

WATERSTONE ENVIRONMENTAL, INC.

2936 E. CORONADO STREET * ANAHEIM * CA 92806 714-414-1122 * FAX: 714-414-1166

December 17, 2015

Los Angeles Unified School District Office of Environmental Health and Safety 333 South Beaudry Street, 21st Floor Los Angeles, California 90017-5156

Re: Air Testing Results for Porter Ranch Community School in Porter Ranch, California

Waterstone Environmental, Inc. (Waterstone) is pleased to submit this letter report detailing the results of recent air testing and sample collection at the Porter Ranch Community School located at 12450 Mason Avenue, Porter Ranch, California.

Waterstone has collected air samples and conducting real time air monitoring using various handheld monitors. This report summarizes the results of air sample analysis for samples collected on December 11, 2015.

Sample Collection and Analysis

Sample collection consisted of both grab samples (approximately 2 minute sample filling period) in tedlar bags as well as 8-hour samples collected in a summa canisters in the indoor school office. The summa canisters were placed in the breathing zone and allowed to sit undisturbed for a period of 8 hours.

One tedlar bag sample and one summa canister sample were delivered to Quantum Analytical Services Inc., a laboratory certified by the South Coast Air Quality Management District (SCAQMD) and the California Air Resources Board (CARB). Both samples were submitted for analysis of sulfur compounds by SCAQMD Method 307-91, and hydrocarbon speciation by modified EPA 18. The complete laboratory report with analysis results is attached.

Three tedlar bag samples and one summa canister sample were delivered to Air Technology Laboratories, Inc., a laboratory accredited by the National Environmental Laboratory Accreditation Program (NELAP). Samples were submitted for analysis of BTEX by EPA Method TO-15. The complete laboratory report with analysis results is attached.

Real time air monitoring was conducted in indoor and outdoor spaces using a Micro Flame Ionization Detector (FID) to measure volatile organic compounds (VOCs) as an indicator of the potential presence of methane, a Jerome J631X for hydrogen sulfide detection, a photo ionization detector (PID) to measure VOCs as an indicator of the potential presence of benzene, and dräger tubes for benzene, toluene, ethylbenzene, and xylenes.



Analytical Results

The sample IDs created to refer to Porter Ranch Community School are designated with a "PR" in the sample ID. The analytical results for Porter Ranch Community School presented in the attached laboratory reports are summarized as follows:

- > No sulfur compounds were detected at concentrations above laboratory detection limits.
- Methane was detected at a maximum concentration of 3,270 parts per billion by volume (ppbv) and below the environmental screening limits for methane of 500,000 ppbv used by the Department of Toxic Substances Control (DTSC) and 1,000,000 ppbv used by the National Institute for Occupational Safety (NIOSH). Additionally, methane was not detected at a concentration that requires a fire contingency plan (8,800,000 ppbv) as required by the Los Angeles County Building Code.
- ➤ No benzene was detected at concentrations above laboratory detection limits.
- ➤ The maximum concentration of toluene detected was 0.98 ppbv and below the environmental screening limits for toluene of 9,640 ppbv used by OEHHA for a 1-hour acute exposure.
- ➤ The maximum concentration of ethylbenzene detected was 0.22 ppbv and below the environmental screening limits for ethylbenzene of 450 ppbv used by OEHHA for a chronic (lifetime) exposure.
- ➤ The maximum concentration of xylene detected was 0.77 ppbv and below the environmental screening limits for xylene of 4,970 ppbv used by OEHHA for a 1-hour acute exposure.

| Analyte | Maximum On-site Detection (ppby) | Environmental Regulatory Limit (ppbv) | Environmental Regulatory Limit Description |
|---------------------|----------------------------------|---|--|
| Sulfide | None | 30 (Hydrogen | California Ambient Air – 1 hour and OEHHA Acute REL |
| Compounds | None | Sulfide) | (42 ug/m ³)* |
| | | 7 (Hydrogen Sulfide) | OEHHA Chronic REL (10 ug/m³)* |
| Methane | 3,270 | 500,000 | DTSC Site-Specific Screening Level (for ambient indoor and outdoor air). http://www.hawaiidoh.org/references/CalEPA%202005b.pdf |
| | | 1,000,000 | NIOSH maximum recommended safe methane concentration for workers during an 8-hour period. http://www.cdc.gov/niosh/ipcsneng/neng0291.html |
| Ethane, Ethylene | None | 1,000,000 | NIOSH maximum recommended safe ethane concentration for workers during an 8-hour period. http://www.cdc.gov/niosh/ipcsneng/neng0266.html |



| Analyte | Maximum On-site Detection (ppby) | Environmental Regulatory Limit (ppbv) | Environmental Regulatory Limit Description |
|--|----------------------------------|---|--|
| Timayee | фрил | 2,000,000 | NIOSH maximum recommended safe ethylene concentration for workers during an 8-hour period. http://www.cdc.gov/niosh/ipcsneng/neng0475.html |
| Other Hydrocarbon Speciations by EPA 18 | None | 1,950 (Hexane) | OEHHA Chronic REL (7,000 ug/m³)* |
| Benzene | None | 8 | OEHHA Acute REL (27 ug/m³)* 8-hour and chronic OEHHA RELs (3 ug/m³)* |
| Toluene | 0.98 | 9,640 80 | OEHHA Acute REL (37,000 ug/m³)* OEHHA Chronic REL (300 ug/m³)* |
| Ethylbenzene | 0.22 | 450 | OEHHA Chronic REL (2,000 ug/m³)* |
| Xylenes | 0.77 | 4,970 160 | OEHHA Acute REL (22,000 ug/m³)* OEHHA Chronic REL (700 ug/m³)* |

^{*} OEHHA RELs listed in micrograms per cubic meter (ug/m³) have been converted to ppbv using the molecular weight of each specific chemical. http://oehha.ca.gov/air/allrels.html

Real Time Monitoring Results

The real time monitoring logs are attached. In-field air monitoring results are summarized as follows:

- Methane (as indicated by total VOCs), hydrogen sulfide, benzene, toluene, ethylbenzene, and xylenes were not detected during field monitoring.
- ➤ VOCs were detected at concentration of 0.2 ppm. Although VOC readings measure all volatile constituents and are not chemical specific, to rule out the potential presence benzene, numerous samples were collected and submitted to the laboratory for benzene analysis. As indicated above, no benzene was detected in any of the samples submitted for laboratory analysis.

The majority of the regulatory limits we are comparing against are Reference Exposure Levels (RELs) developed and published by California's Office of Environmental Health Hazards (OEHHA). OEHHA is one of six agencies under the umbrella of the California Environmental Protection Agency (Cal/EPA). OEHHA's overall mission is to protect and enhance public health and the environment by scientific evaluation of risks posed by hazardous substances.

OEHHA evaluates health effects of chemicals found in indoor air, including developing Reference Exposure Levels for use with indoor air exposure scenarios. OEHHA participates in a number of inter-Agency activities designed to evaluate indoor air quality health issues and to move California toward safer indoor air quality. OEHHA provides health-related assistance to



the Air Resources Board, air pollution control districts, local health officers and environmental health officers.

Methane was compared to the DTSC Site-Specific Screening Level for ambient indoor and outdoor air as well as the NIOSH maximum recommended safe methane concentration for workers during an 8-hour period.

As shown in the table above, the maximum on-site detections are well below the published environmental regulatory limits.

Sincerely,

Attachments

Elizabeth Gonzalez, P.E. Principal Engineer

Waterstone Environmental, Inc.

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Grace M. Rinck, CIH *Vice-President*

Aurora Industrial Hygiene, Inc.



CLIENT

Waterstone Environmental

PROJECT NO:

LAUSD - SoCal Gas

LABORATORY NO:

15-978

SAMPLING DATE:

December 11, 2015 December 11, 2015

RECEIVING DATE:

December 11, 2015

ANALYSIS DATE: REPORT DATE:

December 12, 2015

ΓE: December 14, 2015

Laboratory Analysis Report

| Analysis Method | SCAQMD 307- | 91 | | | |
|-----------------------|---------------|--------------------------|-------------|-------------|--------------------------|
| Detection Limits | 5.0 PPBV | | | | |
| | Client ID | PR-Summa- 10 (Tk 105) | PR-10 (Bag) | CB-10 (Bag) | CB-Summa- 10 (Tk 106) |
| | Sampling Time | 0637 | 1113 | 1257 | 1429 |
| | Sampling Date | 12/11/15 | 12/11/15 | 12/11/15 | 12/11/15 |
| | Lab ID | 34515-29 | 34515-30 | 34515-31 | 34515-32 |
| Analyte | Units | PPBV | PPBV | PPBV | PPBV |
| Hydrogen Sulfide | | < 5.0 | <5.0 | <5.0 | <5.0 |
| Carbonyl Sulfide | | <5.0 | <5.0 | <5.0 | <5.0 |
| Methyl Mercaptan | | <5.0 | <5.0 | <5.0 | <5.0 |
| Ethyl Mercaptan | | <5.0 | <5.0 | <5.0 | <5.0 |
| Carbon Disulfide | | < 5.0 | <5.0 | < 5.0 | <5.0 |
| t- Butyle Mercaptan | | < 5.0 | < 5.0 | <5.0 | <5.0 |
| Tetra hydro-thiophene | | <5.0 | < 5.0 | < 5.0 | <5.0 |
| Un-Identified S Compo | unds | <5.0 | <5.0 | <5.0 | <5.0 |
| TRS as H2S | | <40.0 | <40.0 | <40.0 | <40.0 |

TRS: Total Reduced Sulfur as Hydrogen Sulfide

PPBV: Parts Per Billion-Volume

Dr. Andrew Kitto



CLIENT

Waterstone Environmental

CLIENT PROJECT:

LAUSD - SoCal Gas

LAB PROJ NO:

15-978

SAMPLING DATE:
RECEIVING DATE:

December 11, 2015

RECEIVING DATE:

December 11, 2015 December 12, 2015

ANALYSIS DATE: REPORT DATE:

December 14, 2015

Quality Assurance Report

Duplicate Analysis

Sample ID: CB-Summa-10 (Tk 106)

LAB ID: 34515-32

| Analysis Method | | SCAQMD 307-91 | | | | | | | | | | | |
|--------------------------|------------------|----------------------------|-----------------|----------------------|--|--|--|--|--|--|--|--|--|
| Detection Limit | | 5.0 PPBV | | | | | | | | | | | |
| Analyte | Aver. Conc. PPBV | Dil. Factor Ambient Air | DF*A/CF PPBV | % Sample Recovery | | | | | | | | | |
| Hydrogen Sulfide | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Carbonyl Sulfide | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Methyl Mercaptan | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Ethyl Mercaptan | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Carbon Disulfide | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| t- Butyle Mercaptan | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Tetra hydro-thiophene | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Unidentified S Compounds | <5.0 | 1 | <5.0 | N/A | | | | | | | | | |
| Total Sulfur as H2S | <40.0 | 1 | <40.0 | N/A | | | | | | | | | |

N/A: Not Applicable

Dr. Andrew Kitto



CLIENT Waterstone Environmental

CLIENT PROJECT: LAUSD - SoCal Gas

LAB PROJ NO: 15-978

SAMPLING DATE: December 11, 2015
RECEIVING DATE: December 11, 2015
ANALYSIS DATE: December 12, 2015
REPORT DATE: December 14, 2015

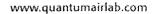
Laboratory Analysis Report (1 of 4)

| Analysis Method | EPA 18 | | | | |
|-------------------------|---------------|-------------------------|-------------|-------------|-------------------------|
| Detection Limits | 0.2 PPMV | | | | |
| | Sample ID | PR-Summa-10 (Tk 105) | PR-10 (Bag) | CB-10 (Bag) | CB-Summa-10 (Tk 106) |
| | Sample Time | 0637 | 1113 | 1257 | 1429 |
| | Sampling Date | 12/11/15 | 12/11/15 | 12/11/15 | 12/11/15 |
| | Lab ID | 34515-29 | 34515-30 | 34515-31 | 34515-32 |
| ANALYTE | Units | PPMV | PPMV | PPMV | PPMV |
| C1 - Methane | | 3.27 | 2.99 | 2.91 | 4.46 |
| C2 - Ethane, Ethylene | | <0.2 | <0.2 | <0.2 | <0.2 |
| C3 - Propane | | <0.2 | <0.2 | <0.2 | <0.2 |
| Iso Butane | | <0.2 | <0.2 | <0.2 | <0.2 |
| n- Butane | | < 0.2 | < 0.2 | <0.2 | <0.2 |
| Iso-Pentane | | <0.2 | <0.2 | < 0.2 | <0.2 |
| n-Pentane | | <0.2 | <0.2 | <0.2 | <0.2 |
| C6 - Hexanes | | < 0.2 | < 0.2 | <0.2 | <0.2 |
| C6+ | | <0.2 | <0.2 | < 0.2 | <0.2 |
| TNMHC | | <1.0 | <1.0 | <1.0 | <1.0 |

TNMHC - Total Non-Methane HydroCarbon

PPMV: Parts Per Million-Volume

Dr. Andrew Kitto





CLIENT Waterstone Environmental

LAB PROJ NO: 15-978

SAMPLING DATE: December 11, 2015
RECEIVING DATE: December 11, 2015
ANALYSIS DATE: December 12, 2015
REPORT DATE: December 14, 2015

EPA 18 - Laboratory Analysis Report (QA-QC)

Sample ID: CB-Summa-10 (Tk 106)

Sample ID: 34515-32

| Analyte | Analysis #1 PPMV | Analysis #2 PPMV | Mean PPMV | % Difference from the Mean* |
|-----------------------|---------------------|---------------------|--------------|--------------------------------|
| C1 - Methane | 4.46 | 4.36 | 4.41 | 1.1 |
| C2 - Ethane, Ethylene | < 0.2 | < 0.2 | < 0.2 | N/A |
| C3 - Propane | <0.2 | < 0.2 | < 0.2 | N/A |
| iso-Butane | < 0.2 | <0.2 | < 0.2 | N/A |
| n-Butane | < 0.2 | < 0.2 | <0.2 | N/A |
| iso- Pentane | < 0.2 | < 0.2 | < 0.2 | N/A |
| n-Pentane | < 0.2 | <0.2 | <0.2 | N/A |
| C6 - Hexanes | < 0.2 | <0.2 | < 0.2 | N/A |
| C6+ | <0.2 | <0.2 | <0.2 | N/A |

N/A: Not Applicable

*:Must be ≤10%

Dr. Andrew Kitto



CLIENT

Waterstone Environmental

LAB PROJ NO:

15-978

SAMPLING DATE:

December 11, 2015

RECEIVING DATE:

December 11, 2015

ANALYSIS DATE:

December 12, 2015

REPORT DATE:

December 14, 2015

Quality Control/Quality Assurance Report

I- Blank

| Lab ID | Results PPMV |
|--------------|--------------|
| C1 - Methane | <0.2 |
| C2 - Ethane | <0.2 |
| C3 - Propane | <0.2 |
| C4 - Butane | <0.2 |
| C5 - Pentane | <0.2 |
| C6 - Hexane | <0.2 |

II- Initial Calibration Verification Standard (ICV)

| Lab ID | Theoretical Value PPMV | Tested Value PPMV | % Recovery* |
|--------------|------------------------|----------------------|----------------|
| C1 - Methane | 14.99 | 15.20 | 101% |
| C2 - Ethane | 15.12 | 14.74 | 97% |
| C3 - Propane | 15.27 | 15.06 | 99% |
| C4 - Butane | 15.04 | 14.78 | 98% |
| C5 - Pentane | 15.04 | 14.43 | 96% |
| C6 - Hexane | 14.95 | 13.70 | 92% |

^{*} Must be ±10%

III- Closing Calibration Verification Standard (CCV)

| Lab ID | Theoretical Value PPMV | Tested Value PPMV | % Recovery* |
|--------------|------------------------|----------------------|----------------|
| C1 - Methane | 3.00 | 3.04 | 101% |
| C2 - Ethane | 3.02 | 3.01 | 100% |
| C3 - Propane | 3.05 | 3.19 | 105% |
| C4 - Butane | 3.00 | 3.10 | 103% |
| C5 - Pentane | 3.00 | 3.03 | 101% |
| C6 - Hexane | 2.99 | 3.02 | 101% |

* Must be ±10%

Dr. Andrew Kitto



15-978

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| CHAIN OF CUST | | | | | | | | | | | Page: | of: Z | | | |
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CHAIN OF CUSTODY

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| Relingu | Relinquished by: Signature) Received by: (Sign | | | | | | (Signati | ure/Affili | ation) | | 11110000 | | | | | - | | Date: | | | - | Time; | | | | | | | |

Client:

Waterstone Environmental, Inc.

Attn:

Elizabeth Gonzalez

Project Name:

LAUSD Porter Ranch

Project No.:

15-202

Date Received:

12/11/15

Matrix:

Air

Reporting Units: ppbv

EPA Method TO15

| Lab No.: | G12110 | 06.01 | G12110 | 06.02 | | T | |
|---------------------|----------------|--------------|----------------|------------|---|--------------|--|
| Lau No | GIZII | 70-01 | GIZII | 00-02 | | <u> </u> | |
| Client Sample I.D.: | PR-SUM | PR-SUMMA -10 | | 10 | | | |
| Date/Time Sampled: | 12/11/15 6:38 | | 12/11/15 | 5 11:13 | | | |
| Date/Time Analyzed: | 12/12/15 7:11 | | 12/12/1 | 5 7:53 | | | |
| QC Batch No.: | 151211MS2A1 | | 151211N | MS2A1 | | | |
| Analyst Initials: | DT | | D' | Γ | | | |
| Dilution Factor: | 0.2 | 0 | 0.2 | 20 | | | |
| ANALYTE | Result ppbv | RL ppbv | Result ppbv | RL ppbv | | | |
| Benzene | ND | 0.20 | ND | 0.20 | *************************************** | | |
| Toluene | ND | 0.20 | 0.92 | 0.20 | | | |
| Ethylbenzene | ND | 0.20 | 0.20 | 0.20 | | | |
| p,&m-Xylene | ND | ND 0.20 | | 0.20 | | a emerge | |
| o-Xylene | 0.66 | 0.20 | 0.33 | 0.20 | | | |
| | | | | | | | |

| MID - | Nat | Data | ctod | (below | DI |
|-------|-----|------|------|--------|----|
| | | | | | |

RL = Reporting Limit

| Reviewed/Approved By: | MACH. | Date Plyls |
|-----------------------|--------------------|------------|
| | Mark Johnson | |
| | Operations Manager | |

| 0.000 | 202 | |
|-------|---------|-----|
| 6 | - 0 m 4 | - 0 |
| 6 | neni | 100 |

Waterstone Environmental, Inc.

Attn:

Elizabeth Gonzalez

Project Name:

LAUSD Porter Ranch

Project No.:

15-202

Date Received:

12/11/15

Matrix:

Air

Reporting Units: ppbv

EPA Method TO15

| Lab No.: | METHOD | BLANK | | | | | |
|---------------------|----------------|----------------|--|--|---|-----|--|
| Client Sample I.D.: | - | - | | | | | |
| Date/Time Sampled: | - | - | | | | | |
| Date/Time Analyzed: | 12/11/15 | 12/11/15 21:48 | | | | | |
| QC Batch No.: | 151211N | 151211MS2A1 | | | | | |
| Analyst Initials: | D | DT | | | | | |
| Dilution Factor: | 0.2 | 0 | | | | | |
| ANALYTE | Result ppbv | RL ppbv | | | | t a | |
| Benzene | ND | 0.20 | | | | | |
| Toluene | ND | 0.20 | | | | | |
| Ethylbenzene | ND | 0.20 | | | | 8 | |
| p,&m-Xylene | ND | 0.20 | | | | | |
| o-Xylene | ND | 0.20 | | | 5 | | |
| | | | | | | | |

| ND = | Not | Detected | (belo | w RL) |
|------|------|----------|-------|---------|
| | 1100 | Detected | (nero | VV ILLI |

RL = Reporting Limit

| Reviewed/Approved By: | Mall-1 | Date p/19/15 | |
|-----------------------|------------------------------------|--------------|--|
| | Mark Johnson Operations Manager | | |

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 151211MS2A1

Matrix: Air

| | | EPA : | Method | 1 TO-1 | 4/TO-1: | 5 | | | | | | | | |
|---------------------------|----------------|-----------------|----------------|---------|----------------|---------|-----|-------------|--------------|-------------|---------------|--|--|--|
| Lab No: | Method Blank | | L | CS | LC | SD | | | | | | | | |
| Date/Time Analyzed: | 12/11/15 21:48 | | 12/11/1 | 5 20:29 | 12/11/1 | 5 21:07 | | | | | | | | |
| Data File ID: | 11DEC007.D | | 11DE | C005.D | 11DEC | C006.D | | | | | | | | |
| Analyst Initials: | DŤ | | D | T | D | T | | | | | | | | |
| Dilution Factor: | 0.2 | | 1 | .0 | 1 | .0 | | | Limits | | | | | |
| ANALYTE | Result ppbv | Spike Amount | Result ppbv | % Rec | Result ppbv | % Rec | RPD | Low %Rec | High %Rec | Max. RPD | Pass/ Fail | | | |
| 1,1-Dichloroethene | 0.0 | 10.0 | 10.4 | 104 | 10.2 | 102 | 2.5 | 70 | 130 | 30 | Pass | | | |
| Methylene Chloride | 0.0 | 10.0 | 11.1 | 111 | 10.8 | 108 | 3.0 | 70 | 130 | 30 | Pass | | | |
| Trichloroethene | 0.0 | 10.0 | 10.6 | 106 | 10.3 | 103 | 2.8 | 70 | 130 | 30 | Pass | | | |
| Toluene | 0.0 | 10.0 | 10.5 | 105 | 10.2 | 102 | 2.9 | 70 | 130 | 30 | Pass | | | |
| 1,1,2,2-Tetrachloroethane | 0.0 | 10.0 | 11.1 | 111 | 10.7 | 107 | 3.6 | 70 | 130 | 30 | Pass | | | |

RPD = Relative Percent Difference

| Reviewed/Approved By: | | 11 | 1/ | fall. | 1 | Date: | Phylis |
|-----------------------|--------------------|----|----|-------|---|-------|--------|
| | Mark Johnson | V | 70 | | | _ | V |
| | Operations Manager | | | | | | |



Calscience

| CI | HA | NN. | -OF | -CL | IST | ODY | REC | ORE |
|----|----|-----|-----|-----|-----|-----|-----|-----|
|----|----|-----|-----|-----|-----|-----|-----|-----|

DATE: 12 - 11 - 15

| 7440 L For cou | incoln Way, Garden Grove, CA 9 urier service / sample drop off info | 2841-1427 • (71 | 4) 895-5494 | ofineus com or a | عبد العج | | | | | C | 3 | 12 | 410 | 25 | _5 | 2/16 | 12 | | | 9 | PAGE: | | / | OF | j | |
|-------------------|--|-----------------|--|--|----------|-------------|-----------|----------------|----------------|----------------|---------------|------------------|--------------------|-------------|-------------------|------------------------------------|--------------|-------------------|-------------|-----------------|------------------------|---------------|---------|--------|--------|-----|
| LABORA | TORY CLIENT: | | | all a second | | | | | CLIEN | By M. C. | CT NAM | 25 | | | N/E FIF | 100 | 1,1 | | | P.O. N | 10 · | | | | | |
| | WATERST | INE EN | WIRCOV. | MENT | AL /1 | ve: | | | l | | | | | | | 11 | | | | 1 .0.14 | O., | | | | | , |
| ADDRES | SS: | | | | | | | **** | | LA | AUS NTACT: | D | | | | | | | | | 2 | | | | | |
| CITY; | 0 | | STATE: | <u>1</u> | 7/0 | | | | -8 | | | | | | | | | | | LAB CO | ONTACT | OR QUO | TE NO.: | | | |
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| TEL: | ()(() | E-MAIL; | | | | | | | GLOB | AL ID: | Cic | 251 6 | 46 | E 6 | LOGC | ODE: | | | | CAMDI | LER(S): (I | (DDAIT) | | _ | | |
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| | ROUND TIME (Rush surcharges may ap | | | | | | | | | | | | | | | | | | | Ke | 23E | 21 | 15 | ZKI | 2 | |
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| SPECIAL | . INSTRUCTIONS: | | | | | 7 | 1 | | ├ ─ | T | Ι | т | | · | 10000 | I I | TOX GI I | T | 1 | Ticcueu | 1. | | | | | |
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| | | | | | | 70 | | 70 | □ TPH(g) □ GRO | □ TPH(d) □ DRO | 38 | | BTEX/MTBE □ 8260 🖟 | _ | Oxygenates (8260) | Prep (5035) □ En Core □ Terra Core | (0 | Pesticides (8081) | | | 160 | 9 | | . 1 | | |
| LAB | | SAM | PLING | | NO. | Unpreserved | pa | Field Filtered | (G | 9 | □ C6-C36 | | MTB | VOCs (8260) | ates | (32) | SVOCs (8270) | 8) SE | 082) | □ 8270 □ | SE | 719 | | . 1 | | |
| USE | SAMPLE ID | 12000 | ************************************** | MATRIX | OF | Jese | Preserved | 臣 | H. | H. | | | × | 3) 83 | gene | (20 | Cs | icide | 8) 9 | os l | Met | | | . 1 | | |
| 927 | | DATE | TIME | | CONT. | 5 | Pre | 正 | | | HAT. | I H | BTE | NOV | Öxò | Prep | SVC | Pest | PCBs (8082) | PAHs | T22 Metals 🗆 6010/747X | Cr(VI) 🗆 7196 | | | | |
| 01 | PR-10-L | 12-11-15 | 0740 | | | | | | | | | | × | | | | | | | | | | | | | |
| 02 | PR-10-B | | 0755 | | | | | | | | | | X | | | | | | | | | | | | | |
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| - 12.7 | - 1 | | | | | | | | 1 | | | | | | | | | | | \vdash | | | | | | |
| Relingo | isned by: (Signature) | | | 1 | L | Rece | ved by: | (Signati | ure/Affil | iation)/ |) | | | | | | | | Date: | | | | Time: | | | |
| 12 | 15 /m | | | | | | | | / | K | | ナ | | | | | | | / | 2.11 | 1.15 | 5 | 11 | :3 | \cap | |
| Relinqu | ished by: (Signature) | LAN | | -11/2/02/07/07 | | Rece | ved by: | (Signate | pre Affil | iation) | / | - invis- | | - | | | | | Date: | | | | Time: | | _ | |
| - | ESSENT | 18/ | | | | | ()- | | / /~ | 5- | | 1220 100 100 100 | | | | | | | 124 | 11/ | 17 | | 15 | 20 | 2 | / |
| Relinqu | ished by: (Signature) | 5.V Val: | | 100 | | Rese | vet by: | (Signati | une/Affil | iation) | | | | | | | | | Date | | | | Time: | - 0 | | |
| | | | | | | | | | 1 | 1 | | | | | | | | | | * | | - 1 | 1 | | | - 1 |

Client:

Waterstone Environmental, Inc.

Attn:

Elizabeth Gonzalez

Project Name:

LAUSD Porter Ranch

Project No.:

15-202

Date Received:

12/11/15

Matrix:

Air

Reporting Units: ppbv

EPA Method TO15

| Lab No.: | G12110 | 05-01 | G1211 | 05-02 | | | |
|---------------------|----------------|----------------|----------------|------------|--|---|--|
| Client Sample I.D.: | PR-1 | PR-10-L | | 0-В | | | |
| Date/Time Sampled: | 12/11/1: | 12/11/15 7:40 | | 5 7:55 | | | |
| Date/Time Analyzed: | 12/11/15 | 12/11/15 23:48 | | 5 0:29 | | | |
| QC Batch No.: | 151211MS2A1 | | 151211N | MS2A1 | | | |
| Analyst Initials: | DT | | D' | Γ | | | |
| Dilution Factor: | 0.2 | 0 | 0.2 | 20 | | | |
| ANALYTE | Result ppbv | RL ppbv | Result ppbv | RL ppbv | | | |
| Benzene | ND | 0.20 | ND | 0.20 | | | |
| Toluene | 0.90 | 0.20 | 0.98 | 0.20 | | | |
| Ethylbenzene | 0.21 | 0.20 | 0.22 | 0.20 | | | |
| p,&m-Xylene | 0.75 | 0.20 | 0.76 | 0.20 | | | |
| o-Xylene | 0.31 | 0.20 | 0.32 | 0.20 | | - | |
| | | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

Reviewed/Approved By: **Operations Manager**

Date Mylis

| | 1.5 | 1000 | 4 - |
|-----|-----|------|------|
| E 1 | п | en | T. o |
| | | | |

Waterstone Environmental, Inc.

Attn:

Elizabeth Gonzalez

Project Name:

LAUSD Porter Ranch

Project No.:

15-202

Date Received:

12/11/15

Matrix:

Air

Reporting Units: ppbv

EPA Method TO15

| | | | | | | |
|---------------------|----------------|------------|-----|------|---|--|
| Lab No.: | METHOD | BLANK | | | | |
| Client Sample I.D.: | | | | | | |
| Date/Time Sampled: | - | | N N | | | |
| Date/Time Analyzed: | 12/11/15 | 5 21:48 | | | | |
| QC Batch No.: | 151211N | AS2A1 | | | | |
| Analyst Initials: | D | Γ | | | N | |
| Dilution Factor: | 0.2 | 0 | | | | |
| ANALYTE | Result ppbv | RL ppbv | | | | |
| Benzene | ND | 0.20 | | | | |
| Toluene | ND | 0.20 | | | | |
| Ethylbenzene | ND | 0.20 | | | | |
| p,&m-Xylene | ND | 0.20 | | | | |
| o-Xylene | ND | 0.20 | | | | |
| | | | | | | |

ND = Not Detected (below RL)

RL = Reporting Limit

| Reviewed/Approved By: | Mark Johnson | Date Myl |
|-----------------------|--------------------|----------|
| | Operations Manager | |

LCS/LCSD Recovery and RPD Summary Report

QC Batch #: 151211MS2A1

Matrix: Air

| | | EPA | Method | d TO-1 | 4/TO-1 | 5 | | | | | |
|---------------------------|----------------|-----------------|----------------|---------|----------------|---------|-----|-------------|--------------|-------------|---------------|
| Lab No: | Method Blank | | L | CS | LC | CSD | | | | | |
| Date/Time Analyzed: | 12/11/15 21:48 | | 12/11/1 | 5 20:29 | 12/11/1 | 5 21:07 | | | | | |
| Data File ID: | 11DEC007.D | | 11DE | C005.D | 11DE | C006.D | | | | | |
| Analyst Initials: | DT | | D | T | r | T | | | | (2 | |
| Dilution Factor: | 0.2 | | 1 | .0 | 1 | .0 | | | Limits | | |
| ANALYTE | Result ppbv | Spike Amount | Result ppbv | % Rec | Result ppbv | % Rec | RPD | Low %Rec | High %Rec | Max. RPD | Pass/ Fail |
| 1,1-Dichloroethene | 0.0 | 10.0 | 10.4 | 104 | 10.2 | 102 | 2.5 | 70 | 130 | 30 | Pass |
| Methylene Chloride | 0.0 | 10.0 | 11.1 | 111 | 10.8 | 108 | 3.0 | 70 | 130 | 30 | Pass |
| Trichloroethene | 0.0 | 10.0 | 10.6 | 106 | 10.3 | 103 | 2.8 | 70 | 130 | 30 | Pass |
| Toluene | 0.0 | 10.0 | 10.5 | 105 | 10.2 | 102 | 2.9 | 70 | 130 | 30 | Pass |
| 1,1,2,2-Tetrachloroethane | 0.0 | 10.0 | 11.1 | 111 | 10.7 | 107 | 3.6 | 70 | 130 | 30 | Pass |

RPD = Relative Percent Difference

| Reviewed/Approved By: | 10/ | 1191. | 4 | Date: | 12/14/0 |
|-----------------------|--------------------|-------|---|-------|---------|
| | Mark Johnson | | | | |
| | Operations Manager | • | | | |



CLIENT: Los Angeles Unified School District

ADDRESS: Porter Ranch Community School

DIRECT READING AIR MONITORING LOG

12/11/15

Robert Pitzer

PAGE

DATE:

BY:

| | | INST | ΓRUMENT: | Photo I | onization l | Detector (P | ID) | | |
|---|-----------|----------------------|---------------------|----------------------|---------------------|-------------------|----------------------|------------------|---|
| | CAl | LIBRATIO | ON VALUE | (benze | ne) 5.0 | ppmv | CALIBR | RATION RE | ADING (benzene) 5.0 ppmv |
| | | INST | TRUMENT: | Flame I | onization | Detector (F | TD) | | |
| | CAl | LIBRATIO | ON VALUE | (metha | ne) 50 p | pmv | CALIBR | RATION RE | ADING (methane) 50 ppmv |
| | | INST | ΓRUMENT: | Hydrog | en Sulfide | Jerome J63 | 31X Meter | | |
| | CAI | LIBRATIO | ON VALUE | N/A | Factory | Calibrated | CALIBE | RATION RE | Manufacturer ADING Calibration Only |
| | TIME | VOCs (ppmv) | Hydrogen Sulfide | VOCs (ppmv) | | Dra | eger Tubes | | |
| | TIME | Methane indicator | (ppmv) | benzene indicator | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | Location |
| | 0653 | 0.0 | 0.000 | 0.1 | | | | | Inside Classroom #34 |
| | 0705 | 0.0 | 0.000 | 0.1 | | | | | N.E. Corner of B.B. Crt. |
| | 0709 | 0.0 | 0.000 | 0.1 | | | | | Founders Park Area |
| | 0711 | 0.0 | 0.000 | 0.1 | | | 1 | | Lunch area (Outside) |
| | 0719 | 0.0 | 0.000 | 0.1 | | | | | Corner of Mason Avenue and Sesnon |
| | 0803 | 0.0 | 0.000 | 0.1 | | | | | E.S. Bldg. 2 nd Fl North End |
| | 0814 | 0.0 | 0.000 | 0.1 | | | | | E.S. Bldg 2 nd Fl @ Elevator |
| | 0821 | 0.0 | 0.000 | 0.1 | | | 1 | | Main Office |
| | 0826 | 0.0 | 0.000 | 0.1 | | | | | "Kinder Yard" |
| | 0900 | | | | ND | ND | ND | ND | Lunch Area (Outside) |
| | 0928 | 0.0 | 0.000 | 0.1 | | | 1 | | Middle School Office |
| | 0934 | 0.0 | 0.000 | 0.2 | | | | | M.S. Bldg. 2 nd Fl East Landing |
| | 0938 | 0.0 | 0.000 | 0.1 | | | -1 | | Founders Park Area |
| | 0948 | 0.0 | 0.000 | 0.1 | | | 1 | | Main Office |
| | 1030 | 0.0 | 0.000 | 0.2 | | | - | | M.S. Bldg 2 nd Floor East End |
| | Weather C | Conditions: | Partly Cloudy | | Wind Speed: | 9 mph | Wind Dir | ection: NNW | Temperature: 51 ° F |
| | | | • | | - | • | | | is used for measuring Hydrogen Sulfide. ring Benzene, Toluene, Xylene and |
| • | | | | | onstituents ar | nd are not cher | nical specific. Real | time readings a | re used to guide sample collection. Samples |
| | - | | laboratory for a | | / A = Not An | plicable = | No Reading (no me | asurement take | n at this time) |

Odor of diesel exhaust from Heavy Equipment at 0700; Recalibrated PID at 1030; E.S. = Elementary School; M.S. = Middle School



DIRECT READING AIR MONITORING LOG

| CLIENT: Los Angeles Unified School District ADDRESS: Porter Ranch Community School | | | | | | DATE: | | PAGE 2 | | | |
|---|----------------------|---------------------|----------------------|---------------------------------|-----------------------|------------------------|------------------|---|--|--|--|
| ADDI | RESS: Port | ter Ranch Co | mmunity | School | | BY: | Robert Pi | tzer | | | |
| | INS | TRUMENT: | Photo I | Photo Ionization Detector (PID) | | | | | | | |
| CA | LIBRATI | ON VALUE | (benze | ene) 5.0 | ppmv | CALIBR | RATION RE | ADING (benzene) 5.0 | | | |
| | INS | TRUMENT: | Flame I | onization | Detector (F | TD) | | | | | |
| CA | LIBRATI | ON VALUE | (metha | ne) 50 | ppmv | CALIBR | RATION RE | ADING (methane) 50 | | | |
| | INS | TRUMENT: | Hydrog | | | 31X Meter | | Maria Cartana | | | |
| CA | LIBRATI | ON VALUE | N | | Factory Calibrated | CALIBR | RATION RE | Manufacturer ADING Calibration Only | | | |
| TIME | VOCs (ppmv) | Hydrogen Sulfide | VOCs (ppmv) | | Dra | aeger Tubes | | | | | |
| THVIE | Methane indicator | (ppmv) | benzene indicator | Benzene (ppmv) | Toluene (ppmv) | Ethylbenzene (ppmv) | Xylene (ppmv) | Location | | | |
| 1058 | | | | ND | ND | ND | ND | M.S. Bldg. 2 nd Fl East E | | | |
| 1200 | | 0.000 | 0.0 | | | | | Middle School Office | | | |
| 1210 | | 0.000 | 0.0 | | | | | M.S. Bldg. 2 nd Floor East Sta | | | |
| 1213 | | 0.000 | 0.0 | | | | | M.S. Bldg. 1st Fl East Stairwa | | | |
| 1306 | | | | ND | ND | ND | ND | Main Office | | | |
| 1330 | | | | ND | ND | ND | ND | Kinder Yard | | | |
| 1339 | 0.0 | 0.000 | 0.0 | | | | | M.S. Bldg. 2 nd Floor East Sta | | | |
| 1343 | 0.0 | 0.000 | 0.0 | | | | | M.S. Bldg. 1 st Floor East Sta | | | |
| 1346 | 0.0 | 0.000 | 0.0 | | | | | Founders Park Area | | | |
| 1351 | 0.0 | 0.000 | 0.0 | | | -1 | | N.E. Corner of BB Cour | | | |
| 1355 | 0.0 | 0.000 | 0.0 | | | | | Library | | | |
| 1431 | 0.0 | 0.000 | 0.0 | | | | | Middle School Office | | | |
| 1440 | 0.0 | 0.000 | 0.0 | | | | | Founders Park Area | | | |
| 1443 | 0.0 | 0.000 | 0.0 | | | | | N.E. Corner of BB Cour | | | |
| | | | | | | | | | | | |
| Weather | Conditions: | Partly cloudy | <u> </u> | Wind Speed: | 9 mph | Wind Dire | ection: NNW | Temperature: | | | |

ND = Not Detected; ppmv = parts per million by volume; N/A = Not Applicable -- = No Reading (no measurement taken at this time)

collected daily are submitted to a laboratory for analyses.

Ethylbenzene. VOC readings are an indicator of all volatile constituents and are not chemical specific. Real time readings are used to guide sample collection. Samples