Department of Toxic Substances Control

Matthew Rodriquez
Secretary for
Environmental Protection

Barbara A. Lee, Director
8800 Cal Center Drive
Sacramento, California 95826-3200

Edmund G. Brown Jr.
Governor

August 17, 2016

Robert Laughton, LEED AP
Director, Environmental Health and Safety
Los Angeles Unified School District
333 South Beaudry Avenue, Floor 21
Los Angeles, CA 90017

DTSC DETERMINATION REGARDING LEAD IN SOILS AT EASTMAN AVENUE ELEMENTARY SCHOOL CAMPUS, LOS ANGELES UNIFIED SCHOOL DISTRICT

Dear Mr. Laughton,

The Department of Toxic Substances Control (DTSC or Department) has reviewed the results of the soil sampling conducted at the Eastman Avenue Elementary School Campus (Eastman Avenue Campus) located at 4112 East Olympic Boulevard, Los Angeles, California. Background information regarding the results of sampling performed at this campus can be found in previous correspondence between DTSC and the Los Angeles Unified School District (LAUSD).[1,2,3]

The Department of Toxic Substances Control's (DTSC) sampling Contractor (Parsons Corporation) performed additional soil sampling at the campus on August 11, 2016 in accordance with the DTSC sampling work plan dated August 9, 2016. The results of this sampling effort are presented in the attached Parsons report.

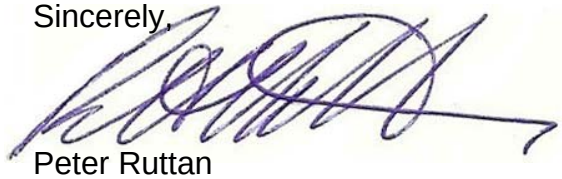
DTSC's Human Health and Ecological Risk Office (HERO) has reviewed all the soil data collected under the Department's oversight for the Eastman Avenue Campus and has provided a memorandum regarding the risk posed to students. The memorandum is attached.

DTSC has determined: 1) that the concentrations of lead in soils found at the Eastman Avenue Campus do not pose a health risk to students or staff when considering a five days-per-week exposure scenario; and, 2) cleanup is not considered necessary given the current site use. Should future use of the campus property change to a residential setting, a supplemental analysis of the data may be warranted.

[1] DTSC; "*Results of Soil Sampling at Eastman Avenue Elementary School*"; July 14, 2016.
[2] DTSC; "*DTSC Review of Soil Sampling Results and Soil Removal Work at Eastman Avenue Elementary School*"; August 9, 2016.
[3] DTSC; "*Preliminary Results of Soil Sampling Efforts at Lorena Avenue Elementary, Rowan Street Elementary, Fishburn Avenue Elementary, and Eastman Avenue Elementary School Campuses*"; August 15, 2016.

If you have any questions regarding this letter, please contact me at (916) 255-3630 or at Peter.Ruttan@dtsc.ca.gov.

Sincerely,



Peter Ruttan
Project Manager
Exide Cleanup Project

Attachments (2)

cc: (via email)
Mr. Pat Schanen, LAUSD
Mr. Bill Piazza, LAUSD
Ms. Zoe Bayar, DTSC
Ms. Suhasini Patel, DTSC
Ms. Tamara Zielinski, DTSC
Dr. Shukla Roy-Semmen, DTSC

PARSONS

100 West Walnut Street • Pasadena, CA 91124 • (626) 440-2000 • Fax (626) 440-2993 • www.parsons.com

Technical Memorandum

Date: 17 August 2016

To: Ms. Sarah Cromie, Sr. Hazardous Substance Scientist
California Department of Toxic Substances Control
8800 Cal Center Drive
Sacramento, California 95826-3200

Subject: ***Supplemental Sampling Report for PIA School SCH-11***
Eastman Avenue Elementary School
4112 E. Olympic Boulevard
Los Angeles, California 90023

This Technical Memorandum presents a summary of the soil sample results for Eastman Avenue Elementary School, located at 4112 E. Olympic Blvd., Los Angeles, California (Property), designated as Preliminary Investigation Area (PIA) School number SCH-11 (Figure 1). This Property was sampled on August 11, 2016 by Parsons. A total of 9 borings were hand-augered up to a maximum depth of 6 inches (Figure 1). Samples were collected at depths of 0-1 inches, 1-3 inches, and 3-6 inches. Sampling equipment was decontaminated between samples and locations to avoid cross-contamination.

Soil from each of the sample intervals (0-1 inches, 1-3 inches, and 3-6 inches) were submitted to an offsite laboratory for analysis of lead using United States Environmental Protection Agency (EPA) Method 6010. A total of 30 samples, including three duplicate samples, were collected and analyzed.

Analytical results for lead in the samples ranged from 12.1 to 97.8 milligrams per kilogram (mg/kg) as shown in Table 1. The highest concentration (97.8 mg/kg) was observed in the sample collected from Boring SCH-11-06 at a depth of 1-3 inches. The analytical laboratory report is provided in Attachment 1.

CLOSING

If you have any questions or require further information, please contact me directly.

Sincerely,

Shala Craig, P.E. #C-69804
Parsons Project Manager

Attachments: Table 1 – Laboratory Results for Soil Samples
Figure 1 – Soil Sample Map
Attachment 1 - Analytical Laboratory Report

cc: Peter Ruttan, DTSC

TABLE

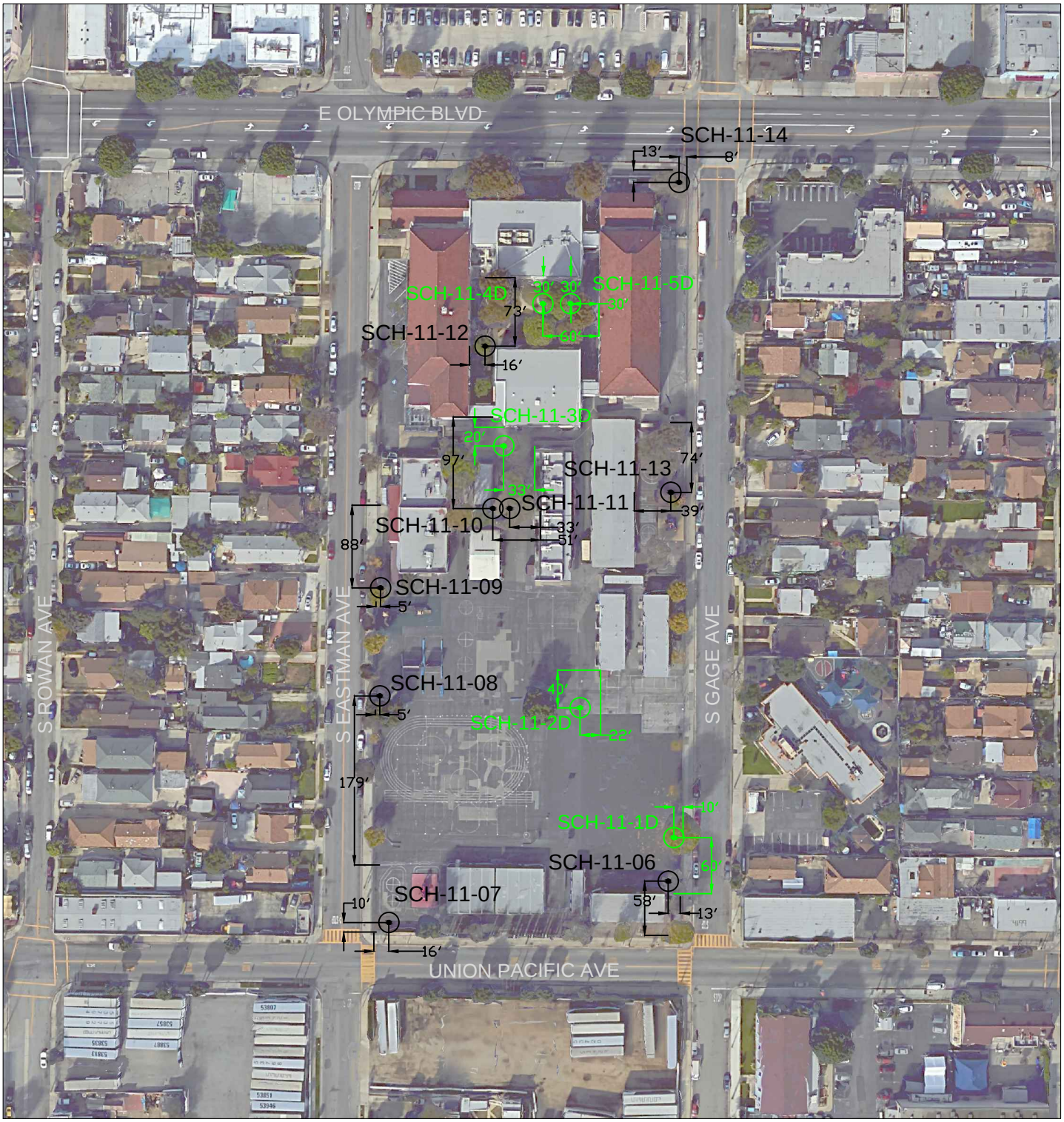
Table 1
Laboratory Results for Soil Samples
SCH No. 11

Sample ID	Date	Laboratory Report	Matrix	Depth (in)	Lead
					mg/kg
SCH-11-06-01	8/11/2016	84012	Soil	0-1	**69.8**
SCH-11-06-03	8/11/2016	84012	Soil	1-3	**97.8**
SCH-11-06-06	8/11/2016	84012	Soil	3-6	**86.5**
SCH-11-07-01	8/11/2016	84012	Soil	0-1	**71.5**
SCH-11-07-03	8/11/2016	84012	Soil	1-3	**80.6**
SCH-11-07-06	8/11/2016	84012	Soil	3-6	**57.5**
SCH-11-07-06D	8/11/2016	84012	Soil	3-6	**58.3**
SCH-11-08-01	8/11/2016	84012	Soil	0-1	**67.8**
SCH-11-08-03	8/11/2016	84012	Soil	1-3	**48.4**
SCH-11-08-06	8/11/2016	84012	Soil	3-6	**47.6**
SCH-11-09-01	8/11/2016	84012	Soil	0-1	**65.2**
SCH-11-09-03	8/11/2016	84012	Soil	1-3	**52.5**
SCH-11-09-03D	8/11/2016	84012	Soil	1-3	**57.3**
SCH-11-09-06	8/11/2016	84012	Soil	3-6	**63.6**
SCH-11-10-01	8/11/2016	84012	Soil	0-1	**53.3**
SCH-11-10-03	8/11/2016	84012	Soil	1-3	**56.2**
SCH-11-10-06	8/11/2016	84012	Soil	3-6	**38.7**
SCH-11-11-01	8/11/2016	84012	Soil	0-1	**42.1**
SCH-11-11-03	8/11/2016	84012	Soil	1-3	**39.9**
SCH-11-11-06	8/11/2016	84012	Soil	3-6	**14.5**
SCH-11-11-06D	8/11/2016	84012	Soil	3-6	**13.7**
SCH-11-12-01	8/11/2016	84012	Soil	0-1	**39.3**
SCH-11-12-03	8/11/2016	84012	Soil	1-3	**24.8**
SCH-11-12-06	8/11/2016	84012	Soil	3-6	**18.8**
SCH-11-13-01	8/11/2016	84012	Soil	0-1	**39.9**
SCH-11-13-03	8/11/2016	84012	Soil	1-3	**27.0**
SCH-11-13-06	8/11/2016	84012	Soil	3-6	**12.1**
SCH-11-14-01	8/11/2016	84012	Soil	0-1	**65.7**
SCH-11-14-03	8/11/2016	84012	Soil	1-3	**58.0**
SCH-11-14-06	8/11/2016	84012	Soil	3-6	**31.6**

Notes:
Detection concentrations are in **BOLD** text
ND<____ = Non-detect at the laboratory reporting limit

Laboratory Detection Limits:
Lead = 0.5 to 50 mg/kg

FIGURE



Source: Google Earth, 2016

LEGEND

SOIL SAMPLE LOCATIONS, 2015

SOIL SAMPLE LOCATIONS, Aug. 2016

0 150

APPROXIMATE SCALE IN FEET

N

SOIL SAMPLE MAP

CLIENT: DTSC - EXIDE

LOCATION: Eastman Avenue Elementary School (SCH-11)
4112 East Olympic Boulevard, Los Angeles, CA

PARSONS

FIGURE: 1

K:\Depts\Dept42b\DTSC\Orphan Sites MSA\Exide\Sampling\Schools & Parks\Figures\CAD\Figure # Eastman Avenue ES rev 8-8-2016.dwg

ATTACHMENT 1
ANALYTICAL LABORATORY REPORTS

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Shala Craig

Number of Pages	**13**
Date Received	**08/11/2016**
Date Reported	**08/15/2016**

Job Number	Order Date	Client
84012	08/11/2016	PARSNS

Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling
Site: Eastman Ave. ES
4112 E Olympic Blvd.
Los Angeles, CA 90023

Enclosed please find results of analyses of 30 soil samples which were analyzed as specified on the attached chain of custody. If there are any questions, please do not hesitate to call.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

Mobile American Environmental Testing Laboratory, Inc.
2834 North Naomi Street Burbank, CA 91504 - DOHS NO: 2402
Tel: (888) 288-AETL - (818) 845-8200 - Fax: (818) 845-8840 - www.aetlab.com

CHAIN OF CUSTODY RECORD

84012

COMPANY	Parsons	PHONE	626-440-6161
PROJECT MANAGER	Shala Craig	FAX	626-440-2993
PROJECT NAME	DTSC Exide Offsite Sampling	PROJECT #	449646-01017
SITE NAME AND ADDRESS	Eastman Ave ES 4112 E Olympic Blvd, LA		

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/ SIZE	PRES	Pb (6010B)	As,Cd, Cu,Sb,	Zn (6010B)	COMMENTS
1	SCH-11-06-01	84012.01	8/11/2016@ 0834	SOIL	1	ICE	X			
2	SCH-11-06-03	84012.02	8/11/2016@ 0840	SOIL	1	ICE	X			
3	SCH-11-06-06	84012.03	8/11/2016@ 0845	SOIL	1	ICE	X			
4	SCH-11-07-01	84012.04	8/11/2016@ 0848	SOIL	1	ICE	X			
5	SCH-11-07-03	84012.05	8/11/2016@ 0850	SOIL	1	ICE	X			H = hold
6	SCH-11-07-06	84012.06	8/11/2016@ 0853	SOIL	1	ICE	X			
7	SCH-11-07-06D	84012.07	8/11/2016@ 0852	SOIL	1	ICE	X			
8	SCH-11-08-01	84012.08	8/11/2016@ 0859	SOIL	1	ICE	X			
9	SCH-11-08-03	84012.09	8/11/2016@ 0900	SOIL	1	ICE	X			
10	SCH-11-08-06	84012.10	8/11/2016@ 0901	SOIL	1	ICE	X			
11	SCH-11-09-01	84012.11	8/11/2016@ 0906	SOIL	1	ICE	X			
12	SCH-11-09-03	84012.12	8/11/2016@ 0907	SOIL	1	ICE	X			
13	SCH-11-09-03D	84012.13	8/11/2016@ 0907	SOIL	1	ICE	X			
14	SCH-11-09-06	84012.14	8/11/2016@ 0908	SOIL	1	ICE	X			

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	14	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

o NORMAL

x RUSH 1 DAY

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature: Michael Ging	Signature:	Signature:
Printed Name: ~~Peter Shan~~ Michael Ging	Printed Name:	Printed Name:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Jean Landa
Date / Time:	Date / Time:	Date / Time: 8/11/16 1815

Mobile American Environmental Testing Laboratory, Inc.
2834 North Naomi Street Burbank, CA 91504 - DOHS NO: 2402
Tel: (888) 288-AETL - (818) 845-8200 - Fax: (818) 845-8840 - www.aetlab.com

CHAIN OF CUSTODY RECORD

84012

COMPANY	Parsons	PHONE	626-440-6161
PROJECT MANAGER	Shala Craig	FAX	626-440-2993
PROJECT NAME	DTSC Exide Offsite Sampling	PROJECT #	449646-01017
SITE NAME AND ADDRESS			

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/ SIZE	PRES	Pb (6010B)	As,Cd, Cu,Sb,	Zn (6010B)											COMMENTS
1	SCH-11-10-01	84012.15	8/11/2016@ 0912	SOIL	1	ICE	X													
2	SCH-11-10-03	84012.16	8/11/2016@ 0914	SOIL	1	ICE	X													
3	SCH-11-10-06	84012.17	8/11/2016@ 0915	SOIL	1	ICE	X													
4	SCH-11-11-01	84012.18	8/11/2016@ 0917	SOIL	1	ICE	X													
5	SCH-11-11-03	84012.19	8/11/2016@ 0919	SOIL	1	ICE	X													H = hold
6	SCH-11-11-06	84012.20	8/11/2016@ 0920	SOIL	1	ICE	X													
7	SCH-11-11-06D	84012.21	8/11/2016@ 0920	SOIL	1	ICE	X													
8	SCH-11-12-01	84012.22	8/11/2016@ 0926	SOIL	1	ICE	X													
9	SCH-11-12-03	84012.23	8/11/2016@ 0929	SOIL	1	ICE	X													
10	SCH-11-12-06	84012.24	8/11/2016@ 0930	SOIL	1	ICE	X													
11	SCH-11-13-01	84012.25	8/11/2016@ 0937	SOIL	1	ICE	X													
12	SCH-11-13-03	84012.26	8/11/2016@ 0934	SOIL	1	ICE	X													
13	SCH-11-13-06	84012.27	8/11/2016@ 0939	SOIL	1	ICE	X													
14																				

ANALYSIS REQUESTED

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	13	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

o NORMAL

x RUSH 1 DAY

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	Signature:	Signature:
Printed Name: ~~Peter Shein~~ MS Michael Good	Printed Name:	Printed Name:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Jen Gaude
Date / Time:	Date / Time:	Date / Time: 8/12/16 1315

Mobile American Environmental Testing Laboratory, Inc.
2834 North Naomi Street Burbank, CA 91504 - DOHS NO: 2402
Tel: (888) 288-AETL - (818) 845-8200 - Fax: (818) 845-8840 - www.aetlab.com

CHAIN OF CUSTODY RECORD

84012

COMPANY	Parsons	PHONE	626-440-6161
PROJECT MANAGER	Shala Craig	FAX	626-440-2993
PROJECT NAME	DTSC Exide Offsite Sampling	PROJECT #	449646-01017
SITE NAME AND ADDRESS	Eastman Ave ES 4112 E Olympic Blvd, LA		

	SAMPLE ID	LAB ID	DATE / TIME	MATRIX	CONTAINER NUMBER/ SIZE	PRES	Pb (6010B)	As,Cd, Cu,Sb,	Zn (6010B)											COMMENTS
1	SCH-11-14-01	84012-28	8/11/2016@ 0949	SOIL	1	ICE	X													
2	SCH-11-14-03	84012-29	8/11/2016@ 0951	SOIL	1	ICE	X													
3	SCH-11-14-06	84012-30	8/11/2016@ 0952	SOIL	1	ICE	X				MG									
4	~~SCH-11-15-01~~		~~8/11/2016@~~	~~SOIL~~	~~1~~	~~ICE~~	X													
5	~~SCH-11-15-03~~		~~8/11/2016@~~	~~SOIL~~	~~1~~	~~ICE~~	X				MG									H = hold
6	~~SCH-11-15-06~~		~~8/11/2016@~~	~~SOIL~~	~~1~~	~~ICE~~	X				MG									
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				

ANALYSIS REQUESTED

SAMPLE RECEIPT – TO BE FILLED BY LABORATORY

TOTAL NUMBER OF CONTAINERS	3	PROPERLY COOLED Y / N / NA	
CUSTODY SEALS Y / N / NA		SAMPLES INTACT Y / N / NA	
RECEIVED IN GOOD COND. Y / N		SAMPLES ACCEPTED Y / N	

TURN AROUND TIME

o NORMAL

x RUSH 1 DAY

RELINQUISHED BY SAMPLER:	RELINQUISHED BY:	RELINQUISHED BY:
Signature:	Signature:	Signature:
Printed Name: ~~Peter Shair~~ MC Michael Gavel	Printed Name:	Printed Name:
RECEIVED BY:	RECEIVED BY:	RECEIVED BY: AETL
Signature:	Signature:	Signature:
Printed Name:	Printed Name:	Printed Name: Sean Lande
Date / Time:	Date / Time:	Date / Time: 08/11/16 1815

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Telephone: (626)440-6161
Attention: Shala Craig

Project ID: 449646-01017
Date Received 08/11/2016
Date Reported 08/15/2016

Job Number	Order Date	Client
84012	08/11/2016	PARSNS

CERTIFICATE OF ANALYSIS
CASE NARRATIVE

AETL received 30 samples with the following specification on 08/11/2016.

Lab ID	Sample ID	Sample Date	Matrix	Quantity Of Containers
84012.01	SCH-11-06-01	08/11/2016	Soil	1
84012.02	SCH-11-06-03	08/11/2016	Soil	1
84012.03	SCH-11-06-06	08/11/2016	Soil	1
84012.04	SCH-11-07-01	08/11/2016	Soil	1
84012.05	SCH-11-07-03	08/11/2016	Soil	1
84012.06	SCH-11-07-06	08/11/2016	Soil	1
84012.07	SCH-11-07-06D	08/11/2016	Soil	1
84012.08	SCH-11-08-01	08/11/2016	Soil	1
84012.09	SCH-11-08-03	08/11/2016	Soil	1
84012.10	SCH-11-08-06	08/11/2016	Soil	1
84012.11	SCH-11-09-01	08/11/2016	Soil	1
84012.12	SCH-11-09-03	08/11/2016	Soil	1
84012.13	SCH-11-09-03D	08/11/2016	Soil	1
84012.14	SCH-11-09-06	08/11/2016	Soil	1
84012.15	SCH-11-10-01	08/11/2016	Soil	1
84012.16	SCH-11-10-03	08/11/2016	Soil	1
84012.17	SCH-11-10-06	08/11/2016	Soil	1
84012.18	SCH-11-11-01	08/11/2016	Soil	1
84012.19	SCH-11-11-03	08/11/2016	Soil	1
84012.20	SCH-11-11-06	08/11/2016	Soil	1
84012.21	SCH-11-11-06D	08/11/2016	Soil	1
84012.22	SCH-11-12-01	08/11/2016	Soil	1
84012.23	SCH-11-12-03	08/11/2016	Soil	1
84012.24	SCH-11-12-06	08/11/2016	Soil	1

Continued

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

Ordered By

Parsons 100 West Walnut Street Pasadena, CA 91124-	Project ID: 449646-01017 Date Received 08/11/2016 Date Reported 08/15/2016
Telephone: (626)440-6161 Attention: Shala Craig	

Job Number	Order Date	Client
84012	08/11/2016	PARSNS

CERTIFICATE OF ANALYSIS

CASE NARRATIVE

84012.25	SCH-11-13-01	08/11/2016	Soil	1
84012.26	SCH-11-13-03	08/11/2016	Soil	1
84012.27	SCH-11-13-06	08/11/2016	Soil	1
84012.28	SCH-11-14-01	08/11/2016	Soil	1
84012.29	SCH-11-14-03	08/11/2016	Soil	1
84012.30	SCH-11-14-06	08/11/2016	Soil	1

Method ^ Submethod	Req Date	Priority	TAT	Units
(6010B.LEAD)	08/12/2016	2	Rush	mg/Kg

The samples were analyzed as specified on the enclosed chain of custody.
No analytical non-conformances were encountered.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Checked By: _____ Approved By: C. Razmara

Cyrus Razmara, Ph.D.
Laboratory Director

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Site

Eastman Ave. ES
4112 E Olympic Blvd.
Los Angeles, CA 90023

Telephone: (626)440-6161
Attn: Shala Craig
Page: **2**

Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C2

Our Lab I.D.			Method Blank	84012.01	84012.02	84012.03	84012.04
Client Sample I.D.				SCH-11-06-01	SCH-11-06-03	SCH-11-06-06	SCH-11-07-01
Date Sampled				08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	69.8	97.8	86.5	71.5

American Environmental Testing Laboratory Inc.
2834 & 2908 North Naomi Street Burbank, CA 91504 • DOHS NO: 1541, LACSD NO: 10181
Tel: (888) 288-AETL • (818) 845-8200 • Fax: (818) 845-8840 • www.aetlab.com

ANALYTICAL RESULTS

Ordered By

Parsons
100 West Walnut Street
Pasadena, CA 91124-

Site

Eastman Ave. ES
4112 E Olympic Blvd.
Los Angeles, CA 90023

Telephone: (626)440-6161
Attn: Shala Craig
Page: **3**

Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C2

Our Lab I.D.			84012.05	84012.06	84012.07	84012.08	84012.09
Client Sample I.D.			SCH-11-07-03	SCH-11-07-06	SCH-11-07-06D	SCH-11-08-01	SCH-11-08-03
Date Sampled			08/11/2016	08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	80.6	57.5	58.3	67.8	48.4

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Site

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Los Angeles, CA 90023

Telephone: (626)440-6161
Attn: Shala Craig
Page: **4**

Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C2

Our Lab I.D.			**84012.10**				
Client Sample I.D.			SCH-11-08-06				
Date Sampled			08/11/2016				
Date Prepared			08/12/2016				
Preparation Method			3050B				
Date Analyzed			08/13/2016				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	47.6				

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C3

Our Lab I.D.			Method Blank	84012.11	84012.12	84012.13	84012.14
Client Sample I.D.				SCH-11-09-01	SCH-11-09-03	SCH-11-09-03D	SCH-11-09-06
Date Sampled				08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	65.2	52.5	57.3	63.6

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C3

Our Lab I.D.			84012.15	84012.16	84012.17	84012.18	84012.19
Client Sample I.D.			SCH-11-10-01	SCH-11-10-03	SCH-11-10-06	SCH-11-11-01	SCH-11-11-03
Date Sampled			08/11/2016	08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	53.3	56.2	38.7	42.1	39.9

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C3

Our Lab I.D.			**84012.20**				
Client Sample I.D.			SCH-11-11-06				
Date Sampled			08/11/2016				
Date Prepared			08/12/2016				
Preparation Method			3050B				
Date Analyzed			08/13/2016				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	14.5				

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C4

Our Lab I.D.			Method Blank	84012.21	84012.22	84012.23	84012.24
Client Sample I.D.				SCH-11-11-06D	SCH-11-12-01	SCH-11-12-03	SCH-11-12-06
Date Sampled				08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	ND	13.7	39.3	24.8	18.8

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C4

Our Lab I.D.			84012.25	84012.26	84012.27	84012.28	84012.29
Client Sample I.D.			SCH-11-13-01	SCH-11-13-03	SCH-11-13-06	SCH-11-14-01	SCH-11-14-03
Date Sampled			08/11/2016	08/11/2016	08/11/2016	08/11/2016	08/11/2016
Date Prepared			08/12/2016	08/12/2016	08/12/2016	08/12/2016	08/12/2016
Preparation Method			3050B	3050B	3050B	3050B	3050B
Date Analyzed			08/13/2016	08/13/2016	08/13/2016	08/13/2016	08/13/2016
Matrix			Soil	Soil	Soil	Soil	Soil
Units			mg/Kg	mg/Kg	mg/Kg	mg/Kg	mg/Kg
Dilution Factor			1	1	1	1	1
Analytes	**MDL**	**PQL**	**Results**	**Results**	**Results**	**Results**	**Results**
Lead	2.5	5.0	39.9	27.0	12.1	65.7	58.0

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C4

Our Lab I.D.			**84012.30**				
Client Sample I.D.			SCH-11-14-06				
Date Sampled			08/11/2016				
Date Prepared			08/12/2016				
Preparation Method			3050B				
Date Analyzed			08/13/2016				
Matrix			Soil				
Units			mg/Kg				
Dilution Factor			1				
Analytes	**MDL**	**PQL**	**Results**				
Lead	2.5	5.0	31.6				

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C2; Dup or Spiked Sample: 84012.01; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	69.8	50.0	111	82.4	50.0	110	80.4	2.46	75-125	<15

QC Batch No: 0812162C2; Dup or Spiked Sample: 84012.01; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	51.6	103	50.0	51.2	102	<1	75-125	<15	

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C3; Dup or Spiked Sample: 84012.11; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	65.2	50.0	117	104	50.0	115	99.6	4.32	75-125	<15

QC Batch No: 0812162C3; Dup or Spiked Sample: 84012.11; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	50.2	100	50.0	50.6	101	<1	75-125	<15	

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Project ID: 449646-01017
Project Name: DTSC Exide Offsite Sampling

AETL Job Number	Submitted	Client
84012	08/11/2016	PARSNS

Method: (6010B.LEAD), Lead, ICP

QC Batch No: 0812162C4; Dup or Spiked Sample: 84012.21; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	Sample Result	MS Concen	MS Recov	MS % REC	MS DUP Concen	MS DUP Recov	MS DUP % REC	RPD %	MS/MSD % Limit	MS RPD % Limit
Lead	13.7	50.0	54.3	81.2	50.0	52.7	78.0	4.02	75-125	<15

QC Batch No: 0812162C4; Dup or Spiked Sample: 84012.21; LCS: Clean Sand; QC Prepared: 08/12/2016; QC Analyzed: 08/13/2016; Units: mg/Kg

Analytes	LCS Concen	LCS Recov	LCS % REC	LCS DUP Concen	LCS DUP Recov	LCS DUP % REC	LCS RPD % REC	LCS/LCSD % Limit	LCS RPD % Limit	
Lead	50.0	47.8	95.6	50.0	46.8	93.6	2.11	75-125	<15	

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Data Qualifiers and Descriptors

Data Qualifier:

#:	Recovery is not within acceptable control limits.
*:	In the QC section, sample results have been taken directly from the ICP reading. No preparation factor has been applied.
B:	Analyte was present in the Method Blank.
D:	Result is from a diluted analysis.
E:	Result is beyond calibration limits and is estimated.
H:	Analysis was performed over the allowed holding time due to circumstances which were beyond laboratory control.
J:	Analyte was detected . However, the analyte concentration is an estimated value, which is between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL).
M:	Matrix spike recovery is outside control limits due to matrix interference. Laboratory Control Sample recovery was acceptable.
MCL:	Maximum Contaminant Level
NS:	No Standard Available
S6:	Surrogate recovery is outside control limits due to matrix interference.
S8:	The analysis of the sample required a dilution such that the surrogate concentration was diluted below the method acceptance criteria.
X:	Results represent LCS and LCSD data.

Definition:

%Limi:	Percent acceptable limits.
%REC:	Percent recovery.
Con.L:	Acceptable Control Limits
Conce:	Added concentration to the sample.
LCS:	Laboratory Control Sample
MDL:	Method Detection Limit is a statistically derived number which is specific for each instrument, each method, and each compound. It indicates a distinctively detectable quantity with 99% probability.

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Data Qualifiers and Descriptors

MS:	Matrix Spike
MS DU:	Matrix Spike Duplicate
ND:	Analyte was not detected in the sample at or above MDL.
PQL:	Practical Quantitation Limit or ML (Minimum Level as per RWQCB) is the minimum concentration that can be quantified with more than 99% confidence. Taking into account all aspects of the entire analytical instrumentation and practice.
Recov:	Recovered concentration in the sample.
RPD:	Relative Percent Difference

Department of Toxic Substances Control

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Edmund G. Brown Jr.
Governor

TO: Peter Ruttan, P.G.
Project Manager
Department of Toxic Substances Control
Sacramento, California

FROM: Shukla Roy-Semmen, Ph.D.
Staff Toxicologist
Human and Ecological Risk Office

DATE: August 16, 2016

SUBJECT: Review of soils data collected from Eastman Avenue Elementary School, located in the vicinity of the former Exide secondary smelter in Vernon, California.

PCA: 11006 Site Code: 900219-00

At the request of the Brownfields and Environmental Restoration program, the Human and Ecological Risk Office (HERO) reviewed surface soils data collected from the Eastman Avenue Elementary school, located at 4112 East Olympic Boulevard, Los Angeles, California 90023. Soils were collected from nine (9) locations onsite, from three depths below ground surface (0-1", 1-3" and 3-6"), and analyzed for lead using USEPA's SW846 method 6010B. Soil samples were collected by Parsons, under DTSC oversight. Results of the analysis were provided electronically as a summary table and the original laboratory report from American Environmental Testing Laboratory.

A review of the data indicates that (a) two out of 27 soil samples had lead concentrations that slightly exceeded (97.8 mg/kg and 86.5 mg/kg) the residential screening level of 80 mg/kg for lead, (b) concentrations of lead at all locations and sampling depths were below a lead soil screening level of 110 mg/kg, derived for a five day per week exposure period, that is typical of a school child. However, since there are no plans to change site use to a residential setting, comparison to a screening level of 110 mg/kg for a school child exposure scenario is reasonable. Therefore, no cleanup or mitigation measures are necessary for the site.

HERO notes that the decisions made in this document are site specific and should not be construed as a policy decision applicable to other sites. If you have additional questions please feel free to contact me at (714) 484-5448 or SRoysemm@dtsc.ca.gov.

Reviewed by: Jim Polisini, Ph.D.
Supervising Toxicologist
Human and Ecological Risk Office

For J.P.