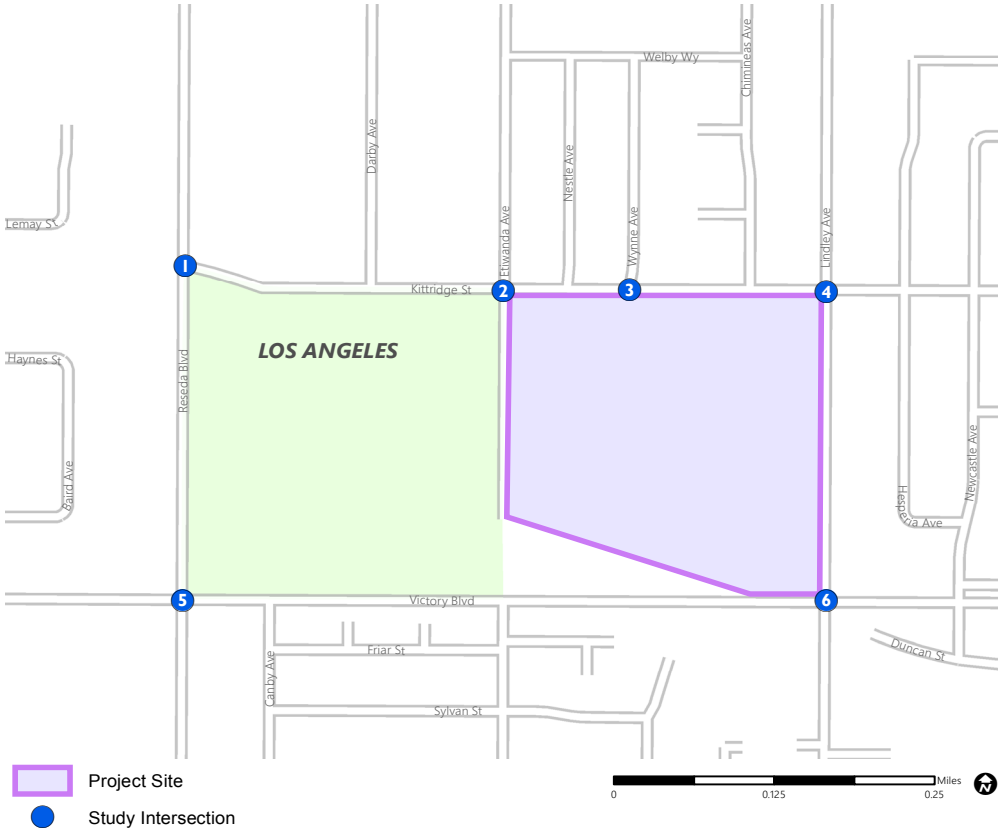
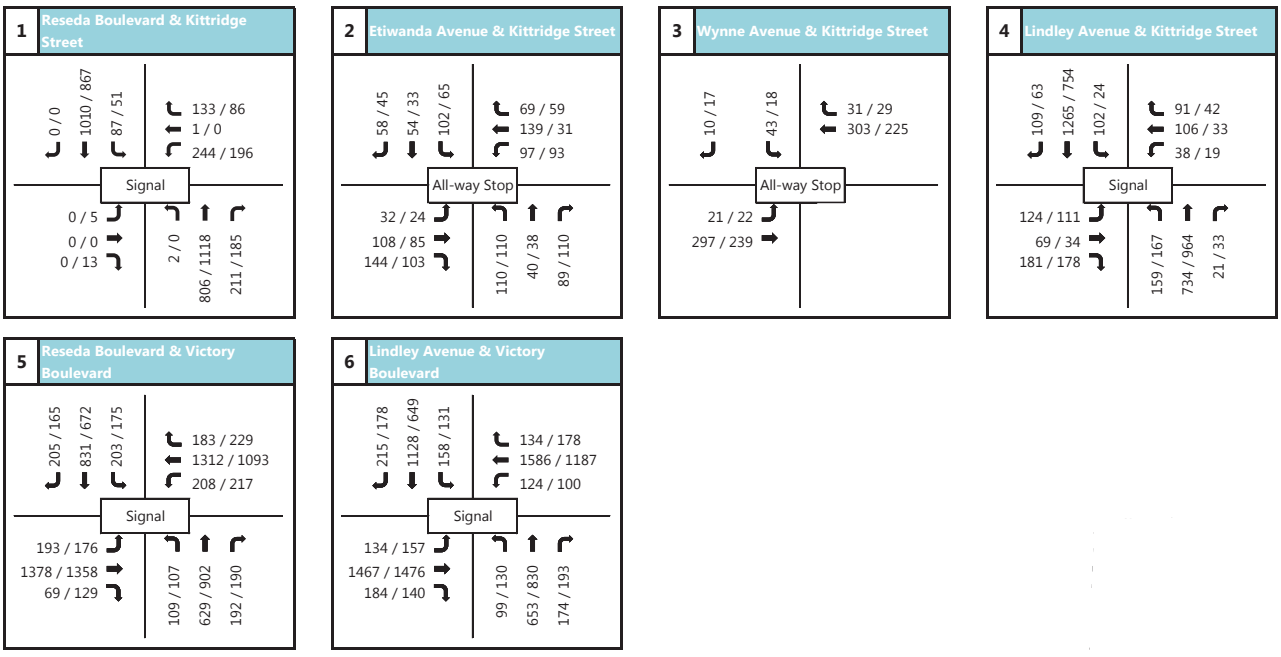


FIGURE 9

RESEDA HIGH SCHOOL TRAFFIC STUDY

Future with Project AM/PM Construction Turning Movement Volumes





ATTACHMENT B –
LOS CALCULATION WORKSHEETS –
SIGNALIZED INTERSECTIONS – LADOT CMA

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Reseda Blvd	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
1	East-West Street:	Kittridge St	Projection Year:	2022	Peak Hour:	AM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			2			2				2				2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0				0				0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB--	EB-- 0 WB--	0	NB-- 0 SB--	EB-- 0 WB--	0	NB-- 0 SB--	EB-- 0 WB--		0	NB-- 0 SB--	EB-- 0 WB--		0	NB-- 0 SB--	EB-- 0 WB--		0
ATSAC-1 or ATSAC+ATCS-2?			2			2				2				2				2
Override Capacity			0			0				0				0				0

MOVEMENT		Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	2	1	2	0	2	2	0	2	1	2	0	2	1	2	0	2	1	2
	Left-Through		0							0				0				0	
	Through	760	2	380	0	760	380	0	807	2	404	0	807	2	404	0	807	2	404
	Through-Right		0							0				0				0	
	Right	115	1	115	89	204	204	0	122	1	122	89	211	1	211	0	211	1	211
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	79	1	79	3	82	82	0	84	1	84	3	87	1	87	0	87	1	87
	Left-Through		0							0				0				0	
	Through	953	2	477	0	953	477	0	1011	2	506	0	1011	2	506	0	1011	2	506
	Through-Right		0							0				0				0	
	Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through		0							0				0				0	
	Through	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Through-Right		0							0				0				0	
	Right	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
WESTBOUND	Left	154	0	154	81	235	235	0	163	0	163	81	244	0	244	0	244	0	244
	Left-Through		0							0				0				0	
	Through	1	0	278	0	1	362	0	1	0	295	0	1	0	379	0	1	0	379
	Through-Right		0							0				0				0	
	Right	123	0	0	3	126	0	0	131	0	0	3	134	0	0	0	134	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES			North-South:	479		North-South:	479		North-South:		508		North-South:		508		North-South:		508
			East-West:	278		East-West:	362		East-West:		295		East-West:		379		East-West:		379
			SUM:	757		SUM:	841		SUM:		803		SUM:		887		SUM:		887
VOLUME/CAPACITY (V/C) RATIO:				0.505			0.561				0.535				0.591				0.591
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.405			0.461				0.435				0.491				0.491
LEVEL OF SERVICE (LOS):				A			A				A				A				A

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.056

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.056

Significant impacted? NO

Δ*v/c* after mitigation: 0.056

Fully mitigated? N/A

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Reseda Blvd	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
1	East-West Street:	Kittridge St	Projection Year:	2022	Peak Hour:	PM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Left-Through		0							0				0				0	
Through	1055	2	528	0	1055	528	0	1120	2	560	0	1120	2	560	0	1120	2	560
Through-Right		0							0				0				0	
Right	97	1	97	82	179	179	0	103	1	103	82	185	1	185	0	185	1	185
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	45	1	45	3	48	48	0	48	1	48	3	51	1	51	0	51	1	51
Left-Through		0							0				0				0	
Through	818	2	409	0	818	409	0	868	2	434	0	868	2	434	0	868	2	434
Through-Right		0							0				0				0	
Right	0	1	0	0	0	0	0	0	1	0	0	0	1	0	0	0	1	0
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	5	0	5	0	5	5	0	5	0	5	0	5	0	5	0	5	0	5
Left-Through		0							0				0				0	
Through	0	0	17	0	0	17	0	0	0	18	0	0	0	18	0	0	0	18
Through-Right		0							0				0				0	
Right	12	0	0	0	12	0	0	13	0	0	0	13	0	0	0	13	0	0
Left-Through-Right		1							1				1				1	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	101	0	101	89	190	190	0	107	0	107	89	196	0	196	0	196	0	196
Left-Through		0							0				0				0	
Through	0	0	179	0	0	271	0	0	0	190	0	0	0	282	0	0	0	282
Through-Right		0							0				0				0	
Right	78	0	0	3	81	0	0	83	0	0	3	86	0	0	0	86	0	0
Left-Through-Right		1							1				1				1	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		573	*North-South:*		576	*North-South:*			608	*North-South:*			611	*North-South:*			611
	East-West:		184	*East-West:*		276	*East-West:*			195	*East-West:*			287	*East-West:*			287
	SUM:		757	*SUM:*		852	*SUM:*			803	*SUM:*			898	*SUM:*			898
VOLUME/CAPACITY *(V/C)* RATIO:			0.505			0.568				0.535				0.599				0.599
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.405			0.468				0.435				0.499				0.499
LEVEL OF SERVICE (LOS):			A			A				A				A				A

Opposed Ø'ing: N/S-1, E/W-2 or Both-3?																		
			2			2				2				2				2
			0			0				0				0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB--	NB--	0	SB--	NB--	0	SB--	NB--	0	SB--	NB--	0	SB--	NB--	0	SB--
	EB--	0	WB--	EB--	0	WB--	EB--	0	WB--	EB--	0	WB--	EB--	0	WB--	EB--	0	WB--
			0			0				0				0				0
ATSAC-1 or ATSAC+ATCS-2?			2			2				2				2				2
Override Capacity			0			0				0				0				0

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.063

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.064

Δv/c after mitigation: 0.064

Significant impacted? NO

Fully mitigated? N/A

REMARKS:

Version: 1i Beta; 8/4/2011

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Lindley Ave	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
4	East-West Street:	Kittridge St	Projection Year:	2022	Peak Hour:	AM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			2			2			2				2				2	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0				0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0	SB--	0	NB-- 0	SB--	0	NB-- 0	SB--	0		NB-- 0	SB--	0		NB-- 0	SB--	0	
	EB-- 0	WB--	0	EB-- 0	WB--	0	EB-- 0	WB--	0		EB-- 0	WB--	0		EB-- 0	WB--	0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2				2	
Override Capacity			0			0			0				0				0	

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	92	1	**92**	63	155	**155**	0	98	1	**98**	63	161	1	**161**	0	161	1	**161**
	Left-Through		0							0				0				0	
	Through	692	1	356	0	692	356	0	734	1	378	0	734	1	378	0	734	1	378
	Through-Right		1							1				1				1	
	Right	20	0	20	0	20	20	0	21	0	21	0	21	0	21	0	21	0	21
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	96	1	96	0	96	96	0	102	1	102	0	102	1	102	0	102	1	102
	Left-Through		0							0				0				0	
	Through	1193	1	**646**	0	1193	**648**	0	1266	1	**685**	0	1266	1	**688**	0	1266	1	**688**
	Through-Right		1							1				1				1	
	Right	98	0	98	5	103	103	0	104	0	104	5	109	0	109	0	109	0	109
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	112	0	**112**	5	117	**117**	0	119	0	**119**	5	124	0	**124**	0	124	0	**124**
	Left-Through		1							1				1				1	
	Through	58	0	170	8	66	183	0	62	0	181	8	70	0	194	0	70	0	194
	Through-Right		0							0				0				0	
	Right	116	1	70	58	174	97	0	123	1	74	58	181	1	101	0	181	1	101
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	36	0	36	0	36	36	0	38	0	38	0	38	0	38	0	38	0	38
	Left-Through		0							0				0				0	
	Through	92	0	**214**	8	100	**222**	0	98	0	**227**	8	106	0	**235**	0	106	0	**235**
	Through-Right		0							0				0				0	
	Right	86	0	0	0	86	0	0	91	0	0	0	91	0	0	0	91	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		738	*North-South:*		803	*North-South:*			783	*North-South:*			849	*North-South:*			849
		East-West:		326	*East-West:*		339	*East-West:*			346	*East-West:*			359	*East-West:*			359
		SUM:		1064	*SUM:*		1142	*SUM:*			1129	*SUM:*			1208	*SUM:*			1208
VOLUME/CAPACITY *(V/C)* RATIO:				0.709			0.761				0.753				0.805				0.805
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.609			0.661				0.653				0.705				0.705
LEVEL OF SERVICE (LOS):				B			B				B				C				C

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.052

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.052

Significant impacted? YES

$\Delta v/c$ after mitigation: 0.052

Fully mitigated? NO

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Lindley Ave	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
4	East-West Street:	Kittridge St	Projection Year:	2022	Peak Hour:	PM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
No. of Phases			2			2				2				2				2
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0				0				0				0
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- SB-- EB-- WB--			0	NB-- 0 SB-- EB-- 0 WB--			0	NB-- 0 SB-- EB-- 0 WB--			0
ATSAC-1 or ATSAC+ATCS-2?			2			2				2				2				2
Override Capacity			0			0				0				0				0

	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND	Left	102	1	102	59	161	**161**	0	108	1	108	59	167	1	**167**	0	167	1	**167**
	Left-Through		0							0				0				0	
	Through	909	1	**470**	0	909	470	0	965	1	**499**	0	965	1	499	0	965	1	499
	Through-Right		1							1				1				1	
	Right	31	0	31	0	31	31	0	33	0	33	0	33	0	33	0	33	0	33
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	26	1	**26**	0	26	26	0	28	1	**28**	0	28	1	28	0	28	1	28
	Left-Through		0							0				0				0	
	Through	711	1	383	0	711	**386**	0	755	1	407	0	755	1	**409**	0	755	1	**409**
	Through-Right		1							1				1				1	
	Right	55	0	55	5	60	60	0	58	0	58	5	63	0	63	0	63	0	63
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	100	0	**100**	5	105	**105**	0	106	0	**106**	5	111	0	**111**	0	111	0	**111**
	Left-Through		1							1				1				1	
	Through	24	0	124	9	33	138	0	25	0	131	9	34	0	145	0	34	0	145
	Through-Right		0							0				0				0	
	Right	108	1	57	64	172	92	0	115	1	61	64	179	1	96	0	179	1	96
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	18	0	18	0	18	18	0	19	0	19	0	19	0	19	0	19	0	19
	Left-Through		0							0				0				0	
	Through	24	0	**82**	8	32	**90**	0	25	0	**86**	8	33	0	**94**	0	33	0	**94**
	Through-Right		0							0				0				0	
	Right	40	0	0	0	40	0	0	42	0	0	0	42	0	0	0	42	0	0
	Left-Through-Right		1							1				1				1	
	Left-Right		0							0				0				0	
CRITICAL VOLUMES		*North-South:*		496	*North-South:*		547	*North-South:*			527	*North-South:*			576	*North-South:*			576
		East-West:		182	*East-West:*		195	*East-West:*			192	*East-West:*			205	*East-West:*			205
		SUM:		678	*SUM:*		742	*SUM:*			719	*SUM:*			781	*SUM:*			781
VOLUME/CAPACITY *(V/C)* RATIO:				0.452			0.495				0.479				0.521				0.521
V/C LESS ATSAC/ATCS ADJUSTMENT:				0.352			0.395				0.379				0.421				0.421
LEVEL OF SERVICE (LOS):				A			A				A				A				A

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.043

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.042

Significant impacted? NO

Δv/c after mitigation: 0.042

Fully mitigated? N/A

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Reseda Blvd	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
5	East-West Street:	Victory Blvd	Projection Year:	2022	Peak Hour:	AM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

No. of Phases			4			4			4			4			4			4	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	103	1	103	0	103	103	0	109	1	109	0	109	1	109	0	109	1	109
Left-Through		0							0				0				0	
Through	549	2	**275**	47	596	**298**	0	583	2	**292**	47	630	2	**315**	0	630	2	**315**
Through-Right		0							0				0				0	
Right	145	1	63	38	183	84	0	154	1	67	38	192	1	88	0	192	1	88
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	160	1	**160**	33	193	**193**	0	170	1	**170**	33	203	1	**203**	0	203	1	**203**
Left-Through		0							0				0				0	
Through	744	2	311	42	786	327	0	790	2	330	42	832	2	346	0	832	2	346
Through-Right		1							1				1				1	
Right	188	0	188	6	194	194	0	200	0	200	6	206	0	206	0	206	0	206
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	176	1	**176**	6	182	**182**	0	187	1	**187**	6	193	1	**193**	0	193	1	**193**
Left-Through		0							0				0				0	
Through	1298	3	433	2	1300	433	0	1377	3	459	2	1379	3	460	0	1379	3	460
Through-Right		0							0				0				0	
Right	65	1	14	0	65	14	0	69	1	15	0	69	1	15	0	69	1	15
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	164	1	164	34	198	198	0	174	1	174	34	208	1	208	0	208	1	208
Left-Through		0							0				0				0	
Through	1236	2	**618**	2	1238	**619**	0	1312	2	**656**	2	1314	2	**657**	0	1314	2	**657**
Through-Right		0							0				0				0	
Right	139	1	59	36	175	79	0	148	1	63	36	184	1	83	0	184	1	83
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		435	*North-South:*		491	*North-South:*			462	*North-South:*			518	*North-South:*			518
	East-West:		794	*East-West:*		801	*East-West:*			843	*East-West:*			850	*East-West:*			850
	SUM:		1229	*SUM:*		1292	*SUM:*			1305	*SUM:*			1368	*SUM:*			1368
VOLUME/CAPACITY *(V/C)* RATIO:			0.894			0.940				0.949				0.995				0.995
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.794			0.840				0.849				0.895				0.895
LEVEL OF SERVICE (LOS):			C			D				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.046

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.046

Significant impacted? YES

Δv/c after mitigation: 0.046

Fully mitigated? NO

Level of Service Worksheet
(Circular 212 Method)

I/S #:	North-South Street:	Reseda Blvd	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
5	East-West Street:	Victory Blvd	Projection Year:	2022	Peak Hour:	PM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases			4			4			4				4					4
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0				0					0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0		NB-- 0 SB-- EB-- 0 WB--		0		NB-- 0 SB-- EB-- 0 WB--		0	
	ATSAC-1 or ATSAC+ATCS-2?			2			2			2				2					2
	Override Capacity			0			0			0				0					0
NORTHBOUND	Left	101	1	101	0	101	101	0	107	1	107	0	107	1	107	0	107	1	107
	Left-Through		0							0				0				0	
	Through	810	2	**405**	43	853	**427**	0	860	2	**430**	43	903	2	**452**	0	903	2	**452**
	Through-Right		0							0				0				0	
	Right	146	1	62	35	181	78	0	155	1	66	35	190	1	82	0	190	1	82
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	133	1	**133**	36	169	**169**	0	141	1	**141**	36	177	1	**177**	0	177	1	**177**
	Left-Through		0							0				0				0	
	Through	591	2	247	46	637	264	0	627	2	262	46	673	2	279	0	673	2	279
	Through-Right		1							1				1				1	
	Right	149	0	149	7	156	156	0	158	0	158	7	165	0	165	0	165	0	165
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	160	1	**160**	6	166	**166**	0	170	1	**170**	6	176	1	**176**	0	176	1	**176**
	Left-Through		0							0				0				0	
	Through	1279	3	426	2	1281	427	0	1357	3	452	2	1359	3	453	0	1359	3	453
	Through-Right		0							0				0				0	
	Right	122	1	72	0	122	72	0	129	1	76	0	129	1	76	0	129	1	76
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	169	1	169	38	207	207	0	179	1	179	38	217	1	217	0	217	1	217
	Left-Through		0							0				0				0	
	Through	1029	2	**515**	2	1031	**516**	0	1092	2	**546**	2	1094	2	**547**	0	1094	2	**547**
	Through-Right		0							0				0				0	
	Right	184	1	118	34	218	134	0	195	1	125	34	229	1	141	0	229	1	141
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		538	*North-South:*		596	*North-South:*			571	*North-South:*			629	*North-South:*			629
		East-West:		675	*East-West:*		682	*East-West:*			716	*East-West:*			723	*East-West:*			723
		SUM:		1213	*SUM:*		1278	*SUM:*			1287	*SUM:*			1352	*SUM:*			1352
	VOLUME/CAPACITY *(V/C)* RATIO:			0.882			0.929				0.936				0.983				0.983
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.782			0.829				0.836				0.883				0.883
	LEVEL OF SERVICE (LOS):			C			D				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.047

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.047

Δv/c after mitigation: 0.047

Significant impacted? YES

Fully mitigated? NO

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Lindley Ave	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
6	East-West Street:	Victory Blvd	Projection Year:	2022	Peak Hour:	AM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

No. of Phases			2			2			2			2			2			2	
Opposed Ø'ing: N/S-1, E/W-2 or Both-3?			0			0			0			0			0			0	
Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	NB--	0	SB-- 0	
	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	EB--	0	WB-- 0	
ATSAC-1 or ATSAC+ATCS-2?			2			2			2			2			2			2	
Override Capacity			0			0			0			0			0			0	

MOVEMENT	EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
NORTHBOUND																		
Left	62	1	**62**	33	95	**95**	0	66	1	**66**	33	99	1	**99**	0	99	1	**99**
Left-Through		0							0				0				0	
Through	599	2	300	18	617	309	0	636	2	318	18	654	2	327	0	654	2	327
Through-Right		0							0				0				0	
Right	164	1	105	0	164	105	0	174	1	112	0	174	1	112	0	174	1	112
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
SOUTHBOUND																		
Left	144	1	144	5	149	149	0	153	1	153	5	158	1	158	0	158	1	158
Left-Through		0							0				0				0	
Through	1049	1	**609**	16	1065	**635**	0	1113	1	**646**	16	1129	1	**672**	0	1129	1	**672**
Through-Right		1							1				1				1	
Right	169	0	169	36	205	205	0	179	0	179	36	215	0	215	0	215	0	215
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
EASTBOUND																		
Left	89	1	89	40	129	**129**	0	94	1	94	40	134	1	**134**	0	134	1	**134**
Left-Through		0							0				0				0	
Through	1381	2	**509**	3	1384	520	0	1466	2	**540**	3	1469	2	551	0	1469	2	551
Through-Right		1							1				1				1	
Right	145	0	145	30	175	175	0	154	0	154	30	184	0	184	0	184	0	184
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
WESTBOUND																		
Left	118	1	**118**	0	118	118	0	125	1	**125**	0	125	1	125	0	125	1	125
Left-Through		0							0				0				0	
Through	1493	2	538	3	1496	**541**	0	1584	2	571	3	1587	2	**574**	0	1587	2	**574**
Through-Right		1							1				1				1	
Right	122	0	122	5	127	127	0	129	0	129	5	134	0	134	0	134	0	134
Left-Through-Right		0							0				0				0	
Left-Right		0							0				0				0	
CRITICAL VOLUMES	*North-South:*		671	*North-South:*		730	*North-South:*			712	*North-South:*			771	*North-South:*			771
	East-West:		627	*East-West:*		670	*East-West:*			665	*East-West:*			708	*East-West:*			708
	SUM:		1298	*SUM:*		1400	*SUM:*			1377	*SUM:*			1479	*SUM:*			1479
VOLUME/CAPACITY *(V/C)* RATIO:			0.865			0.933				0.918				0.986				0.986
V/C LESS ATSAC/ATCS ADJUSTMENT:			0.765			0.833				0.818				0.886				0.886
LEVEL OF SERVICE (LOS):			C			D				D				D				D

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.068

Significant impacted? YES

PROJECT IMPACT

Change in *v/c* due to project: 0.068

Significant impacted? YES

Δv/c after mitigation: 0.068

Fully mitigated? NO

Level of Service Workheet
(Circular 212 Method)

I/S #:	North-South Street:	Lindley Ave	Year of Count:	2019	Ambient Growth: (%):	2	Conducted by:	KOA Corp	Date:	7/3/19
6	East-West Street:	Victory Blvd	Projection Year:	2022	Peak Hour:	PM	Reviewed by:	AS	Project:	LAUSD Reseda High School TIS

		EXISTING CONDITION			EXISTING PLUS PROJECT			FUTURE CONDITION W/O PROJECT				FUTURE CONDITION W/ PROJECT				FUTURE W/ PROJECT W/ MITIGATION			
	MOVEMENT	Volume	No. of Lanes	Lane Volume	Project Traffic	Total Volume	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume	Added Volume	Total Volume	No. of Lanes	Lane Volume
	No. of Phases		2	2			2			2	2			2	2			2	2
	Opposed Ø'ing: N/S-1, E/W-2 or Both-3?		0	0			0			0	0			0	0			0	0
	Right Turns: FREE-1, NRTOR-2 or OLA-3?	NB-- 0 SB-- EB-- 0 WB--	0	0	NB-- 0 SB-- EB-- 0 WB--		0	NB-- 0 SB-- EB-- 0 WB--		0	0	NB-- 0 SB-- EB-- 0 WB--		0	0	NB-- 0 SB-- EB-- 0 WB--		0	0
	ATSAC-1 or ATSAC+ATCS-2?		2	2			2			2	2			2	2			2	2
	Override Capacity		0	0			0			0	0			0	0			0	0
NORTHBOUND	Left	93	1	93	31	124	**124**	0	99	1	99	31	130	1	130	0	130	1	130
	Left-Through		0							0				0				0	
	Through	768	2	**384**	16	784	392	0	815	2	**408**	16	831	2	**416**	0	831	2	**416**
	Through-Right		0							0				0				0	
	Right	182	1	135	0	182	135	0	193	1	143	0	193	1	143	0	193	1	143
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
SOUTHBOUND	Left	118	1	**118**	6	124	124	0	125	1	**125**	6	131	1	**131**	0	131	1	**131**
	Left-Through		0							0				0				0	
	Through	595	1	363	18	613	**392**	0	631	1	385	18	649	1	414	0	649	1	414
	Through-Right		1							1				1				1	
	Right	130	0	130	40	170	170	0	138	0	138	40	178	0	178	0	178	0	178
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
EASTBOUND	Left	113	1	113	37	150	150	0	120	1	120	37	157	1	157	0	157	1	157
	Left-Through		0							0				0				0	
	Through	1390	2	**497**	3	1393	**509**	0	1475	2	**527**	3	1478	2	**539**	0	1478	2	**539**
	Through-Right		1							1				1				1	
	Right	101	0	101	33	134	134	0	107	0	107	33	140	0	140	0	140	0	140
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
WESTBOUND	Left	94	1	**94**	0	94	**94**	0	100	1	**100**	0	100	1	**100**	0	100	1	**100**
	Left-Through		0							0				0				0	
	Through	1117	2	427	3	1120	429	0	1185	2	453	3	1188	2	455	0	1188	2	455
	Through-Right		1							1				1				1	
	Right	163	0	163	5	168	168	0	173	0	173	5	178	0	178	0	178	0	178
	Left-Through-Right		0							0				0				0	
	Left-Right		0							0				0				0	
	CRITICAL VOLUMES	*North-South:*		502	*North-South:*		516	*North-South:*			533	*North-South:*			547	*North-South:*			547
		East-West:		591	*East-West:*		603	*East-West:*			627	*East-West:*			639	*East-West:*			639
		SUM:		1093	*SUM:*		1119	*SUM:*			1160	*SUM:*			1186	*SUM:*			1186
	VOLUME/CAPACITY *(V/C)* RATIO:			0.729			0.746				0.773				0.791				0.791
	V/C LESS ATSAC/ATCS ADJUSTMENT:			0.629			0.646				0.673				0.691				0.691
	LEVEL OF SERVICE (LOS):			B			B				B				B				B

REMARKS:

Version: 1i Beta; 8/4/2011

EXISTING + PROJECT IMPACT

Change in v/c due to project: 0.017

Significant impacted? NO

PROJECT IMPACT

Change in *v/c* due to project: 0.018

Significant impacted? NO

Δv/c after mitigation: 0.018

Fully mitigated? N/A

ATTACHMENT C –
LOS CALCULATION WORKSHEETS –
UNSIGNALIZED INTERSECTIONS – HCM OUTPUT

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	9.5
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.285

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	25	38	17	96	51	55	30	102	49	20	131	65
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	25	38	17	96	51	55	30	102	49	20	131	65
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	6	10	4	24	13	14	8	26	12	5	33	16
Total Analysis Volume [veh/h]	25	38	17	96	51	55	30	102	49	20	131	65
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	700	727	747	759
Degree of Utilization, x	0.11	0.28	0.24	0.28

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.39	1.14	0.95	1.17
95th-Percentile Queue Length [ft]	9.63	28.39	23.69	29.35
Approach Delay [s/veh]	8.80	9.85	9.36	9.62
Approach LOS	A	A	A	A
Intersection Delay [s/veh]	9.52			
Intersection LOS	A			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	8.9
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.286

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	41	9	20	213	214	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	41	9	20	213	214	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	10	2	5	53	54	7
Total Analysis Volume [veh/h]	41	9	20	213	214	29
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	716	831	849
Degree of Utilization, x	0.07	0.28	0.29

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.22	1.15	1.18
95th-Percentile Queue Length [ft]	5.61	28.78	29.59
Approach Delay [s/veh]	8.40	9.01	8.93
Approach LOS	A	A	A
Intersection Delay [s/veh]	8.91		
Intersection LOS	A		

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	8.2
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.166

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	17	36	30	61	31	42	23	80	17	20	29	56
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	17	36	30	61	31	42	23	80	17	20	29	56
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	9	8	15	8	11	6	20	4	5	7	14
Total Analysis Volume [veh/h]	17	36	30	61	31	42	23	80	17	20	29	56
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	812	809	798	838
Degree of Utilization, x	0.10	0.17	0.15	0.13

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.34	0.59	0.53	0.43
95th-Percentile Queue Length [ft]	8.51	14.80	13.20	10.71
Approach Delay [s/veh]	7.94	8.34	8.31	7.92
Approach LOS	A	A	A	A
Intersection Delay [s/veh]	8.16			
Intersection LOS	A			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	8.1
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.202

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	17	16	21	152	144	27
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	17	16	21	152	144	27
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	4	4	5	38	36	7
Total Analysis Volume [veh/h]	17	16	21	152	144	27
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	804	857	880
Degree of Utilization, x	0.04	0.20	0.19

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.13	0.75	0.72
95th-Percentile Queue Length [ft]	3.21	18.81	17.94
Approach Delay [s/veh]	7.67	8.26	8.07
Approach LOS	A	A	A
Intersection Delay [s/veh]	8.12		
Intersection LOS	A		

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	9.8
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.307

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	25	38	17	96	51	55	30	102	49	20	131	65
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	27	40	18	102	54	58	32	108	52	21	139	69
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	7	10	5	26	14	15	8	27	13	5	35	17
Total Analysis Volume [veh/h]	27	40	18	102	54	58	32	108	52	21	139	69
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	687	715	734	747
Degree of Utilization, x	0.12	0.30	0.26	0.31

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.42	1.26	1.05	1.30
95th-Percentile Queue Length [ft]	10.54	31.45	26.16	32.54
Approach Delay [s/veh]	8.98	10.18	9.63	9.94
Approach LOS	A	B	A	A
Intersection Delay [s/veh]	9.82			
Intersection LOS	A			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	9.1
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.306

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	41	9	20	213	214	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	10	21	226	227	31
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	3	5	57	57	8
Total Analysis Volume [veh/h]	43	10	21	226	227	31
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	708	826	844
Degree of Utilization, x	0.07	0.30	0.31

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.24	1.26	1.30
95th-Percentile Queue Length [ft]	6.05	31.45	32.43
Approach Delay [s/veh]	8.50	9.21	9.13
Approach LOS	A	A	A
Intersection Delay [s/veh]	9.10		
Intersection LOS	A		

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	8.3
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.179

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	17	36	30	61	31	42	23	80	17	20	29	56
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	38	32	65	33	45	24	85	18	21	31	59
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	10	8	16	8	11	6	21	5	5	8	15
Total Analysis Volume [veh/h]	18	38	32	65	33	45	24	85	18	21	31	59
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	803	800	790	828
Degree of Utilization, x	0.11	0.18	0.16	0.13

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.37	0.65	0.57	0.46
95th-Percentile Queue Length [ft]	9.19	16.18	14.27	11.56
Approach Delay [s/veh]	8.03	8.47	8.43	8.02
Approach LOS	A	A	A	A
Intersection Delay [s/veh]	8.27			
Intersection LOS	A			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	8.2
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.214

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	17	16	21	152	144	27
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	0	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	17	22	161	153	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	4	6	40	38	7
Total Analysis Volume [veh/h]	18	17	22	161	153	29
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	795	853	877
Degree of Utilization, x	0.04	0.21	0.21

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.14	0.81	0.78
95th-Percentile Queue Length [ft]	3.45	20.28	19.47
Approach Delay [s/veh]	7.73	8.37	8.18
Approach LOS	A	A	A
Intersection Delay [s/veh]	8.23		
Intersection LOS	A		

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	13.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.490

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	25	38	17	96	51	55	30	102	49	20	131	65
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	83	0	71	0	0	0	0	0	92	76	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	110	40	89	102	54	58	32	108	144	97	139	69
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	28	10	22	26	14	15	8	27	36	24	35	17
Total Analysis Volume [veh/h]	110	40	89	102	54	58	32	108	144	97	139	69
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	604	593	640	623
Degree of Utilization, x	0.40	0.36	0.44	0.49

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.88	1.64	2.28	2.70
95th-Percentile Queue Length [ft]	47.11	40.94	56.92	67.38
Approach Delay [s/veh]	12.80	12.46	13.03	14.20
Approach LOS	B	B	B	B
Intersection Delay [s/veh]	13.20			
Intersection LOS	B			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	10.2
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.405

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	41	9	20	213	214	29
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	71	76	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	43	10	21	297	303	31
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	11	3	5	74	76	8
Total Analysis Volume [veh/h]	43	10	21	297	303	31
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	665	809	824
Degree of Utilization, x	0.08	0.39	0.41

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.26	1.88	1.98
95th-Percentile Queue Length [ft]	6.47	47.12	49.53
Approach Delay [s/veh]	8.88	10.30	10.32
Approach LOS	A	B	B
Intersection Delay [s/veh]	10.20		
Intersection LOS	B		

Intersection Level Of Service Report
Intersection 2: Etiwanda Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	10.3
Analysis Method:	HCM 6th Edition	Level Of Service:	B
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.361

Intersection Setup

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Approach	Northbound			Southbound			Eastbound			Westbound		
Lane Configuration												
Turning Movement	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right	Left	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00			30.00			30.00			30.00		
Grade [%]	0.00			0.00			0.00			0.00		
Crosswalk	Yes			Yes			Yes			Yes		

Volumes

Name	Etiwanda Avenue			Etiwanda Avenue			Kittridge Street			Kittridge Street		
Base Volume Input [veh/h]	17	36	30	61	31	42	23	80	17	20	29	56
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Site-Generated Trips [veh/h]	87	9	74	0	8	0	0	0	81	68	0	0
Diverted Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0	0	0	0	0	0	0
Total Hourly Volume [veh/h]	105	47	106	65	41	45	24	85	99	89	31	59
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	26	12	27	16	10	11	6	21	25	22	8	15
Total Analysis Volume [veh/h]	105	47	106	65	41	45	24	85	99	89	31	59
Pedestrian Volume [ped/h]	0			0			0			0		

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	716	684	715	687
Degree of Utilization, x	0.36	0.22	0.29	0.26

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	1.64	0.84	1.21	1.04
95th-Percentile Queue Length [ft]	41.12	20.99	30.22	26.00
Approach Delay [s/veh]	10.84	9.75	10.09	10.08
Approach LOS	B	A	B	B
Intersection Delay [s/veh]	10.27			
Intersection LOS	B			

Intersection Level Of Service Report
Intersection 3: Wynne Avenue & Kittridge Street

Control Type:	All-way stop	Delay (sec / veh):	9.0
Analysis Method:	HCM 6th Edition	Level Of Service:	A
Analysis Period:	15 minutes	Volume to Capacity (v/c):	0.306

Intersection Setup

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Approach	Southbound		Eastbound		Westbound	
Lane Configuration						
Turning Movement	Left	Right	Left	Thru	Thru	Right
Lane Width [ft]	12.00	12.00	12.00	12.00	12.00	12.00
No. of Lanes in Pocket	0	0	0	0	0	0
Pocket Length [ft]	100.00	100.00	100.00	100.00	100.00	100.00
Speed [mph]	30.00		30.00		30.00	
Grade [%]	0.00		0.00		0.00	
Crosswalk	No		No		No	

Volumes

Name	Wynne Avenue		Kittridge Street		Kittridge Street	
Base Volume Input [veh/h]	17	16	21	152	144	27
Base Volume Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Heavy Vehicles Percentage [%]	2.00	2.00	2.00	2.00	2.00	2.00
Growth Factor	1.0600	1.0600	1.0600	1.0600	1.0600	1.0600
In-Process Volume [veh/h]	0	0	0	0	0	0
Site-Generated Trips [veh/h]	0	0	0	74	68	0
Diverted Trips [veh/h]	0	0	0	0	0	0
Pass-by Trips [veh/h]	0	0	0	0	0	0
Existing Site Adjustment Volume [veh/h]	0	0	0	0	0	0
Other Volume [veh/h]	0	0	0	0	0	0
Total Hourly Volume [veh/h]	18	17	22	235	221	29
Peak Hour Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Other Adjustment Factor	1.0000	1.0000	1.0000	1.0000	1.0000	1.0000
Total 15-Minute Volume [veh/h]	5	4	6	59	55	7
Total Analysis Volume [veh/h]	18	17	22	235	221	29
Pedestrian Volume [ped/h]	0		0		0	

Intersection Settings

Lanes

Capacity per Entry Lane [veh/h]	744	840	854
Degree of Utilization, x	0.05	0.31	0.29

Movement, Approach, & Intersection Results

95th-Percentile Queue Length [veh]	0.15	1.30	1.22
95th-Percentile Queue Length [ft]	3.69	32.53	30.54
Approach Delay [s/veh]	8.07	9.17	8.95
Approach LOS	A	A	A
Intersection Delay [s/veh]	9.00		
Intersection LOS	A		