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January 6, 2014

## RECEIVED

By Alameda County Environmental Health at 2:24 pm, Jan 07, 2014

Ms. Karel Detterman Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject: Site Location: 6501 Shattuck Avenue, Oakland, CA

Fuel Leak Case No. RO0003066

Dear Ms. Detterman:

SOMA's "Soil and Groundwater Investigation Report" for the subject site has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. Please do not hesitate to call me at (925) 734-6400, if you have questions or comments.

Sincerely

Mansour Sepehr, Ph.D.,PE Principal Hydrogeologist

cc: Mr. Athan Magganas w/report enclosure



## **Soil and Groundwater Investigation Report**

## 6501 Shattuck Avenue, Oakland, California

January 6, 2014

Project 5032

**Prepared for:** 

Bruder LLC 2550 Appian Way, Suite 201 Pinole, California

## PERJURY STATEMENT

Site Location: 6501 Shattuck Avenue, Oakland, California Soil and Groundwater Investigation Report

"I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge".

Bruder LLC

Athan Magganas

2550 Appian Way, Suite 201

Pinole, California 94564

### CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this document for Bruder LLC, at the request of Bruder LLC manager Mr. Athan Magganas, for the property located at 6501 Shattuck Avenue, Oakland, California. This report was prepared in response to Alameda County Health Care Services correspondence dated November 1, 2013.

Mansour Sepehr, PhD, PE Principal Hydrogeologist



### **TABLE OF CONTENTS**

| CERTIFICATION  | i |
|--|---|
| TABLE OF CONTENTS  |   |
| LIST OF FIGURES  |   |
| LIST OF TABLES   |   |
| LIST OF APPENDICES                                       |   |
| 1. INTRODUCTION  |   |
| 1.1 Site History and Use                                 |   |
| 1.2 Geologic and Hydrogeologic Conditions                |   |
| 2. Scope of work   |   |
| 2.1 Permit Acquisition, Health and Safety Plan Preparate |   |
| Utility Clearance  | 3 |
| 2.2 Advancement of Soil Borings                          |   |
| 2.3 Site Geology   |   |
| 2.4 Groundwater Sample Collection Procedures             | 4 |
| 2.5 Laboratory Analysis                                  | 5 |
| 2.6 Results  |   |
| 2.6.1 Groundwater Analytical Results                     | 5 |
| 2.6.2 Soil Analytical Results                            |   |
| 3. CONCLUSIONS AND RECOMMENDATIONS                       |   |
|  |   |

## **LIST OF FIGURES**

Figure 1: Site vicinity map

Figure 2: Site map showing boring location

### LIST OF TABLES

Table 1: Grab Groundwater Analytical Results

Table 2: Soil Analytical Results

## **LIST OF APPENDICES**

Appendix A: Drilling Permit Appendix B: Boring Log

Appendix C: Laboratory Report and Chain of Custody Forms

### 1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) conducted an additional soil and groundwater assessment and prepared this report at the request of Bruder LLC manager Mr. Athan Magganas, for the property located 6501 Shattuck Avenue, Oakland, California. This report was prepared in response to Alameda County Health Care Services (ACHCS) approval correspondence dated November 1, 2013. This correspondence pertains to SOMA's workplan entitled "Data Gap Investigation Workplan" dated October 24, 2013. The site vicinity map is shown in Figure 1.

### 1.1 Site History and Use

According to the Phase I Environmental Site Assessment Report dated January 26, 2007, prepared for the site by RGA Environmental, the site was redeveloped from a single-family residential property to a service station in 1933. The total period of operation of the service station could not be precisely determined from available historical sources, but based on the City Directory Abstract, the service station appears to have been converted to a repair shop and used car sales facility during the mid-1980s. The facility has operated as East Bay Smog Center and Auto Repair since 2000.

The subject property is located at the northwest quadrant of the intersection of Shattuck Avenue and 65th Street near the common municipal limits of Oakland and Berkeley, approximately 3.25 miles north-northeast of the downtown Oakland commercial district. According to the Alameda County Assessor Office, the parcel is rectangular and covers an area of 0.19 acres (8,333 square feet). Prior to recent underground storage tank (UST) removal and soil excavation activities, the property was improved with an automotive tune-up and repair facility that included the former service station office and canopy structure and a detached two-bay service building. The two site structures were single-story buildings constructed on concrete slabs at grade. Portions of the parcel not occupied by the structures were asphalt or concrete paved. The site vicinity is a mix of service commercial properties along Shattuck Avenue, with older residential development farther to the east and west. Based on assessments of other properties in the area, there are no manufacturing or heavy industrial facilities in the vicinity.

In September 2009, Controlled Environmental Services (CES) obtained permits for removal of six steel USTs located at the subject site. According to the report prepared by CES, dated October 23, 2009, two 1,000-gallon gasoline USTs, three 2,000-gallon gasoline USTs, and one 500-gallon waste oil UST were removed.

### 1.2 Geologic and Hydrogeologic Conditions

The property is situated near the east-center of the San Francisco Bay physiographic sub-region, characterized as a partially submerged structural basin situated between sub-parallel, northwest trending faults. Tectonic subsidence of the basin during the past two million years has resulted in a thick layer of Quaternary alluvium up to 2,000 feet in depth, underlain by interbedded marine sandstone and shale of the Franciscan Assemblage, which was deposited in an off-shore environment during the Late Jurassic/Early Cretaceous Period (125-150 million years before present). Surficial soils are medium- to coarsegrained alluvium deposited by periodic debris flow and sheet erosion processes at the lower slopes of the adjacent Oakland Hills in alluvial fan structures. The soils are characterized as weakly consolidated, slightly weathered, poorly sorted, irregular interbedded clay, silt, sand and gravel, with the coarser component typically situated at the heads of old alluvial fans (Helley, et al, 1979). Deposition of the upper soil zone has occurred during the Late Pleistocene Epoch (11,000 to 50,000 years before present), resulting in a typical soil profile ranging from 20 to 30 feet in depth. The surficial soils have moderate permeability and, based on the nearly flat topography, relatively low transmissivity values. Based on local surface topography, the near surface groundwater aquifer in the area of the site is inferred to be less than 25 feet in depth, and regional groundwater flow is generally westerly, toward San Francisco Bay.

#### 2. SCOPE OF WORK

To further characterize the vertical extent of potential impact of volatile organic compounds (VOCs), poly-aromatic hydrocarbons (PAHs) and CA LUFT-5 metals (cadmium, chromium, zinc, nickel, lead) to the west of the former waste oil underground storage tank (UST), SOMA proposed advancing one soil borehole (B-10) at the site, adjacent to the former waste oil UST location.

Based on ACHCS directive dated November 1, 2013, SOMA advanced one additional soil borehole (B-10) in order to determine the extent of soil and groundwater contamination adjacent to the former waste oil UST.

Details of the tasks listed below are discussed in the following sections of this report.

- Task 1: Permit acquisition, Health and Safety Plan preparation, and subsurface utility clearance
- Task 2: Advancement of one soil boring
- Task 3: Laboratory analysis of soil and groundwater samples
- Task 4: Preparation of site investigation report and recommendations for future actions at the site

## 2.1 Permit Acquisition, Health and Safety Plan Preparation, and Subsurface Utility Clearance

Prior to initiating field activities, SOMA obtained a drilling permit from Alameda County Public Works Agency (ACPWA) (Appendix A). ACHCS was given the required minimum 72-hour notice in advance of drilling on November 21, 2013 and grouting inspection was scheduled on November 26, 2013 with ACPWA/Balance Hydrologics (Gustavo Porras).

During field implementation activities, SOMA followed standard Health and Safety Plan (HASP) procedures. The HASP is a requirement of the Occupational Safety and Health Administration (OSHA), "Hazardous Waste Operation and Emergency Response" guidelines (29 CFR 1910.120) and the California Occupational Safety and Health Administration (Cal/OSHA) "Hazardous Waste Operation and Emergency Response" guidelines (CCR Title 8, section 5192). The HASP is designed to address safety provisions during field activities and protect the field crew from physical and chemical hazards resulting from drilling and sampling. It establishes personnel responsibilities, general safe work practices, field procedures, personal protective equipment standards, decontamination procedures, and emergency action plans. Field staff and contractors reviewed and signed the HASP prior to beginning field operations.

On November 22, 2013, prior to boring advancement activities, SOMA's field crew visited the site and marked proposed well locations using chalk-based white paint. Underground Service Alert (USA) clearance verifying that drilling areas were clear of underground utilities was obtained November 21, 2013 (Ticket 463549). A private utility locator (OHJ Subsurface Utility) surveyed proposed drilling areas on November 22, 2013 to locate any additional subsurface conduits.

### 2.2 Advancement of Soil Borings

On December 20, 2013, a C-57 licensed driller Gregg Drilling & Testing (under SOMA's oversight) advanced one soil borings (B-10) for collection of soil and groundwater samples. The boring was located adjacent to the former waste oil UST location. The boring location is shown in Figure 2. Boring B-10 was advanced to approximately 21 feet below ground surface (bgs).

Direct Push Technology (DPT) was utilized for the boring. DPT is an efficient method of collecting continuous soil cores while preventing cross-contamination. It involves hydraulically hammering a set of steel rods into the subsurface with the lead section consisting of a polyethylene-lined sampler. After drilling rods are pushed to the desired depth, the soil-filled liner is retrieved. SOMA's field geologist logged continuous soil cores from advanced borings, characterizing the content of each soil-filled tube using the Unified Soil Classification System (USCS) Visual-Manual method. Encountered subsurface lithologies were

recorded on geologic borehole logs. Contents of each sediment-filled tube were screened with a photoionization detector (PID) at each screened depth and results noted on respective boring logs (Appendix B).

Soil samples were collected at one foot intervals beginning at 7 feet bgs (previous excavation extended to 7 feet under the tank). A minimum of three soil samples were analyzed between 7 and 15 feet bgs (7 feet, 9 feet 10 feet, & 15 feet). A sample from the bottom of the boring (21 feet) was also analyzed. The depths for sample analysis were selected on the basis of locations of elevated PID (greater than 25 ppmv) or where visual or olfactory observations indicate the presence of significant soil contamination. The final depth of boring was determined based on the presence of groundwater.

At each interval of depth-discrete soil sampling, the DPT drilling rig obtained a 4-foot soil sample core. For soil sample collection, SOMA's field geologist cut sections of the soil-filled tubes into 6-inch-long sections and capped each end with a Teflon liner and polyethylene end cap. Samples were labeled with unique identifiers and immediately placed in a chilled ice chest pending transportation to Curtis & Tompkins, Ltd. (C&T), a California state-certified environmental laboratory.

As stated above, laboratory analysis was performed on samples collected from 7 ft., 9 ft., 10 ft., 15 ft., and 21 ft (bottom of the boring). Elevated PID (<25 ppm) was observed only at 7ft. (51.9 ppm). Field notes summarizing observed PID readings are attached in Appendix B.

#### 2.3 Site Geology

Similar to the previous investigations, observed subsurface soils consisted of sandy lean clay, clay and clayey sand. Encountered subsurface lithologies were recorded on geologic borehole logs (Appendix B). The contents of each sediment-filled tube were screened using a PID at each screened depth and results were noted on respective boring logs. PID responds to all molecules with ionization potential below 10.6eV, including aromatics and molecules with carbon double bonds. Detected PID readings, summarized on boring logs (Appendix B), ranged between 0.2 ppm and 51.9 ppm.

#### 2.4 Groundwater Sample Collection Procedures

To collect grab groundwater samples, a new bailer was utilized to evacuate a sufficient amount of groundwater. Samples were decanted into 40-mL VOA vials, pre-preserved with hydrochloric acid, 500 mL unpreserved bottles, and 1-L ambers, then immediately stored in a cooler with ice, pending delivery to C&T under appropriate chain-of-custody protocol for analysis.

The boring was decommissioned on December 20, 2013, according to Cal/EPA guidelines with a neat-cement grout mixture.

### 2.5 Laboratory Analysis

Soil and groundwater samples were submitted to C&T for analysis of the following:

- Full List VOCs using method 8260
- CA LUFT-5 Metals
- PAHs using method EPA 8270 SIM

#### 2.6 Results

### 2.6.1 Groundwater Analytical Results

TPH-g, BTEX, MtBE, and all other VOCs were below laboratory-reporting limits in the groundwater sample obtained from boring B-10. All PAHs were also below laboratory-reporting limits in this groundwater sample.

All CA LUFT-5 metals were detected at concentrations below the ESLs except Lead in the groundwater sample. Lead was detected at 6.1 µg/L (ESL-2.5 µg/L).

Current and historical groundwater analytical results with respective ESLs are summarized in Table 1. The laboratory analytical report is contained in Appendix C.

#### 2.6.2 Soil Analytical Results

During this investigation, all analytes were detected below laboratory-reporting limits or below ESLs in analyzed soil samples. TPH-g was detected at low levels of 7.1 mg/kg and 3.5 mg/kg in soil samples obtained from B-10 at 7 ft and 9 ft., respectively. Laboratory noted that these samples exhibited chromatographic pattern that did not resemble a standard gasoline pattern. TPH-g and all other VOCs were below laboratory reporting limit at other sampling depths. Similarly, PAHs were either below laboratory-reporting limits or detected at low levels below ESLs at all sampling depths.

All CA LUFT-5 metals were detected at concentrations below the ESLs in analyzed soil samples. Cadmium was detected in concentrations ranging from 0.48 mg/kg at 21 ft. to 0.95 mg/kg at 10 ft. Chromium was detected in concentrations ranging from 30 mg/kg at 21 ft. to 44 mg/kg at 15 ft. Lead was detected in concentrations ranging from 5.6 mg/kg at 9 ft. to 10 mg/kg at 10 ft. Nickel was detected in concentrations ranging from 36 mg/kg at 7 and 8 ft. to 68

mg/kg at 15 ft. and Zinc was detected in concentrations ranging from 47 mg/kg at 21 ft. to 54 mg/kg at 7 ft.

Table 2 summarizes current and historical soil analytical results; the current analytical report is contained in Appendix C.

### 3. CONCLUSIONS AND RECOMMENDATIONS

- SOMA advanced one soil boring B-10, and collected soil and groundwater samples to further characterize the vertical extent of potential impact of volatile organic compounds (VOCs), poly-aromatic hydrocarbons (PAHs) and CA LUFT-5 metals (cadmium, chromium, zinc, nickel, lead) adjacent to the former waste oil underground storage tank (UST).
- TPH-g, BTEX, all other VOCs, and PAHs were below laboratory-reporting limits in the groundwater sample obtained from B-10. Cadmium, chromium, zinc, and nickel were either below laboratory-reporting limits or below their respective ESLs. Lead was detected at 6.1 μg/L which is above the ESL of 2.5 μg/L.
- TPH-g, BTEX, all other VOCs, PAHs, and CA LUFT-5 metals were either below laboratory-reporting limits or below their respective ESLs in soil samples collected from B-10.
- Based on results of this investigation, SOMA proposes adopting 'No Further Action' status for the site.

## **FIGURES**





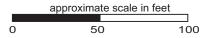
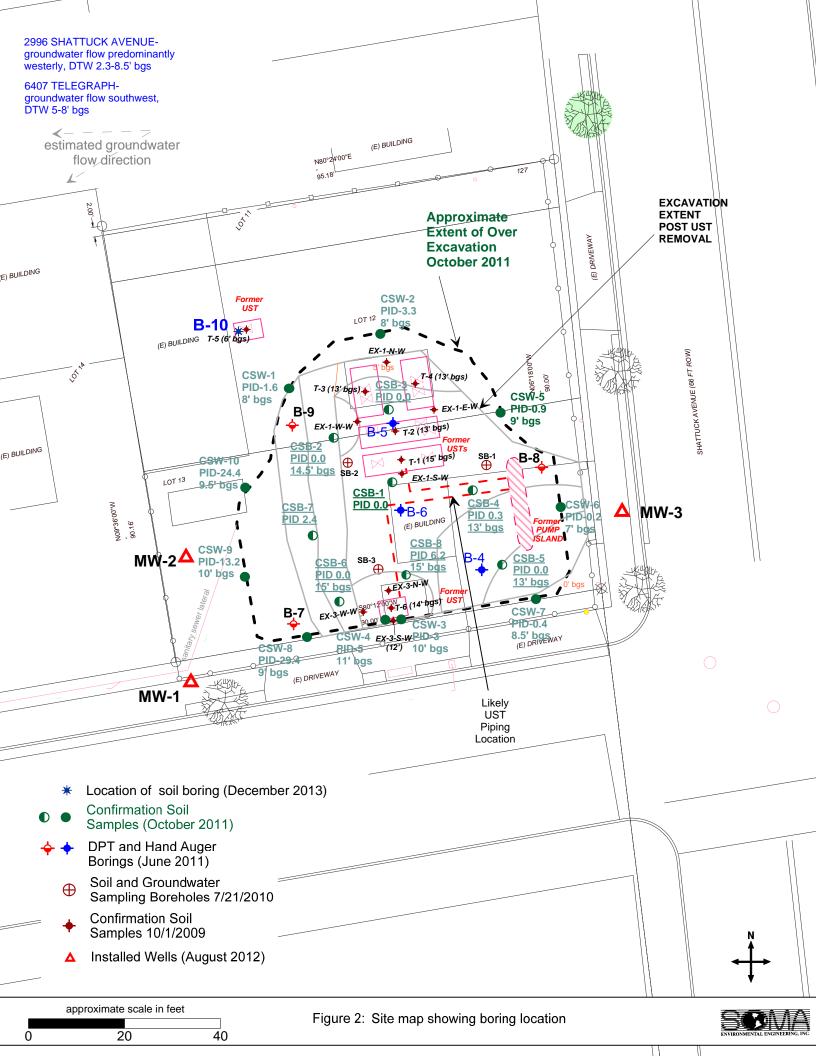


Figure 1: Site vicinity map.



## **TABLES**

Table 1
Grab Groundwater Analytical Results
6501 Shattuck Ave, Oakland, CA

| Sample<br>ID | Date                             | TPH-g<br>(μg/L) | TPH-d<br>(μg/L) | TPH-mo<br>(μg/L) | Benzene<br>(μg/L) | Toluene<br>(μg/L) | Ethyl-<br>Benzene<br>(ua/L) | Total<br>Xylenes<br>(ug/L) | MtBE<br>8260B<br>(µg/L) |
|--------------|----------------------------------|-----------------|-----------------|------------------|-------------------|-------------------|-----------------------------|----------------------------|-------------------------|
| SB-1         | 7/21/2010                        | 1,500           | 930             | <300             | 5.1               | 1.8               | 32                          | 25                         | 1.9                     |
| SB-2         | 7/21/2010                        | 1,700           | 5,300           | 1,400            | 59                | 4.8               | 18                          | 13.7                       | 0.66                    |
| SB-3         | 7/21/2010                        | 4,000           | 11,000          | 800              | 30                | 4.1               | 15                          | 10.9                       | <0.5                    |
| B-4          | 6/10/2011                        | <50             | <50             | <300             | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
| B-5          | 6/10/2011                        | <50             | <50             | <300             | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
| B-6          | 6/16/2011                        | <50             | <50             | <300             | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
| B-7          | 6/10/2011                        | 160 Y           | 61 Y            | <300             | 1.1               | 0.9               | 1.2                         | 0.9                        | < 0.5                   |
| B-8          | 6/10/2011                        | <50             | <63             | <380             | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
| B-9          | 6/10/2011                        | <50             | <50             | <300             | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
| B-10         | 12/20/2013                       | <50             | NA              | NA               | <0.5              | < 0.5             | <0.5                        | < 0.5                      | <0.5                    |
|              | Drinking Water<br>Residential)   | 100             | 100             | 100              | 1                 | 40                | 30                          | 20                         | 5                       |
|              | on-Drinking Water<br>Commercial) | 500             | 640             | 640              | 46                | 130               | 43                          | 100                        | 1,800                   |

| Sample<br>ID | Date                             | Cadmium<br>(μg/L) | Chromium (µg/L) | Lead<br>(μg/L) | Nickel<br>(μq/L) | Zinc<br>(μα/L) |
|--------------|----------------------------------|-------------------|-----------------|----------------|------------------|----------------|
| SB-1         | 7/21/2010                        | <5.0              | <5.0            | <5.0           | < 5.0            | <20            |
| SB-2         | 7/21/2010                        | <5.0              | <5.0            | <5.0           | 12               | 41             |
| SB-3         | 7/21/2010                        | <5.0              | < 5.0           | <5.0           | 19               | 350            |
| B-10         | 12/20/2013                       | <5.0              | <5.0            | 6.1            | 5.9              | 21             |
|              | Drinking Water<br>Residential)   | 0.25              | 50              | 2.5            | 8.2              | 81             |
|              | on-Drinking Water<br>Commercial) | 0.25              | 180             | 2.5            | 8.2              | 81             |

#### Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final 2013

- < : below Laboratory Detection Limits
- Y: Sample exhibits chromatographic pattern which does not resemble standard

Table 2 Soil Analytical Results 6501 Shattuck Ave, Oakland, CA

| Sample ID    | Soil Sample<br>Depth (feet<br>bgs) | Depth to Water<br>(feet bgs) | Date       | TPH-g<br>(mg/kg)  | TPH-d<br>(mg/kg) | TPH-mo<br>(mg/kg) | Benzene<br>(mg/kg) | Toluene<br>(mg/kg) | Ethyl-<br>Benzene<br>(mg/kg) | Total<br>Xylenes<br>(mg/kg) | MtBE<br>8260B<br>(mg/kg) |
|--------------|------------------------------------|------------------------------|------------|-------------------|------------------|-------------------|--------------------|--------------------|------------------------------|-----------------------------|--------------------------|
| SB-1@2.5ft   | 9                                  | 10                           | 7/21/2010  | 23Y               | 20               | <5.0              | < 0.25             | < 0.25             | < 0.25                       | <0.25                       | < 0.25                   |
| SB-2@3ft     | 9                                  | 10                           | 7/21/2010  | 510Y              | 50               | <5.0              | <0.5               | <0.5               | 0.65                         | <0.5                        | <0.5                     |
| SB-3@1.5ft   | 8.5                                | 8.5                          | 7/21/2010  | 3.2Y              | 24               | 48                | <0.0048            | <0.0048            | <0.0048                      | <0.0048                     | < 0.0048                 |
| B-4          | 9                                  | 13.22                        | 6/10/2011  | <1.0              | <1.0             | <5.0              | < 0.005            | < 0.005            | < 0.005                      | < 0.005                     | < 0.005                  |
| B-5          | 8                                  | NA                           | 6/10/2011  | 18 Y              | 59 Y             | <5.0              | < 0.25             | <0.25              | <0.25                        | < 0.25                      | < 0.25                   |
| B-6          | 7                                  | NA                           | 6/10/2011  | <1.0              | <1.0             | <5.0              | <0.0048            | <0.0048            | <0.0048                      | <0.0048                     | <0.0048                  |
| B-7          | 10                                 | 12.45                        | 6/10/2011  | 180               | 35 Y             | <5.0              | <0.25              | <0.25              | <0.25                        | < 0.25                      | <0.25                    |
| B-7          | 12                                 | 12.45                        | 6/10/2011  | <0.98             | NA               | NA                | NA                 | NA                 | NA                           | NA                          | NA                       |
| B-8          | 4.5                                | NA                           | 6/10/2011  | <1.1              | 3.2 Y            | 23                | <0.0049            | <0.0049            | <0.0049                      | <0.0049                     | <0.0049                  |
| B-9          | 8                                  | 11.5                         | 6/10/2011  | 140               | 58 Y             | 6.1               | <0.25              | <0.25              | <0.25                        | <0.25                       | <0.25                    |
| B-9          | 10                                 | 11.5                         | 6/10/2011  | <1.0              | NA               | NA                | NA                 | NA                 | NA                           | NA                          | NA                       |
| CSW-1        | 10                                 | NA                           | 10/13/2011 | 1.7 <sup>Y</sup>  | 4.3 <sup>Y</sup> | <5.0              | <0.005             | <0.005             | <0.005                       | < 0.005                     | <0.005                   |
| CSW-2@8ft    | 8                                  | NA                           | 10/17/2011 | < 0.017           | <0.759           | 8.9               | <0.0015            | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-3@10'    | 10                                 | NA                           | 10/14/2011 | 38                | 7.8              | <1.65             | <0.15              | <0.098             | 0.18                         | <0.19                       | <0.26                    |
| CSW-4@11'    | 11                                 | NA                           | 10/14/2011 | <0.017            | <0.759           | <1.65             | <0.0015            | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-5@9ft    | 9                                  | NA                           | 10/17/2011 | <0.017            | <0.759           | <1.65             | <0.0015            | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-6@7ft    | 7                                  | NA                           | 10/17/2011 | <0.017            | <0.759           | <1.65             | <0.0015            | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-7@8.5ft  | 8.5                                | NA                           | 10/17/2011 | <0.017            | <0.759           | <1.65             | <0.0015            | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-8@9ft    | 9                                  | NA                           | 10/24/2011 | 0.56 <sup>X</sup> | 2.9 <sup>X</sup> | 10                | <0.0038            | <0.0025            | <0.0022                      | <0.0046                     | < 0.0065                 |
| CSW-9@10ft   | 10                                 | NA                           | 10/24/2011 | < 0.017           | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| CSW-10@9.5ft | 9.5                                | NA                           | 10/24/2011 | 3.4 <sup>X</sup>  | 8.2 <sup>X</sup> | 7.5               | < 0.0075           | < 0.0049           | < 0.0043                     | < 0.0093                    | < 0.013                  |
| CSB-1        | 14                                 | NA                           | 10/13/2011 | <1.0              | <1.0             | <5.0              | < 0.0049           | < 0.0049           | < 0.0049                     | < 0.0049                    | < 0.0049                 |
| CSB-2        | 14.5                               | NA                           | 10/13/2011 | <1.0              | <1.0             | <5.0              | < 0.0049           | < 0.0049           | < 0.0049                     | < 0.0049                    | < 0.0049                 |
| CSB-3        | 13                                 | NA                           | 10/13/2011 | <1.1              | <1.0             | <5.0              | < 0.005            | < 0.005            | < 0.005                      | < 0.005                     | < 0.005                  |
| CSB-4        | 13                                 | NA                           | 10/17/2011 | < 0.0017          | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| CSB-5        | 13                                 | NA                           | 10/17/2011 | < 0.0017          | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| CSB-6        | 15                                 | NA                           | 10/24/2011 | < 0.0017          | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | <0.0019                     | < 0.0026                 |
| CSB-7        | 14.5                               | NA                           | 10/24/2011 | 5.4 <sup>X</sup>  | 24 <sup>X</sup>  | 25                | < 0.0075           | < 0.0049           | < 0.0043                     | < 0.0093                    | < 0.013                  |
| CSB-8        | 15                                 | NA                           | 10/24/2011 | < 0.0017          | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| Fill Black-1 | NA                                 | NA                           | 10/14/2011 | < 0.0017          | < 0.759          | 23                | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| Fill Black-2 | NA                                 | NA                           | 10/14/2011 | < 0.0017          | <0.759           | 7.6               | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| Fill Brown-1 | NA                                 | NA                           | 10/14/2011 | < 0.017           | <0.759           | 42                | < 0.0015           | <0.00098           | <0.00086                     | < 0.0019                    | < 0.0026                 |
| Fill Brown-2 | NA                                 | NA                           | 10/14/2011 | < 0.017           | <0.759           | 28                | < 0.0015           | <0.00098           | <0.00086                     | <0.0019                     | <0.0026                  |
| Compfill-3   | NA                                 | NA                           | 10/28/2011 | < 0.017           | <0.759           | <1.65             | < 0.0015           | <0.00098           | <0.00086                     | <0.0019                     | NA                       |
| B-10         | 7                                  | 17                           | 12/20/2013 | 7.1 Y             | NA               | NA                | <0.0049            | <0.0049            | <0.0049                      | <0.0049                     | <0.0049                  |
| B-10         | 9                                  | 17                           | 12/20/2013 | 3.5 Y             | NA               | NA                | <0.0048            | <0.0048            | <0.0048                      | <0.0048                     | <0.0048                  |
| B-10         | 10                                 | 17                           | 12/20/2013 | <1.0              | NA               | NA                | <0.0049            | <0.0049            | <0.0049                      | <0.0049                     | <0.0049                  |
| B-10         | 15                                 | 17                           | 12/20/2013 | <1.0              | NA               | NA                | <0.0047            | <0.0047            | <0.0047                      | <0.0047                     | <0.0047                  |
| B-10         | 21                                 | 17                           | 12/20/2013 | <0.98             | NA               | NA                | <0.0048            | <0.0048            | <0.0048                      | <0.0048                     | <0.0048                  |
|              | ESL Drinking Wa                    | ater (Residential)           |            | 100               | 100              | 100               | 0.044              | 2.9                | 3.3                          | 2.3                         | 0.023                    |
| ES           | SL Non-Drinking \                  | Water (Commercia             | ıl)        | 500               | 110              | 500               | 1.2                | 9.3                | 4.7                          | 11                          | 8.4                      |

Table 2
Soil Analytical Results
6501 Shattuck Ave, Oakland, CA

| Sample ID  | Soil Sample<br>Depth (feet<br>bgs) | Depth to Water (feet bgs) | Date       | Phenanthrene<br>(mg/kg) | Pyrene (mg/kg) | Chrysene (mg/kg) | Cadmium<br>(mg/kg) | Chromium<br>(mg/kg) | Lead<br>(mg/kg) | Nickel<br>(mg/kg) | Zinc<br>(mg/kg) |
|------------|------------------------------------|---------------------------|------------|-------------------------|----------------|------------------|--------------------|---------------------|-----------------|-------------------|-----------------|
| SB-1@2.5ft | 9                                  | 10                        | 7/21/2010  | NA                      | NA             | NA               | NA                 | NA                  | 7.9             | NA                | NA              |
| SB-2@3ft   | 9                                  | 10                        | 7/21/2010  | NA                      | NA             | NA               | NA                 | NA                  | 5.7             | NA                | NA              |
| SB-3@1.5ft | 8.5                                | 8.5                       | 7/21/2010  | NA                      | NA             | NA               | NA                 | NA                  | 58              | NA                | NA              |
| B-4        | 9                                  | 13.22                     | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | NA              | NA                | NA              |
| B-5        | 8                                  | NA                        | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | < 0.25          | NA                | NA              |
| B-6        | 7                                  | NA                        | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | <0.0048         | NA                | NA              |
| B-7        | 10                                 | 12.45                     | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | < 0.25          | NA                | NA              |
| B-7        | 12                                 | 12.45                     | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | NA              | NA                | NA              |
| B-8        | 4.5                                | NA                        | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | < 0.0049        | NA                | NA              |
| B-9        | 8                                  | 11.5                      | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | < 0.25          | NA                | NA              |
| B-9        | 10                                 | 11.5                      | 6/10/2011  | NA                      | NA             | NA               | NA                 | NA                  | NA              | NA                | NA              |
| B-10       | 7                                  | 17                        | 12/20/2013 | 0.061                   | 0.093          | 0.076            | 0.55               | 31                  | 7.5             | 36                | 54              |
| B-10       | 9                                  | 17                        | 12/20/2013 | < 0.0051                | 0.0065         | < 0.0051         | 0.54               | 33                  | 5.6             | 36                | 48              |
| B-10       | 10                                 | 17                        | 12/20/2013 | < 0.005                 | 0.0083         | < 0.005          | 0.95               | 41                  | 10              | 62                | 52              |
| B-10       | 15                                 | 17                        | 12/20/2013 | < 0.005                 | < 0.005        | < 0.005          | 0.67               | 44                  | 9               | 68                | 52              |
| B-10       | 21                                 | 17                        | 12/20/2013 | < 0.0049                | < 0.0049       | < 0.0049         | 0.48               | 30                  | 7.9             | 37                | 47              |
|            | ESL Drinking W                     | ater (Residential)        |            | 11                      | 85             | 3.8              | 12                 | 1,000               | 80              | 150               | 600             |
| E          | SL Non-Drinking                    | Water (Commercia          | al)        | 11                      | 85             | 13               | 12                 | 2,500               | 320             | 150               | 600             |

#### Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final 2013

Note: Depth to groundwater is tentative, since some locations had slower water recovery rates, and does not represent the actual stabilized groundwater elevation across the site NA: Not Analyzed

<sup>&</sup>lt; : below Laboratory Detection Limits

Y: Sample exhibits chromatographic pattern which does not resemble standard

X: Does not match pattern of reference Gasoline standard. Reported value is the result of contribution from hydrocarbons heavier than requested fule in range of C5-C12 quantified as gasoline

X: Not typical of Diesel standard pattern (possibly fuel lighter than diesel)

## **APPENDIX A**

**DRILLING PERMIT** 

### Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street Hayward, CA 94544-1395 Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 11/26/2013 By jamesy

Permit Numbers: W2013-0964

Permits Valid from 12/19/2013 to 12/19/2013

Application Id:

1385404262251

City of Project Site: Oakland

Site Location:

6501 Shattuck Avenue 12/19/2013

Completion Date: 12/19/2013

Project Start Date: Assigned Inspector:

Contact Balance Hydrologics, Inc at (510) 473-5663 or acwells@balancehydro.com

Applicant:

SOMA Environmental Engineering - Mansour

Phone: 925-734-6400

Sepehr

6620 Owens Drive, Suite A, Pleasanton, CA 94588

**Property Owner:** 

Athan Magganas 2550 Appian Way, Pinole, CA 94564 Phone: 510-520-1482

Client: Contact: same as Property Owner \*

Phone: 925-734-6400

Lizzie Hightower

Cell: 925-330-5235

Total Due:

**Total Amount Paid:** 

\$265.00

Receipt Number: WR2013-0452 Payer Name: Mansour Sepehr Paid By: VISA

\$265.00 PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Contamination Study - 1 Boreholes

Driller: Gregg Drilling & Testing - Lic #: 485165 - Method: DP

Work Total: \$265.00

**Specifications** 

Permit Issued Dt Expire Dt

Hole Diam Max Depth

Number

Boreholes

3.00 in.

W2013-0964

Specific Work Permit Conditions

11/26/2013 03/19/2014

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.

15.00 ft

- 2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
- 3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

## Alameda County Public Works Agency - Water Resources Well Permit

- 5. Applicant shall contact assigned inspector listed on the top of the permit at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
- 6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

#### 7. NOTE:

Under California laws, the owner/operator are responsible for reporting the contamination to the governmental regulatory agencies under Section 25295(a). The owner/operator is liable for civil penalties under Section 25299(a)(4) and criminal penalties under Section 25299(d) for failure to report a leak. The owner/operator is liable for civil penalties under Section 25299(b)(4) for knowing failure to ensure compliance with the law by the operator. These penalty provisions do not apply to a potential buyer.

8. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. Boreholes shall not be converted to monitoring wells, without a permit application process.

## **APPENDIX B**

**BORING LOGS** 

PROJECT: 5032

DATE DRILLED: December 20, 2013

SITE LOCATION: 6501 Shattuck Ave., Oakland

CASING ELEVATION: NA

DRILLER: Woodward Drilling

First Encountered GW: 20.00 feet

DRILLING METHOD: DP

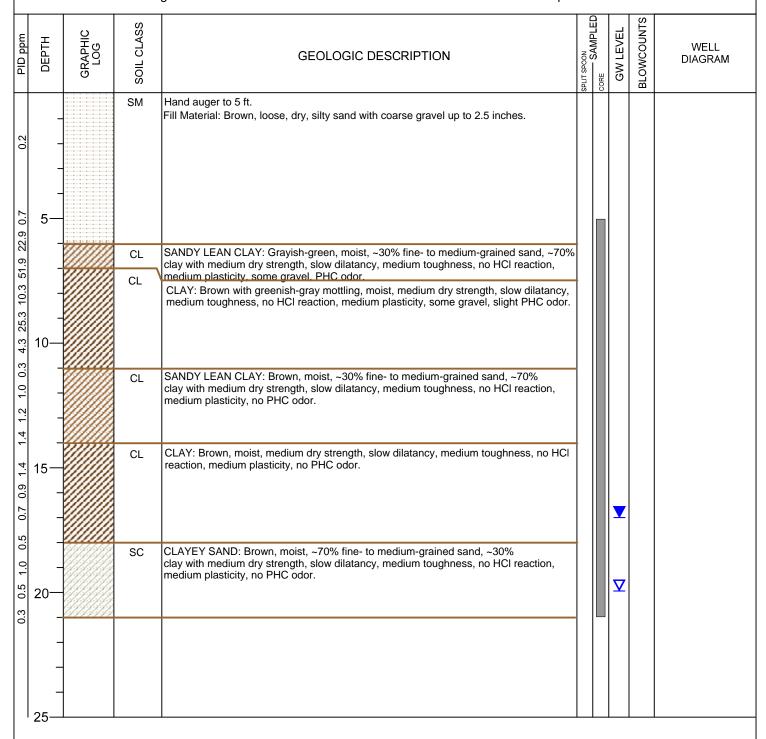
Stablized GW: 17 feet T.O.C. TO SCREEN: NA

**BORING DIAMETER: 3-inches** 

SCREEN LENGTH: NA

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr



COMMENTS: TD @ 21 feet

## **APPENDIX C**

# LABORATORY REPORT AND CHAIN OF CUSTODY FORM



## Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

## Laboratory Job Number 251882 ANALYTICAL REPORT

SOMA Environmental Engineering Inc. Project : 5032

6620 Owens Dr. Location: 6501 Shattuck Ave., Oakland

Pleasanton, CA 94588 Level : II

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| B-10@8FT         | 251882-001    |
| B-10@9FT         | 251882-002    |
| B-10@10FT        | 251882-003    |
| B-10@11FT        | 251882-004    |
| B-10@12FT        | 251882-005    |
| B-10@13FT        | 251882-006    |
| B-10@14FT        | 251882-007    |
| B-10@15FT        | 251882-008    |
| B-10@16FT        | 251882-009    |
| B-10@17FT        | 251882-010    |
| B-10@18FT        | 251882-011    |
| B-10@19FT        | 251882-012    |
| B-10@21FT        | 251882-013    |
| B-10@7FT         | 251882-014    |
| B-10             | 251882-015    |

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signature. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature:

Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

NELAP # 01107CA

Date: <u>01/06/2014</u>



#### CASE NARRATIVE

Laboratory number: 251882

Client: SOMA Environmental Engineering Inc.

Project: 5032

Location: 6501 Shattuck Ave., Oakland

Request Date: 12/20/13 Samples Received: 12/20/13

This data package contains sample and QC results for five soil samples and one water sample, requested for the above referenced project on 12/20/13. The samples were received cold and intact.

#### TPH-Purgeables and/or BTXE by GC (EPA 8015B):

High surrogate recovery was observed for bromofluorobenzene (FID) in B-10@7FT (lab # 251882-014). No other analytical problems were encountered.

#### Volatile Organics by GC/MS (EPA 8260B) Water:

No analytical problems were encountered.

#### Volatile Organics by GC/MS (EPA 8260B) Soil:

No analytical problems were encountered.

#### Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Water:

No analytical problems were encountered.

#### Semivolatile Organics by GC/MS SIM (EPA 8270C-SIM) Soil:

High RPD was observed for pyrene in the MS/MSD for batch 206525; the parent sample was not a project sample. No other analytical problems were encountered.

#### Metals (EPA 6010B) Soil:

High RPD was observed for nickel in the MS/MSD for batch 206609; the parent sample was not a project sample, and the RPD was acceptable in the BS/BSD. Zinc was detected above the RL in the method blank for batch 206609; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

#### Metals (EPA 6010B) Filtrate:

No analytical problems were encountered.

## **CHAIN OF CUSTODY**

| Curtis | & | Tomi | okins. | Ltd. |
|--------|---|------|--------|------|
|        | _ |      | ·····  |      |

Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510)486-0900 Phone (510)486-0532 Fax

C&T LOGIN# 251862

Sampler: Lizzie Hightower

Project No: 5032

Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company:

Report To:

SOMA Environmental

**Turnaround Time: Standard** 

Telephone:

925-734-6400

Fax:

925-734-6401

|            |              |                       | _    | Иa    | tri:  | X_ |                    | P   | <u>res</u>                     | erv              | ative |
|------------|--------------|-----------------------|------|-------|-------|----|--------------------|-----|--------------------------------|------------------|-------|
| Lab<br>No. | Sample ID.   | Sampling Date<br>Time | Soil | Water | Waste |    | # of<br>Containers | HCL | H <sub>2</sub> SO <sub>4</sub> | HNO <sub>3</sub> | ICE   |
| 1          | 8-D@8ft      | 12/20/13 10:09        | X    |       |       |    | b' Sleeve          |     |                                |                  | X     |
| Q          | 3-10@ 9ft    | 10:04                 | X    |       |       |    | 1                  |     |                                |                  | ×     |
| 3          | B-10 @ 10 ft | 09159                 | X    |       |       |    |                    |     |                                |                  | X     |
| 4          | B-10@ 11ft   | 10:25                 | X    |       |       |    |                    |     | -                              |                  | Х     |
| 5          | B-10@ 12f+   | 10:17                 | X    |       |       |    |                    |     |                                |                  | Х     |
| 6          | B-10@ 13ft   | 10:49                 | X    |       |       |    |                    |     |                                |                  | X     |
| 7          | B-10@ 14ft   | 10:42                 | X    |       |       |    |                    |     |                                |                  | X     |
| 8          | B-10@ 15 Ff  | 11:04                 | X    |       |       |    |                    |     |                                |                  | Х     |
| 9          | 8-10 C 16ft  | 11:00                 | χ    |       |       |    |                    |     |                                |                  | X     |
| 10         | B-10@ 17ft   | 11:23                 | X    | ,     |       |    | J                  |     |                                |                  | 人     |
| Notos      |              |                       |      |       |       |    |                    |     |                                |                  |       |

RECEIVED BY:

VOCs (Full List) 8260GX

CA LUFT-5 Metals

X

X

# Hold

Notes: EDF OUTPUT REQUIRED

Lab filter voter for CA LUFT-5 wetals RELINQUISHED BY:

12 20/13

14:53 DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

DATE/TIME

## Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878 2323 Fifth Street Berkeley, CA 94710 (510)486-0900 Phone (510)486-0532 Fax

C&T LOGIN # 2 51862

Sampler: Lizzie Hightower

Project No: 5032 Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland Company: SOMA Environmental

Turnaround Time: Standard Telephone: 925-734-6400

Fax: 925-734-6401

|            |             | ·                |       | Ш    | Ma    | trix  |                       | F   | res                            | erv  | ativ   | е         |
|------------|-------------|------------------|-------|------|-------|-------|-----------------------|-----|--------------------------------|------|--------|-----------|
| Lab<br>No. | Sample ID.  | Sampling<br>Time | Date  | Soil | Water | Waste | # of<br>Containers    | HCL | H <sub>2</sub> SO <sub>4</sub> | HNO3 | CE     |           |
| 11         | B-10@18ft   | 12/20/13         | 11:29 | X    |       |       | 6" Sleeve             | _   |                                |      | X      |           |
| 42         | B10@ 19ft   | 1                | 11.16 | X    |       |       |                       |     |                                |      | X      |           |
| 13         | B-10@ 21 ft | <b>\</b>         | 11:40 | X    |       |       | 1                     |     |                                |      | X      |           |
| 14         | 3-10@ 7 Ft  | J                | 09:40 | X    |       |       | V                     |     |                                |      | X      | -         |
| 15         | B-10        | 12/20/13         | 12:00 |      | X     |       | 3 VO 45<br>2-1 LAmber | X   |                                |      | X      |           |
|            | V           | <u> </u>         | 1     |      | X     | T     | 500 mc poly           |     |                                |      | X      |           |
|            |             | _                |       |      |       |       |                       |     |                                |      |        |           |
|            |             |                  |       |      |       |       |                       |     |                                |      |        | $\exists$ |
|            |             |                  |       |      |       |       |                       |     |                                |      | 7      | $\exists$ |
|            |             |                  |       |      |       |       |                       |     | 7                              |      | $\neg$ | ᅦ         |

Notes: EDF OUTPUT REQUIRED

Lab filter water for

CA LUFT-5 metals

RELINQUISHED BY:

12/20/13 14:53 DATE/TIME

DATE/TIME

DATE/TIME

RECEIVED BY:

VOCs (Full List) 8260GX

CA LUFT-5 Metals

8270-SIM

X

Mary/

Hold

DATE/TIME 453

DATE/TIME

DATE/TIME

## COOLER RECEIPT CHECKLIST



| Login # 251842 Date Received 12/20/13 Number of coolers 1 Client COMA Project 8 (05001 C. NATH NO. A. V. C. NATH NO. A. |
|---|
| TOJECT & USOLING AVE., OAKLAND  |
| Date Opened 12/20/13 By (print) 12 (sign) TMa Rankan (5032)   |
| Date Logged in \( \frac{1}{2} \) By (print) \( \mathred{M} \) \( (\sign) \)   |
| 1. Did cooler come with a shipping slip (airbill, etc)YES NO  |
| 2A. Were custody seals present? TYES (circle) on cooler on samples  How many  Name  Date  |
| 2B. Were custody sears intact upon arrival?   |
| 4. Were custody papers dry and intact when received?  Were custody papers dry and intact when received?  YES NO   |
| 4. Were custody papers filled out properly (ink, signed, etc)?  |
|   |
| ☐ Bubble Wrap ☐ Cloth material ☐ Cardboard ☐ Cardboard ☐ Styrofoam ☐ Paper towels   |
| 7. Temperature documentation: * Notify PM if temperature exceeds 6°C  |
| Type of ice used: Wet Blue/Gel None Temp(°C)  |
| Samples Received on ice & cold without a temperature blank; temp. taken with IR gun   |
| Samples received on ice directly from the field G. 1:   |
| Samples received on ice directly from the field. Cooling process had begun  |
| 8. Were Method 5035 sampling containers present?YES NO  9. Did all bettles arrives a land of the same and the same and the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same as a land of the same arrives are same arrives and the same arrives are same arrives         |
| 2. Did all bottles arrive unbroken/unopened?  |
| 10. Are there any missing / extra samples?  |
| 11. Ale samples in the appropriate containers for indicated tests?  |
| 12. Are sample labels present, in good condition and complete?  |
| 13. Do the sample labels agree with custody naners?   |
| 14. Was sufficient amount of sample sent for tests requested?   |
| 13. Are the samples appropriately preserved?  |
| 10. Did you check preservatives for all bottles for each sample?  |
| 7. Did you document voir preservative check?  |
| 18. Did you change the hold time in LIMS for impreserved VOAs2  |
| Did you change the noid time in LIMS for preserved terracores?  |
| 2011 MO OGOODES - OHILL ADSENT IN VITA COMPLECT   |
| 21. Was the client contacted concerning this sample delivery?   |
| If YES, Who was called? By Date:  |
| COMMENTS  |
|   |
|   |
|   |
|   |
|   |



Total Volatile Hydrocarbons Lab #: 251882 Location: 6501 Shattuck Ave., Oakland Client: SOMA Environmental Engineering Inc. EPA 5030B Prep: EPA 8015B Project#: 5032 Analysis: Soil Batch#: 206550 Matrix: Sampled: Units: mg/Kg 12/20/13 Basis: as received Received: 12/20/13 Diln Fac: 1.000 Analyzed: 12/26/13

Field ID: B-10@9FT Lab ID: 251882-002

Type: SAMPLE

| Analyte         | Result | RL  |  |
|-----------------|--------|-----|--|
| Gasoline C7-C12 | 3.5 Y  | 1.1 |  |

| Limits |
|--------|
| 67-13  |

Field ID: B-10@10FT Lab ID: 251882-003

Type: SAMPLE

| Analyte         | Result | RL  |  |
|-----------------|--------|-----|--|
| Gasoline C7-C12 | ND     | 1.0 |  |

| Surrogate                | %REC | Limits |  |
|--------------------------|------|--------|--|
| Bromofluorobenzene (FID) | 110  | 67-137 |  |

Field ID: B-10@15FT Lab ID: 251882-008

Type: SAMPLE

| Analyte         | Result | RL  |  |
|-----------------|--------|-----|--|
| Gasoline C7-C12 | ND     | 1.0 |  |

| Surrogate                | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 109  | 67-137 |

ND= Not Detected

RL= Reporting Limit

Page 1 of 2 15.0

<sup>\*=</sup> Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard



Total Volatile Hydrocarbons Lab #: 251882 Location: 6501 Shattuck Ave., Oakland Client: SOMA Environmental Engineering Inc. EPA 5030B Prep: EPA 8015B Project#: 5032 Analysis: Soil 206550 Matrix: Batch#: Sampled: Units: mg/Kg 12/20/13 Basis: as received Received: 12/20/13 Diln Fac: 1.000 Analyzed: 12/26/13

Field ID: B-10@21FT Lab ID: 251882-013

Type: SAMPLE

| Analyte         | Result | RL   |  |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND     | 0.98 |  |

| Limits |
|--------|
| 67-137 |

Field ID: B-10@7FT Lab ID: 251882-014

Type: SAMPLE

| Analyte         | Result | RL   |  |
|-----------------|--------|------|--|
| Gasoline C7-C12 | 7.1 Y  | 0.93 |  |

| Surrogate                | %REC  | Limits |  |
|--------------------------|-------|--------|--|
| Bromofluorobenzene (FID) | 140 * | 67-137 |  |

Type: BLANK Lab ID: QC722093

| Analyte         | Result | RL   |  |
|-----------------|--------|------|--|
| Gasoline C7-C12 | ND     | 0.20 |  |

ND= Not Detected

RL= Reporting Limit

Page 2 of 2 15.0

<sup>\*=</sup> Value outside of QC limits; see narrative

Y= Sample exhibits chromatographic pattern which does not resemble standard



## Batch QC Report

| Total Volatile Hydrocarbons |                                     |           |                             |  |  |
|-----------------------------|-------------------------------------|-----------|-----------------------------|--|--|
| Lab #:                      | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |
| Client:                     | SOMA Environmental Engineering Inc. | Prep:     | EPA 5030B                   |  |  |
| Project#:                   | 5032                                | Analysis: | EPA 8015B                   |  |  |
| Type:                       | LCS                                 | Diln Fac: | 1.000                       |  |  |
| Lab ID:                     | QC722092                            | Batch#:   | 206550                      |  |  |
| Matrix:                     | Soil                                | Analyzed: | 12/26/13                    |  |  |
| Units:                      | mg/Kg                               |           |                             |  |  |

| Analyte         | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1.000  | 1.046  | 105  | 80-120 |

| Surrogate %REC Limit              |
|-----------------------------------|
| romofluorobenzene (FID) 106 67-13 |

Page 1 of 1



Batch QC Report

|            | ;                     | Total Volatil   | e Hydrocarbons |                             |
|------------|-----------------------|-----------------|----------------|-----------------------------|
| Lab #:     | 251882                |                 | Location:      | 6501 Shattuck Ave., Oakland |
| Client:    | SOMA Environmental Er | ngineering Inc. | Prep:          | EPA 5030B                   |
| Project#:  | 5032                  |                 | Analysis:      | EPA 8015B                   |
| Field ID:  | ZZZZZZZZZ             |                 | Diln Fac:      | 1.000                       |
| MSS Lab II | 251859-010            |                 | Batch#:        | 206550                      |
| Matrix:    | Soil                  |                 | Sampled:       | 12/19/13                    |
| Units:     | mg/Kg                 |                 | Received:      | 12/19/13                    |
| Basis:     | as received           |                 | Analyzed:      | 12/26/13                    |

Type: MS Lab ID: QC722094

| Analyte         | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 0.1083     | 10.87  | 7.872  | 71   | 42-120 |

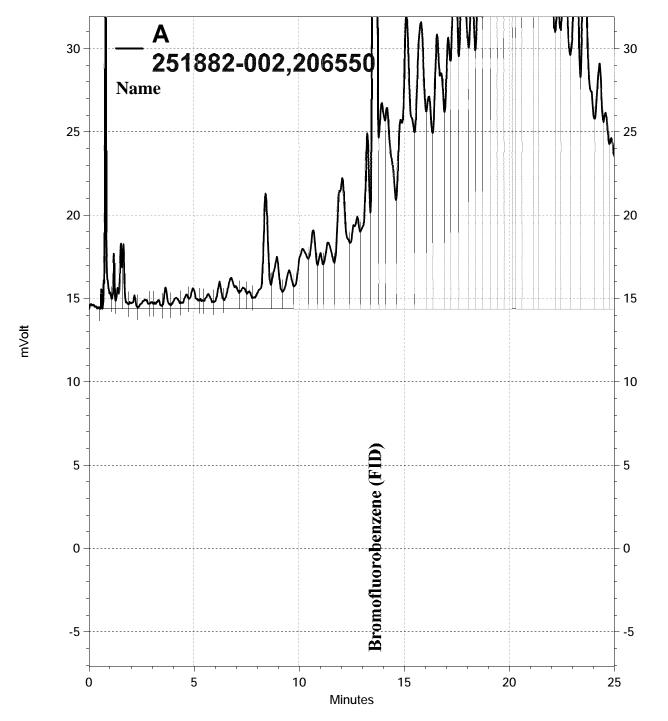
| Surrogate %REC               | Limits |
|------------------------------|--------|
| Bromofluorobenzene (FID) 114 | 67_13  |

Type: MSD Lab ID: QC722095

| Analyte         | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 10.42  | 7.539  | 71   | 42-120 | 0   | 44  |

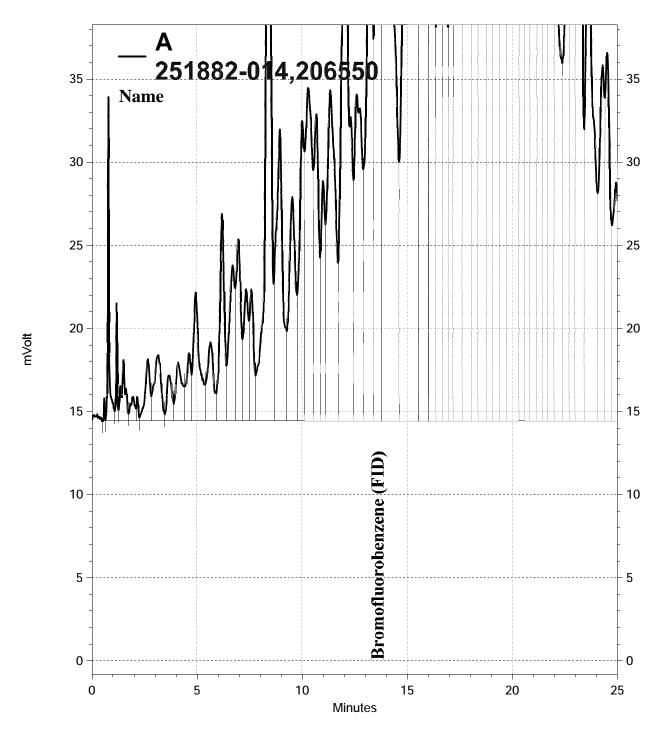
| Surrogate %REC Limits              |
|------------------------------------|
| comofluorobenzene (FID) 115 67-137 |





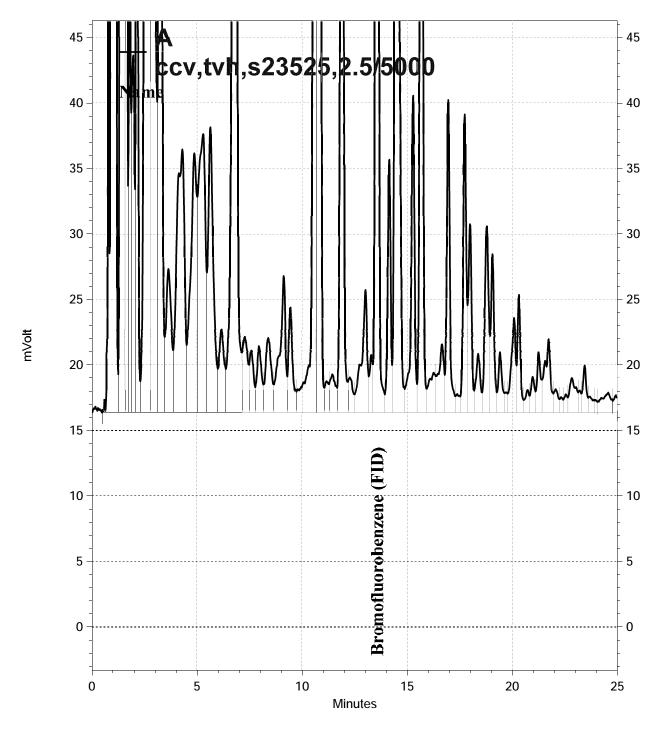
\Lims\gdrive\ezchrom\Projects\GC05\Data\360-013, A





\Lims\gdrive\ezchrom\Projects\GC05\Data\360-017, A





\Lims\gdrive\ezchrom\Projects\GC05\Data\360-003, A



|           | Purgeable Organics by GC/MS |                  |           |                             |  |  |  |  |
|-----------|-----------------------------|------------------|-----------|-----------------------------|--|--|--|--|
| Lab #:    | 251882                      |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |  |  |
| Client:   | SOMA Environmental          | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |  |  |
| Project#: | 5032                        | _                | Analysis: | EPA 8260B                   |  |  |  |  |
| Field ID: | B-10                        |                  | Batch#:   | 206492                      |  |  |  |  |
| Lab ID:   | 251882-015                  |                  | Sampled:  | 12/20/13                    |  |  |  |  |
| Matrix:   | Water                       |                  | Received: | 12/20/13                    |  |  |  |  |
| Units:    | uq/L                        |                  | Analyzed: | 12/23/13                    |  |  |  |  |
| Diln Fac: | 1.000                       |                  | -         |                             |  |  |  |  |

| Analyte                       | Result   | RL    |
|-------------------------------|----------|-------|
| Gasoline C7-C12               | ND       | 50    |
| Freon 12                      | ND       | 1.0   |
| tert-Butyl Alcohol (TBA)      | ND       | 10    |
| Chloromethane                 | ND       | 1.0   |
|                               | ND<br>ND | 0.5   |
| Isopropyl Ether (DIPE)        |          |       |
| Vinyl Chloride                | ND       | 0.5   |
| Bromomethane                  | ND       | 1.0   |
| Ethyl tert-Butyl Ether (ETBE) | ND       | 0.5   |
| Chloroethane                  | ND       | 1.0   |
| Methyl tert-Amyl Ether (TAME) | ND       | 0.5   |
| Trichlorofluoromethane        | ND       | 1.0   |
| Ethanol                       | ND       | 1,000 |
| Acetone                       | ND       | 10    |
| Freon 113                     | ND       | 5.0   |
| 1,1-Dichloroethene            | ND       | 0.5   |
| Methylene Chloride            | ND       | 10    |
| Carbon Disulfide              | ND       | 0.5   |
| MTBE                          | ND       | 0.5   |
| trans-1,2-Dichloroethene      | ND       | 0.5   |
| Vinyl Acetate                 | ND       | 10    |
| 1,1-Dichloroethane            | ND       | 0.5   |
| 2-Butanone                    | ND       | 10    |
| cis-1,2-Dichloroethene        | ND       | 0.5   |
| 2,2-Dichloropropane           | ND       | 0.5   |
|                               | ND<br>ND | 0.5   |
| Chloroform                    |          | 0.5   |
| Bromochloromethane            | ND       |       |
| 1,1,1-Trichloroethane         | ND       | 0.5   |
| 1,1-Dichloropropene           | ND       | 0.5   |
| Carbon Tetrachloride          | ND       | 0.5   |
| 1,2-Dichloroethane            | ND       | 0.5   |
| Benzene                       | ND       | 0.5   |
| Trichloroethene               | ND       | 0.5   |
| 1,2-Dichloropropane           | ND       | 0.5   |
| Bromodichloromethane          | ND       | 0.5   |
| Dibromomethane                | ND       | 0.5   |
| 4-Methyl-2-Pentanone          | ND       | 10    |
| cis-1,3-Dichloropropene       | ND       | 0.5   |
| Toluene                       | ND       | 0.5   |
| trans-1,3-Dichloropropene     | ND       | 0.5   |
| 1,1,2-Trichloroethane         | ND       | 0.5   |
| 2-Hexanone                    | ND       | 10    |
| 1,3-Dichloropropane           | ND       | 0.5   |
| Tetrachloroethene             | ND       | 0.5   |
| Dibromochloromethane          | ND       | 0.5   |
| 1,2-Dibromoethane             | ND       | 0.5   |
| Chlorobenzene                 | ND<br>ND | 0.5   |
| 1,1,1,2-Tetrachloroethane     | ND<br>ND | 0.5   |
|                               | ND<br>ND | 0.5   |
| Ethylbenzene                  |          |       |
| m,p-Xylenes                   | ND       | 0.5   |
| o-Xylene                      | ND       | 0.5   |
| Styrene                       | ND       | 0.5   |
| Bromoform                     | ND       | 1.0   |
| Isopropylbenzene              | ND       | 0.5   |
| 1,1,2,2-Tetrachloroethane     | ND       | 0.5   |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |  |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|--|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |  |
| Project#:                   |                    | 5                | Analysis: | EPA 8260B                   |  |  |  |
| Field ID:                   | B-10               |                  | Batch#:   | 206492                      |  |  |  |
| Lab ID:                     | 251882-015         |                  | Sampled:  | 12/20/13                    |  |  |  |
| Matrix:                     | Water              |                  | Received: | 12/20/13                    |  |  |  |
| Units:                      | ug/L               |                  | Analyzed: | 12/23/13                    |  |  |  |
| Diln Fac:                   | 1.000              |                  |           |                             |  |  |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| 1,2,3-Trichloropropane      | ND     | 0.5 |  |
| Propylbenzene               | ND     | 0.5 |  |
| Bromobenzene                | ND     | 0.5 |  |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |  |
| 2-Chlorotoluene             | ND     | 0.5 |  |
| 4-Chlorotoluene             | ND     | 0.5 |  |
| tert-Butylbenzene           | ND     | 0.5 |  |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |  |
| sec-Butylbenzene            | ND     | 0.5 |  |
| para-Isopropyl Toluene      | ND     | 0.5 |  |
| 1,3-Dichlorobenzene         | ND     | 0.5 |  |
| 1,4-Dichlorobenzene         | ND     | 0.5 |  |
| n-Butylbenzene              | ND     | 0.5 |  |
| 1,2-Dichlorobenzene         | ND     | 0.5 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |  |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |  |
| Hexachlorobutadiene         | ND     | 2.0 |  |
| Naphthalene                 | ND     | 2.0 |  |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 103  | 77-136 |
| 1,2-Dichloroethane-d4 | 98   | 75-139 |
| Toluene-d8            | 96   | 80-120 |
| Bromofluorobenzene    | 104  | 80-120 |



| Purgeable Organics by GC/MS    |  |                  |                                 |   |  |  |
|--------------------------------|--|------------------|---------------------------------|---|--|--|
| Lab #:<br>Client:<br>Project#: | 251882<br>SOMA Environmental E<br>5032 | Engineering Inc. | Location:<br>Prep:<br>Analysis: | 6501 Shattuck Ave., Oakland<br>EPA 5030B<br>EPA 8260B |  |  |
| Matrix:<br>Units:<br>Diln Fac: | Water<br>ug/L<br>1.000                 |                  | Batch#:<br>Analyzed:            | 206492<br>12/23/13                                    |  |  |

Type: BS Lab ID: QC721845

| Analyte                       | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA)      | 125.0  | 120.2  | 96   | 37-151 |
| Isopropyl Ether (DIPE)        | 25.00  | 25.14  | 101  | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00  | 23.81  | 95   | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 25.00  | 22.92  | 92   | 65-120 |
| 1,1-Dichloroethene            | 25.00  | 22.48  | 90   | 65-134 |
| Benzene                       | 25.00  | 25.21  | 101  | 80-124 |
| Trichloroethene               | 25.00  | 24.43  | 98   | 80-120 |
| Toluene                       | 25.00  | 24.05  | 96   | 80-122 |
| Chlorobenzene                 | 25.00  | 25.75  | 103  | 80-120 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 104  | 77-136 |
| 1,2-Dichloroethane-d4 | 100  | 75-139 |
| Toluene-d8            | 93   | 80-120 |
| Bromofluorobenzene    | 98   | 80-120 |

Type: BSD Lab ID: QC721846

| Analyte                       | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA)      | 125.0  | 129.5  | 104  | 37-151 | 7   | 30  |
| Isopropyl Ether (DIPE)        | 25.00  | 25.68  | 103  | 56-124 | 2   | 20  |
| Ethyl tert-Butyl Ether (ETBE) | 25.00  | 25.19  | 101  | 61-122 | 6   | 22  |
| Methyl tert-Amyl Ether (TAME) | 25.00  | 23.28  | 93   | 65-120 | 2   | 22  |
| 1,1-Dichloroethene            | 25.00  | 23.45  | 94   | 65-134 | 4   | 20  |
| Benzene                       | 25.00  | 24.79  | 99   | 80-124 | 2   | 20  |
| Trichloroethene               | 25.00  | 24.21  | 97   | 80-120 | 1   | 20  |
| Toluene                       | 25.00  | 23.62  | 94   | 80-122 | 2   | 20  |
| Chlorobenzene                 | 25.00  | 25.80  | 103  | 80-120 | 0   | 20  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 103  | 77-136 |
| 1,2-Dichloroethane-d4 | 95   | 75-139 |
| Toluene-d8            | 92   | 80-120 |
| Bromofluorobenzene    | 101  | 80-120 |



| Purgeable Organics by GC/MS           |                                      |                  |                                   |   |  |  |
|---------------------------------------|--------------------------------------|------------------|-----------------------------------|---|--|--|
| Lab #:<br>Client:<br>Project#:        | 251882<br>SOMA Environmental<br>5032 | Engineering Inc. | Location:<br>Prep:<br>Analysis:   | 6501 Shattuck Ave., Oakland<br>EPA 5030B<br>EPA 8260B |  |  |
| Type:<br>Lab ID:<br>Matrix:<br>Units: | BLANK<br>QC721847<br>Water<br>ug/L   |                  | Diln Fac:<br>Batch#:<br>Analyzed: | 1.000<br>206492<br>12/23/13                           |  |  |

| Analyte                       | Result | RL    |
|-------------------------------|--------|-------|
| Gasoline C7-C12               | ND     | 50    |
| Freon 12                      | ND     | 1.0   |
| tert-Butyl Alcohol (TBA)      | ND     | 10    |
| Chloromethane                 | ND     | 1.0   |
| Isopropyl Ether (DIPE)        | ND     | 0.5   |
| Vinyl Chloride                | ND     | 0.5   |
| Bromomethane                  | ND     | 1.0   |
| Ethyl tert-Butyl Ether (ETBE) | ND     | 0.5   |
| Chloroethane                  | ND     | 1.0   |
| Methyl tert-Amyl Ether (TAME) | ND     | 0.5   |
| Trichlorofluoromethane        | ND     | 1.0   |
| Ethanol                       | ND     | 1,000 |
| Acetone                       | ND     | 10    |
| Freon 113                     | ND     | 5.0   |
| 1,1-Dichloroethene            | ND     | 0.5   |
| Methylene Chloride            | ND     | 10    |
| Carbon Disulfide              | ND     | 0.5   |
| MTBE                          | ND     | 0.5   |
| trans-1,2-Dichloroethene      | ND     | 0.5   |
| Vinyl Acetate                 | ND     | 10    |
| 1,1-Dichloroethane            | ND     | 0.5   |
| 2-Butanone                    | ND     | 10    |
| cis-1,2-Dichloroethene        | ND     | 0.5   |
| 2,2-Dichloropropane           | ND     | 0.5   |
| Chloroform                    | ND     | 0.5   |
| Bromochloromethane            | ND     | 0.5   |
| 1,1,1-Trichloroethane         | ND     | 0.5   |
| 1,1-Dichloropropene           | ND     | 0.5   |
| Carbon Tetrachloride          | ND     | 0.5   |
| 1,2-Dichloroethane            | ND     | 0.5   |
| Benzene                       | ND     | 0.5   |
| Trichloroethene               | ND     | 0.5   |
| 1,2-Dichloropropane           | ND     | 0.5   |
| Bromodichloromethane          | ND     | 0.5   |
| Dibromomethane                | ND     | 0.5   |
| 4-Methyl-2-Pentanone          | ND     | 10    |
| cis-1,3-Dichloropropene       | ND     | 0.5   |
| Toluene                       | ND     | 0.5   |
| trans-1,3-Dichloropropene     | ND     | 0.5   |
| 1,1,2-Trichloroethane         | ND     | 0.5   |
| 2-Hexanone                    | ND     | 10    |
| 1,3-Dichloropropane           | ND     | 0.5   |
| Tetrachloroethene             | ND     | 0.5   |
| Dibromochloromethane          | ND     | 0.5   |
| 1,2-Dibromoethane             | ND     | 0.5   |
| Chlorobenzene                 | ND     | 0.5   |
| 1,1,1,2-Tetrachloroethane     | ND     | 0.5   |
| Ethylbenzene                  | ND     | 0.5   |
| m,p-Xylenes                   | ND     | 0.5   |
| o-Xylene                      | ND     | 0.5   |
| Styrene                       | ND     | 0.5   |
| Bromoform                     | ND     | 1.0   |
| Isopropylbenzene              | ND     | 0.5   |
| 1,1,2,2-Tetrachloroethane     | ND     | 0.5   |

ND= Not Detected RL= Reporting Limit Page 1 of 2



| Purgeable Organics by GC/MS           |                                      |                  |                                   |   |  |  |
|---------------------------------------|--------------------------------------|------------------|-----------------------------------|---|--|--|
| Lab #:<br>Client:<br>Project#:        | 251882<br>SOMA Environmental<br>5032 | Engineering Inc. | Location:<br>Prep:<br>Analysis:   | 6501 Shattuck Ave., Oakland<br>EPA 5030B<br>EPA 8260B |  |  |
| Type:<br>Lab ID:<br>Matrix:<br>Units: | BLANK<br>QC721847<br>Water<br>ug/L   |                  | Diln Fac:<br>Batch#:<br>Analyzed: | 1.000<br>206492<br>12/23/13                           |  |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| 1,2,3-Trichloropropane      | ND     | 0.5 |  |
| Propylbenzene               | ND     | 0.5 |  |
| Bromobenzene                | ND     | 0.5 |  |
| 1,3,5-Trimethylbenzene      | ND     | 0.5 |  |
| 2-Chlorotoluene             | ND     | 0.5 |  |
| 4-Chlorotoluene             | ND     | 0.5 |  |
| tert-Butylbenzene           | ND     | 0.5 |  |
| 1,2,4-Trimethylbenzene      | ND     | 0.5 |  |
| sec-Butylbenzene            | ND     | 0.5 |  |
| para-Isopropyl Toluene      | ND     | 0.5 |  |
| 1,3-Dichlorobenzene         | ND     | 0.5 |  |
| 1,4-Dichlorobenzene         | ND     | 0.5 |  |
| n-Butylbenzene              | ND     | 0.5 |  |
| 1,2-Dichlorobenzene         | ND     | 0.5 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 2.0 |  |
| 1,2,4-Trichlorobenzene      | ND     | 0.5 |  |
| Hexachlorobutadiene         | ND     | 2.0 |  |
| Naphthalene                 | ND     | 2.0 |  |
| 1,2,3-Trichlorobenzene      | ND     | 0.5 |  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 100  | 77-136 |
| 1,2-Dichloroethane-d4 | 95   | 75-139 |
| Toluene-d8            | 93   | 80-120 |
| Bromofluorobenzene    | 104  | 80-120 |

ND= Not Detected RL= Reporting Limit Page 2 of 2



| Purgeable Organics by GC/MS |                                     |           |                             |  |  |  |  |
|-----------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|--|
| Lab #:                      | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |  |
| Client:                     | SOMA Environmental Engineering Inc. | . Prep:   | EPA 5030B                   |  |  |  |  |
| Project#:                   | 5032                                | Analysis: | EPA 8260B                   |  |  |  |  |
| Matrix:                     | Water                               | Batch#:   | 206492                      |  |  |  |  |
| Units:                      | ug/L                                | Analyzed: | 12/23/13                    |  |  |  |  |
| Diln Fac:                   | 1.000                               |           |                             |  |  |  |  |

Type: BS Lab ID: QC721882

| Analyte         | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000  | 945.5  | 95   | 70-130 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 103  | 77-136 |
| 1,2-Dichloroethane-d4 | 97   | 75-139 |
| Toluene-d8            | 91   | 80-120 |
| Bromofluorobenzene    | 101  | 80-120 |

Type: BSD Lab ID: QC721883

| Analyte         | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 1,000  | 1,084  | 108  | 70-130 |     | 20  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 102  | 77-136 |
| 1,2-Dichloroethane-d4 | 96   | 75-139 |
| Toluene-d8            | 94   | 80-120 |
| Bromofluorobenzene    | 101  | 80-120 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |  |
| Field ID:                   | B-10@9FT           |                  | Diln Fac: | 0.9690                      |  |  |
| Lab ID:                     | 251882-002         |                  | Batch#:   | 206484                      |  |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |  |

| Analyte                       | Result | RL  |
|-------------------------------|--------|-----|
| Freon 12                      | ND     | 9.7 |
| tert-Butyl Alcohol (TBA)      | ND     | 97  |
| Chloromethane                 | ND     | 9.7 |
| Isopropyl Ether (DIPE)        | ND     | 4.8 |
| Vinyl Chloride                | ND     | 9.7 |
| Bromomethane                  | ND     | 9.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND     | 4.8 |
| Chloroethane                  | ND     | 9.7 |
| Methyl tert-Amyl Ether (TAME) | ND     | 4.8 |
| Trichlorofluoromethane        | ND     | 4.8 |
| Ethanol                       | ND     | 970 |
| Acetone                       | ND     | 19  |
| Freon 113                     | ND     | 4.8 |
| 1,1-Dichloroethene            | ND     | 4.8 |
| Methylene Chloride            | ND     | 19  |
| Carbon Disulfide              | ND     | 4.8 |
| MTBE                          | ND     | 4.8 |
| trans-1,2-Dichloroethene      | ND     | 4.8 |
| Vinyl Acetate                 | ND     | 48  |
| 1,1-Dichloroethane            | ND     | 4.8 |
| 2-Butanone                    | ND     | 9.7 |
| cis-1,2-Dichloroethene        | ND     | 4.8 |
| 2,2-Dichloropropane           | ND     | 4.8 |
| Chloroform                    | ND     | 4.8 |
| Bromochloromethane            | ND     | 4.8 |
| 1,1,1-Trichloroethane         | ND     | 4.8 |
| 1,1-Dichloropropene           | ND     | 4.8 |
| Carbon Tetrachloride          | ND     | 4.8 |
| 1,2-Dichloroethane            | ND     | 4.8 |
| Benzene                       | ND     | 4.8 |
| Trichloroethene               | ND     | 4.8 |
| 1,2-Dichloropropane           | ND     | 4.8 |
| Bromodichloromethane          | ND     | 4.8 |
| Dibromomethane                | ND     | 4.8 |
| 4-Methyl-2-Pentanone          | ND     | 9.7 |
| cis-1,3-Dichloropropene       | ND     | 4.8 |
| Toluene                       | ND     | 4.8 |
| trans-1,3-Dichloropropene     | ND     | 4.8 |
| 1,1,2-Trichloroethane         | ND     | 4.8 |
| 2-Hexanone                    | ND     | 9.7 |
| 1,3-Dichloropropane           | ND     | 4.8 |
| Tetrachloroethene             | ND     | 4.8 |
| Dibromochloromethane          | ND     | 4.8 |
| 1,2-Dibromoethane             | ND     | 4.8 |
| Chlorobenzene                 | ND     | 4.8 |
| 1,1,1,2-Tetrachloroethane     | ND     | 4.8 |
| Ethylbenzene                  | ND     | 4.8 |
| m,p-Xylenes                   | ND     | 4.8 |
| o-Xylene                      | ND     | 4.8 |
| Styrene                       | ND     | 4.8 |
| Bromoform                     | ND     | 4.8 |
| Isopropylbenzene              | ND     | 4.8 |
| 1,1,2,2-Tetrachloroethane     | ND     | 4.8 |
| 1,2,3-Trichloropropane        | ND     | 4.8 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |
| Project#:                   | 5032               | 5                | Analysis: | EPA 8260B                   |  |  |
| Field ID:                   | B-10@9FT           |                  | Diln Fac: | 0.9690                      |  |  |
| Lab ID:                     | 251882-002         |                  | Batch#:   | 206484                      |  |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 4.8 |  |
| Bromobenzene                | ND     | 4.8 |  |
| 1,3,5-Trimethylbenzene      | ND     | 4.8 |  |
| 2-Chlorotoluene             | ND     | 4.8 |  |
| 4-Chlorotoluene             | ND     | 4.8 |  |
| tert-Butylbenzene           | ND     | 4.8 |  |
| 1,2,4-Trimethylbenzene      | ND     | 4.8 |  |
| sec-Butylbenzene            | ND     | 4.8 |  |
| para-Isopropyl Toluene      | ND     | 4.8 |  |
| 1,3-Dichlorobenzene         | ND     | 4.8 |  |
| 1,4-Dichlorobenzene         | ND     | 4.8 |  |
| n-Butylbenzene              | ND     | 4.8 |  |
| 1,2-Dichlorobenzene         | ND     | 4.8 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.8 |  |
| 1,2,4-Trichlorobenzene      | ND     | 4.8 |  |
| Hexachlorobutadiene         | ND     | 4.8 |  |
| Naphthalene                 | ND     | 4.8 |  |
| 1,2,3-Trichlorobenzene      | ND     | 4.8 |  |

| Surrogate               | %REC | Limits |
|-------------------------|------|--------|
| Dibromofluoromethane 9  | 93   | 76-128 |
| 1,2-Dichloroethane-d4 1 | 110  | 80-137 |
| Toluene-d8 9            | 92   | 80-120 |
| Bromofluorobenzene 9    | 94   | 79-128 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@10FT          |                  | Diln Fac: | 0.9766                      |  |
| Lab ID:                     | 251882-003         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                       | Result   | RL          |
|-------------------------------|----------|-------------|
| Freon 12                      | ND       | 9.8         |
| tert-Butyl Alcohol (TBA)      | ND       | 98          |
| Chloromethane                 | ND       | 9.8         |
| Isopropyl Ether (DIPE)        | ND       | 4.9         |
| Vinyl Chloride                | ND       | 9.8         |
| Bromomethane                  | ND       | 9.8         |
| Ethyl tert-Butyl Ether (ETBE) | ND       | 4.9         |
| Chloroethane                  | ND       | 9.8         |
| Methyl tert-Amyl Ether (TAME) | ND       | 4.9         |
| Trichlorofluoromethane        | ND       | 4.9         |
| Ethanol                       | ND       | 980         |
| Acetone                       | ND       | 20          |
| Freon 113                     | ND       | 4.9         |
| 1,1-Dichloroethene            | ND       | 4.9         |
| Methylene Chloride            | ND       | 20          |
| Carbon Disulfide              | ND       | 4.9         |
| MTBE                          | ND       | 4.9         |
| trans-1,2-Dichloroethene      | ND       | 4.9         |
| Vinyl Acetate                 | ND       | 49          |
| 1,1-Dichloroethane            | ND       | 4.9         |
| 2-Butanone                    | ND       | 9.8         |
| cis-1,2-Dichloroethene        | ND       | 4.9         |
| 2,2-Dichloropropane           | ND       | 4.9         |
| Chloroform                    | ND       | 4.9         |
| Bromochloromethane            | ND       | 4.9         |
| 1,1,1-Trichloroethane         | ND       | 4.9         |
| 1,1-Dichloropropene           | ND       | 4.9         |
| Carbon Tetrachloride          | ND       | 4.9         |
| 1,2-Dichloroethane            | ND       | 4.9         |
| Benzene                       | ND       | 4.9         |
| Trichloroethene               | ND       | 4.9         |
| 1,2-Dichloropropane           | ND       | 4.9         |
| Bromodichloromethane          | ND       | 4.9         |
| Dibromomethane                | ND       | 4.9         |
| 4-Methyl-2-Pentanone          | ND       | 9.8         |
| cis-1,3-Dichloropropene       | ND       | 4.9         |
| Toluene                       | ND       | 4.9         |
| trans-1,3-Dichloropropene     | ND       | 4.9         |
| 1,1,2-Trichloroethane         | ND       | 4.9         |
| 2-Hexanone                    | ND       | 9.8         |
| 1,3-Dichloropropane           | ND       | 4.9         |
| Tetrachloroethene             | ND       | 4.9         |
| Dibromochloromethane          | ND       | 4.9         |
| 1,2-Dibromoethane             | ND       | 4.9         |
| Chlorobenzene                 | ND       | 4.9<br>4.9  |
| 1,1,1,2-Tetrachloroethane     | ND       |             |
| Ethylbenzene                  | ND       | 4.9<br>4.9  |
| m,p-Xylenes                   | ND       | 4.9         |
| o-Xylene                      | ND<br>ND | 4.9         |
| Styrene<br>  Bromoform        | ND<br>ND | 4.9         |
| Isopropylbenzene              | ND<br>ND | 4.9         |
| 1,1,2,2-Tetrachloroethane     | ND<br>ND | 4.9         |
| 1,2,3-Trichloropropane        | ND<br>ND | 4.9         |
| 1,2,3-111CIIIOLOPLOPAILE      | עווד     | <b>エ・</b> フ |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               | 5                | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@10FT          |                  | Diln Fac: | 0.9766                      |  |
| Lab ID:                     | 251882-003         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 4.9 |  |
| Bromobenzene                | ND     | 4.9 |  |
| 1,3,5-Trimethylbenzene      | ND     | 4.9 |  |
| 2-Chlorotoluene             | ND     | 4.9 |  |
| 4-Chlorotoluene             | ND     | 4.9 |  |
| tert-Butylbenzene           | ND     | 4.9 |  |
| 1,2,4-Trimethylbenzene      | ND     | 4.9 |  |
| sec-Butylbenzene            | ND     | 4.9 |  |
| para-Isopropyl Toluene      | ND     | 4.9 |  |
| 1,3-Dichlorobenzene         | ND     | 4.9 |  |
| 1,4-Dichlorobenzene         | ND     | 4.9 |  |
| n-Butylbenzene              | ND     | 4.9 |  |
| 1,2-Dichlorobenzene         | ND     | 4.9 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.9 |  |
| 1,2,4-Trichlorobenzene      | ND     | 4.9 |  |
| Hexachlorobutadiene         | ND     | 4.9 |  |
| Naphthalene                 | ND     | 4.9 |  |
| 1,2,3-Trichlorobenzene      | ND     | 4.9 |  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 92   | 76-128 |
| 1,2-Dichloroethane-d4 | 91   | 80-137 |
| Toluene-d8            | 90   | 80-120 |
| Bromofluorobenzene    | 88   | 79-128 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |  |
| Field ID:                   | B-10@15FT          |                  | Diln Fac: | 0.9434                      |  |  |
| Lab ID:                     | 251882-008         |                  | Batch#:   | 206484                      |  |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |  |

| Analyte                                | Result   | RL           |
|--|----------|--------------|
| Freon 12                               | ND       | 9.4          |
| tert-Butyl Alcohol (TBA)               | ND       | 94           |
| Chloromethane                          | ND       | 9.4          |
| Isopropyl Ether (DIPE)                 | ND       | 4.7          |
| Vinyl Chloride                         | ND       | 9.4          |
| Bromomethane                           | ND       | 9.4          |
| Ethyl tert-Butyl Ether (ETBE)          | ND       | 4.7          |
| Chloroethane                           | ND       | 9.4          |
| Methyl tert-Amyl Ether (TAME)          | ND       | 4.7          |
| Trichlorofluoromethane                 | ND       | 4.7          |
| Ethanol                                | ND       | 940          |
| Acetone                                | ND       | 19           |
| Freon 113                              | ND       | 4.7          |
| 1,1-Dichloroethene                     | ND       | 4.7          |
| Methylene Chloride                     | ND       | 19           |
| Carbon Disulfide                       | ND       | 4.7          |
| MTBE                                   | ND       | 4.7          |
| trans-1,2-Dichloroethene               | ND       | 4.7          |
| Vinyl Acetate                          | ND       | 47           |
| 1,1-Dichloroethane                     | ND       | 4.7          |
| 2-Butanone                             | ND       | 9.4          |
| cis-1,2-Dichloroethene                 | ND       | 4.7          |
| 2,2-Dichloropropane                    | ND       | 4.7          |
| Chloroform                             | ND       | 4.7          |
| Bromochloromethane                     | ND       | 4.7          |
| 1,1,1-Trichloroethane                  | ND       | 4.7          |
| 1,1-Dichloropropene                    | ND       | 4.7          |
| Carbon Tetrachloride                   | ND       | 4.7          |
| 1,2-Dichloroethane                     | ND       | 4.7          |
| Benzene                                | ND       | 4.7          |
| Trichloroethene                        | ND       | 4.7          |
| 1,2-Dichloropropane                    | ND       | 4.7          |
| Bromodichloromethane                   | ND       | 4.7          |
| Dibromomethane                         | ND       | 4.7          |
| 4-Methyl-2-Pentanone                   | ND       | 9.4          |
| cis-1,3-Dichloropropene                | ND       | 4.7          |
| Toluene                                | ND       | 4.7          |
| trans-1,3-Dichloropropene              | ND       | 4.7          |
| 1,1,2-Trichloroethane                  | ND       | 4.7          |
| 2-Hexanone                             | ND       | $9.4 \\ 4.7$ |
| 1,3-Dichloropropane                    | ND       |              |
| Tetrachloroethene Dibromochloromethane | ND<br>ND | 4.7 $4.7$    |
|  | ND<br>ND | 4.7          |
| 1,2-Dibromoethane<br>Chlorobenzene     | ND<br>ND | 4.7          |
| 1,1,1,2-Tetrachloroethane              | ND<br>ND | 4.7          |
| Ethylbenzene                           | ND<br>ND | 4.7          |
| m,p-Xylenes                            | ND<br>ND | 4.7          |
| o-Xylene                               | ND<br>ND | 4.7          |
| Styrene                                | ND<br>ND | 4.7          |
| Bromoform                              | ND<br>ND | 4.7          |
| Isopropylbenzene                       | ND<br>ND | 4.7          |
| 1,1,2,2-Tetrachloroethane              | ND<br>ND | 4.7          |
| 1,2,3-Trichloropropane                 | ND<br>ND | 4.7          |
| 1,2,3 ILICITIOLOPIOPARE                | עווד     | T. /         |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@15FT          |                  | Diln Fac: | 0.9434                      |  |
| Lab ID:                     | 251882-008         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 4.7 |  |
| Bromobenzene                | ND     | 4.7 |  |
| 1,3,5-Trimethylbenzene      | ND     | 4.7 |  |
| 2-Chlorotoluene             | ND     | 4.7 |  |
| 4-Chlorotoluene             | ND     | 4.7 |  |
| tert-Butylbenzene           | ND     | 4.7 |  |
| 1,2,4-Trimethylbenzene      | ND     | 4.7 |  |
| sec-Butylbenzene            | ND     | 4.7 |  |
| para-Isopropyl Toluene      | ND     | 4.7 |  |
| 1,3-Dichlorobenzene         | ND     | 4.7 |  |
| 1,4-Dichlorobenzene         | ND     | 4.7 |  |
| n-Butylbenzene              | ND     | 4.7 |  |
| 1,2-Dichlorobenzene         | ND     | 4.7 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.7 |  |
| 1,2,4-Trichlorobenzene      | ND     | 4.7 |  |
| Hexachlorobutadiene         | ND     | 4.7 |  |
| Naphthalene                 | ND     | 4.7 |  |
| 1,2,3-Trichlorobenzene      | ND     | 4.7 |  |

| Surrogate                | %REC | Limits |
|--------------------------|------|--------|
| Dibromofluoromethane 9:  | 93   | 76-128 |
| 1,2-Dichloroethane-d4 9! | 95   | 80-137 |
| Toluene-d8 80            | 36   | 80-120 |
| Bromofluorobenzene 89    | 39   | 79-128 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@21FT          |                  | Diln Fac: | 0.9560                      |  |
| Lab ID:                     | 251882-013         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                       | Result | RL  |
|-------------------------------|--------|-----|
| Freon 12                      | ND     | 9.6 |
| tert-Butyl Alcohol (TBA)      | ND     | 96  |
| Chloromethane                 | ND     | 9.6 |
| Isopropyl Ether (DIPE)        | ND     | 4.8 |
| Vinyl Chloride                | ND     | 9.6 |
| Bromomethane                  | ND     | 9.6 |
| Ethyl tert-Butyl Ether (ETBE) | ND     | 4.8 |
| Chloroethane                  | ND     | 9.6 |
| Methyl tert-Amyl Ether (TAME) | ND     | 4.8 |
| Trichlorofluoromethane        | ND     | 4.8 |
| Ethanol                       | ND     | 960 |
| Acetone                       | ND     | 19  |
| Freon 113                     | ND     | 4.8 |
| 1,1-Dichloroethene            | ND     | 4.8 |
| Methylene Chloride            | ND     | 19  |
| Carbon Disulfide              | ND     | 4.8 |
| MTBE                          | ND     | 4.8 |
| trans-1,2-Dichloroethene      | ND     | 4.8 |
| Vinyl Acetate                 | ND     | 48  |
| 1,1-Dichloroethane            | ND     | 4.8 |
| 2-Butanone                    | ND     | 9.6 |
| cis-1,2-Dichloroethene        | ND     | 4.8 |
| 2,2-Dichloropropane           | ND     | 4.8 |
| Chloroform                    | ND     | 4.8 |
| Bromochloromethane            | ND     | 4.8 |
| 1,1,1-Trichloroethane         | ND     | 4.8 |
| 1,1-Dichloropropene           | ND     | 4.8 |
| Carbon Tetrachloride          | ND     | 4.8 |
| 1,2-Dichloroethane            | ND     | 4.8 |
| Benzene                       | ND     | 4.8 |
| Trichloroethene               | ND     | 4.8 |
| 1,2-Dichloropropane           | ND     | 4.8 |
| Bromodichloromethane          | ND     | 4.8 |
| Dibromomethane                | ND     | 4.8 |
| 4-Methyl-2-Pentanone          | ND     | 9.6 |
| cis-1,3-Dichloropropene       | ND     | 4.8 |
| Toluene                       | ND     | 4.8 |
| trans-1,3-Dichloropropene     | ND     | 4.8 |
| 1,1,2-Trichloroethane         | ND     | 4.8 |
| 2-Hexanone                    | ND     | 9.6 |
| 1,3-Dichloropropane           | ND     | 4.8 |
| Tetrachloroethene             | ND     | 4.8 |
| Dibromochloromethane          | ND     | 4.8 |
| 1,2-Dibromoethane             | ND     | 4.8 |
| Chlorobenzene                 | ND     | 4.8 |
| 1,1,1,2-Tetrachloroethane     | ND     | 4.8 |
| Ethylbenzene                  | ND     | 4.8 |
| m,p-Xylenes                   | ND     | 4.8 |
| o-Xylene                      | ND     | 4.8 |
| Styrene                       | ND     | 4.8 |
| Bromoform                     | ND     | 4.8 |
| Isopropylbenzene              | ND     | 4.8 |
| 1,1,2,2-Tetrachloroethane     | ND     | 4.8 |
| 1,2,3-Trichloropropane        | ND     | 4.8 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |  |
| Project#:                   | 5032               | _                | Analysis: | EPA 8260B                   |  |  |
| Field ID:                   | B-10@21FT          |                  | Diln Fac: | 0.9560                      |  |  |
| Lab ID:                     | 251882-013         |                  | Batch#:   | 206484                      |  |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 4.8 |  |
| Bromobenzene                | ND     | 4.8 |  |
| 1,3,5-Trimethylbenzene      | ND     | 4.8 |  |
| 2-Chlorotoluene             | ND     | 4.8 |  |
| 4-Chlorotoluene             | ND     | 4.8 |  |
| tert-Butylbenzene           | ND     | 4.8 |  |
| 1,2,4-Trimethylbenzene      | ND     | 4.8 |  |
| sec-Butylbenzene            | ND     | 4.8 |  |
| para-Isopropyl Toluene      | ND     | 4.8 |  |
| 1,3-Dichlorobenzene         | ND     | 4.8 |  |
| 1,4-Dichlorobenzene         | ND     | 4.8 |  |
| n-Butylbenzene              | ND     | 4.8 |  |
| 1,2-Dichlorobenzene         | ND     | 4.8 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.8 |  |
| 1,2,4-Trichlorobenzene      | ND     | 4.8 |  |
| Hexachlorobutadiene         | ND     | 4.8 |  |
| Naphthalene                 | ND     | 4.8 |  |
| 1,2,3-Trichlorobenzene      | ND     | 4.8 |  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 92   | 76-128 |
| 1,2-Dichloroethane-d4 | 90   | 80-137 |
| Toluene-d8            | 93   | 80-120 |
| Bromofluorobenzene    | 86   | 79-128 |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               |                  | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@7FT           |                  | Diln Fac: | 0.9785                      |  |
| Lab ID:                     | 251882-014         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | uq/Kq              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                       | Result   | RL          |
|-------------------------------|----------|-------------|
| Freon 12                      | ND       | 9.8         |
| tert-Butyl Alcohol (TBA)      | ND       | 98          |
| Chloromethane                 | ND       | 9.8         |
| Isopropyl Ether (DIPE)        | ND       | 4.9         |
| Vinyl Chloride                | ND       | 9.8         |
| Bromomethane                  | ND       | 9.8         |
| Ethyl tert-Butyl Ether (ETBE) | ND       | 4.9         |
| Chloroethane                  | ND       | 9.8         |
| Methyl tert-Amyl Ether (TAME) | ND       | 4.9         |
| Trichlorofluoromethane        | ND       | 4.9         |
| Ethanol                       | ND       | 980         |
| Acetone                       | ND       | 20          |
| Freon 113                     | ND       | 4.9         |
| 1,1-Dichloroethene            | ND       | 4.9         |
| Methylene Chloride            | ND       | 20          |
| Carbon Disulfide              | ND       | 4.9         |
| MTBE                          | ND       | 4.9         |
| trans-1,2-Dichloroethene      | ND       | 4.9         |
| Vinyl Acetate                 | ND       | 49          |
| 1,1-Dichloroethane            | ND       | 4.9         |
| 2-Butanone                    | ND       | 9.8         |
| cis-1,2-Dichloroethene        | ND       | 4.9         |
| 2,2-Dichloropropane           | ND       | 4.9         |
| Chloroform                    | ND       | 4.9         |
| Bromochloromethane            | ND       | 4.9         |
| 1,1,1-Trichloroethane         | ND       | 4.9         |
| 1,1-Dichloropropene           | ND       | 4.9         |
| Carbon Tetrachloride          | ND       | 4.9         |
| 1,2-Dichloroethane            | ND       | 4.9         |
| Benzene                       | ND       | 4.9         |
| Trichloroethene               | ND       | 4.9         |
| 1,2-Dichloropropane           | ND       | 4.9         |
| Bromodichloromethane          | ND       | 4.9         |
| Dibromomethane                | ND       | 4.9         |
| 4-Methyl-2-Pentanone          | ND       | 9.8         |
| cis-1,3-Dichloropropene       | ND       | 4.9         |
| Toluene                       | ND       | 4.9         |
| trans-1,3-Dichloropropene     | ND       | 4.9         |
| 1,1,2-Trichloroethane         | ND       | 4.9         |
| 2-Hexanone                    | ND       | 9.8         |
| 1,3-Dichloropropane           | ND       | 4.9         |
| Tetrachloroethene             | ND       | 4.9         |
| Dibromochloromethane          | ND       | 4.9         |
| 1,2-Dibromoethane             | ND       | 4.9         |
| Chlorobenzene                 | ND       | 4.9<br>4.9  |
| 1,1,1,2-Tetrachloroethane     | ND       |             |
| Ethylbenzene                  | ND       | 4.9<br>4.9  |
| m,p-Xylenes                   | ND       | 4.9         |
| o-Xylene                      | ND<br>ND | 4.9         |
| Styrene<br>  Bromoform        | ND<br>ND | 4.9         |
| Isopropylbenzene              | ND<br>ND | 4.9         |
| 1,1,2,2-Tetrachloroethane     | ND<br>ND | 4.9         |
| 1,2,3-Trichloropropane        | ND<br>ND | 4.9         |
| 1,2,3-111CIIIOLOPLOPAILE      | עווד     | <b>エ・</b> フ |



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #:                      | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client:                     | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#:                   | 5032               | 5                | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@7FT           |                  | Diln Fac: | 0.9785                      |  |
| Lab ID:                     | 251882-014         |                  | Batch#:   | 206484                      |  |
| Matrix:                     | Soil               |                  | Sampled:  | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Received: | 12/20/13                    |  |
| Basis:                      | as received        |                  | Analyzed: | 12/23/13                    |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 4.9 |  |
| Bromobenzene                | ND     | 4.9 |  |
| 1,3,5-Trimethylbenzene      | ND     | 4.9 |  |
| 2-Chlorotoluene             | ND     | 4.9 |  |
| 4-Chlorotoluene             | ND     | 4.9 |  |
| tert-Butylbenzene           | ND     | 4.9 |  |
| 1,2,4-Trimethylbenzene      | ND     | 4.9 |  |
| sec-Butylbenzene            | ND     | 4.9 |  |
| para-Isopropyl Toluene      | ND     | 4.9 |  |
| 1,3-Dichlorobenzene         | ND     | 4.9 |  |
| 1,4-Dichlorobenzene         | ND     | 4.9 |  |
| n-Butylbenzene              | ND     | 4.9 |  |
| 1,2-Dichlorobenzene         | ND     | 4.9 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 4.9 |  |
| 1,2,4-Trichlorobenzene      | ND     | 4.9 |  |
| Hexachlorobutadiene         | ND     | 4.9 |  |
| Naphthalene                 | ND     | 4.9 |  |
| 1,2,3-Trichlorobenzene      | ND     | 4.9 |  |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 89   | 76-128 |
| 1,2-Dichloroethane-d4 | 97   | 80-137 |
| Toluene-d8            | 89   | 80-120 |
| Bromofluorobenzene    | 104  | 79-128 |



| Button Qt Nepolt                      |                                      |             |      |                                   |   |  |
|---------------------------------------|--------------------------------------|-------------|------|-----------------------------------|---|--|
| Purgeable Organics by GC/MS           |                                      |             |      |                                   |   |  |
| Lab #:<br>Client:<br>Project#:        | 251882<br>SOMA Environmental<br>5032 | Engineering | Inc. | Location:<br>Prep:<br>Analysis:   | 6501 Shattuck Ave., Oakland<br>EPA 5030B<br>EPA 8260B |  |
| Type:<br>Lab ID:<br>Matrix:<br>Units: | BLANK<br>QC721816<br>Soil<br>ug/Kg   |             |      | Diln Fac:<br>Batch#:<br>Analyzed: | 1.000<br>206484<br>12/23/13                           |  |

| Analyte         Result         RL           Freon 12         ND         10           tert-Butyl Alcohol (TBA)         ND         100           Chloromethane         ND         10           Isopropyl Ether (DIPE)         ND         5.0 |  |
|--|--|
| tert-Butyl Alcohol (TBA) ND 100<br>Chloromethane ND 10   |  |
| Chloromethane ND 10  |  |
|  |  |
| 1 TOURTORY TICTICT (DIET) IND J.U  |  |
| Vinyl Chloride   ND 10   |  |
| Bromomethane ND 10   |  |
| Ethyl tert-Butyl Ether (ETBE) ND 5.0   |  |
| Chloroethane ND 10   |  |
| Methyl tert-Amyl Ether (TAME) ND 5.0   |  |
| Trichlorofluoromethane ND 5.0  |  |
| Ethanol ND 1,000   |  |
| Acetone ND 20  |  |
| Freon 113 ND 5.0   |  |
| 1,1-Dichloroethene ND 5.0  |  |
| Methylene Chloride ND 20   |  |
| Carbon Disulfide ND 5.0  |  |
| MTBE ND 5.0  |  |
| trans-1,2-Dichloroethene ND 5.0  |  |
| Vinyl Acetate ND 50  |  |
| 1,1-Dichloroethane ND 5.0  |  |
| 2-Butanone ND 10   |  |
| cis-1,2-Dichloroethene ND 5.0  |  |
| 2,2-Dichloropropane ND 5.0   |  |
| Chloroform ND 5.0  |  |
| Bromochloromethane ND 5.0  |  |
| 1,1,1-Trichloroethane ND 5.0   |  |
| 1,1-Dichloropropene ND 5.0   |  |
| Carbon Tetrachloride ND 5.0  |  |
| 1,2-Dichloroethane ND 5.0  |  |
| Benzene ND 5.0   |  |
| Trichloroethene ND 5.0   |  |
| 1,2-Dichloropropane ND 5.0   |  |
| Bromodichloromethane ND 5.0  |  |
| Dibromomethane ND 5.0  |  |
| 4-Methyl-2-Pentanone ND 10   |  |
| cis-1,3-Dichloropropene ND 5.0   |  |
| Toluene ND 5.0   |  |
| trans-1,3-Dichloropropene ND 5.0   |  |
| 1,1,2-Trichloroethane ND 5.0   |  |
| 2-Hexanone ND 10   |  |
| 1,3-Dichloropropane ND 5.0   |  |
| Tetrachloroethene ND 5.0   |  |
| Dibromochloromethane ND 5.0  |  |
| 1,2-Dibromoethane ND 5.0   |  |
| Chlorobenzene ND 5.0   |  |
| 1,1,1,2-Tetrachloroethane ND 5.0   |  |
| Ethylbenzene ND 5.0  |  |
| m,p-Xylenes ND 5.0   |  |
| o-Xylene ND 5.0  |  |
| Styrene ND 5.0   |  |
| Bromoform ND 5.0   |  |
| Isopropylbenzene ND 5.0  |  |
| 1,1,2,2-Tetrachloroethane ND 5.0   |  |
| 1,2,3-Trichloropropane ND 5.0  |  |

ND= Not Detected RL= Reporting Limit Page 1 of 2



| Purgeable Organics by GC/MS |                              |                 |                      |  |  |
|-----------------------------|------------------------------|-----------------|----------------------|--|--|
| Lab #:<br>Client:           | 251882<br>SOMA Environmental | Engineering Inc | Location:<br>. Prep: | 6501 Shattuck Ave., Oakland<br>EPA 5030B |  |
| Project#:                   | 5032                         |                 | Analysis:            | EPA 8260B                                |  |
| Type:<br>Lab ID:            | BLANK                        |                 | Diln Fac:            | 1.000                                    |  |
|                             | QC721816                     |                 | Batch#:              | 206484                                   |  |
| Matrix:                     | Soil                         |                 | Analyzed:            | 12/23/13                                 |  |
| Units:                      | ug/Kg                        |                 |                      |  |  |

| Analyte                     | Result | RL  |  |
|-----------------------------|--------|-----|--|
| Propylbenzene               | ND     | 5.0 |  |
| Bromobenzene                | ND     | 5.0 |  |
| 1,3,5-Trimethylbenzene      | ND     | 5.0 |  |
| 2-Chlorotoluene             | ND     | 5.0 |  |
| 4-Chlorotoluene             | ND     | 5.0 |  |
| tert-Butylbenzene           | ND     | 5.0 |  |
| 1,2,4-Trimethylbenzene      | ND     | 5.0 |  |
| sec-Butylbenzene            | ND     | 5.0 |  |
| para-Isopropyl Toluene      | ND     | 5.0 |  |
| 1,3-Dichlorobenzene         | ND     | 5.0 |  |
| 1,4-Dichlorobenzene         | ND     | 5.0 |  |
| n-Butylbenzene              | ND     | 5.0 |  |
| 1,2-Dichlorobenzene         | ND     | 5.0 |  |
| 1,2-Dibromo-3-Chloropropane | ND     | 5.0 |  |
| 1,2,4-Trichlorobenzene      | ND     | 5.0 |  |
| Hexachlorobutadiene         | ND     | 5.0 |  |
| Naphthalene                 | ND     | 5.0 |  |
| 1,2,3-Trichlorobenzene      | ND     | 5.0 |  |

| Surrogate             | %REC | Limits |  |
|-----------------------|------|--------|--|
| Dibromofluoromethane  | 96   | 76-128 |  |
| 1,2-Dichloroethane-d4 | 107  | 80-137 |  |
| Toluene-d8            | 92   | 80-120 |  |
| Bromofluorobenzene    | 88   | 79-128 |  |

ND= Not Detected RL= Reporting Limit Page 2 of 2



| Purgeable Organics by GC/MS |                    |                  |           |                             |  |
|-----------------------------|--------------------|------------------|-----------|-----------------------------|--|
| Lab #: 2                    | 251882             |                  | Location: | 6501 Shattuck Ave., Oakland |  |
| Client: S                   | SOMA Environmental | Engineering Inc. | Prep:     | EPA 5030B                   |  |
| Project#: 5                 | 5032               |                  | Analysis: | EPA 8260B                   |  |
| Field ID:                   | B-10@21FT          |                  | Batch#:   | 206484                      |  |
| MSS Lab ID                  | : 251882-013       |                  | Sampled:  | 12/20/13                    |  |
| Matrix:                     | Soil               |                  | Received: | 12/20/13                    |  |
| Units:                      | ug/Kg              |                  | Analyzed: | 12/23/13                    |  |
| Basis:                      | as received        |                  | -         |                             |  |

Type: Lab ID: MS QC721841 Diln Fac: 0.9671

| Analyte                       | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA)      | <17.22     | 241.8  | 260.6  | 108  | 38-134 |
| Isopropyl Ether (DIPE)        | <1.396     | 48.36  | 39.23  | 81   | 44-123 |
| Ethyl tert-Butyl Ether (ETBE) | <0.5546    | 48.36  | 44.15  | 91   | 47-122 |
| Methyl tert-Amyl Ether (TAME) | <0.5564    | 48.36  | 45.45  | 94   | 50-120 |
| 1,1-Dichloroethene            | <1.224     | 48.36  | 48.87  | 101  | 46-138 |
| Benzene                       | <0.6636    | 48.36  | 47.73  | 99   | 51-125 |
| Trichloroethene               | <0.7165    | 48.36  | 48.49  | 100  | 41-146 |
| Toluene                       | <0.4466    | 48.36  | 44.31  | 92   | 45-123 |
| Chlorobenzene                 | <0.3375    | 48.36  | 46.90  | 97   | 39-120 |

| Surrogate             | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane  | 89   | 76-128 |
| 1,2-Dichloroethane-d4 | 85   | 80-137 |
| Toluene-d8            | 93   | 80-120 |
| Bromofluorobenzene    | 94   | 79-128 |

MSD QC721842 Diln Fac: 0.9542

Type: Lab ID:

| Analyte                       | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA)      | 238.5  | 162.6  | 68   | 38-134 | 45  | 55  |
| Isopropyl Ether (DIPE)        | 47.71  | 34.21  | 72   | 44-123 | 12  | 45  |
| Ethyl tert-Butyl Ether (ETBE) | 47.71  | 38.45  | 81   | 47-122 | 12  | 46  |
| Methyl tert-Amyl Ether (TAME) | 47.71  | 37.92  | 79   | 50-120 | 17  | 45  |
| 1,1-Dichloroethene            | 47.71  | 50.48  | 106  | 46-138 | 5   | 51  |
| Benzene                       | 47.71  | 43.87  | 92   | 51-125 | 7   | 46  |
| Trichloroethene               | 47.71  | 46.35  | 97   | 41-146 | 3   | 55  |
| Toluene                       | 47.71  | 42.46  | 89   | 45-123 | 3   | 59  |
| Chlorobenzene                 | 47.71  | 42.86  | 90   | 39-120 | 8   | 54  |

| Surrogate             | %REC | Limits |  |
|-----------------------|------|--------|--|
| Dibromofluoromethane  | 91   | 76-128 |  |
| 1,2-Dichloroethane-d4 | 84   | 80-137 |  |
| Toluene-d8            | 89   | 80-120 |  |
| Bromofluorobenzene    | 92   | 79-128 |  |



|           |                    | Purgeable Org    | anics by GC/MS |                             |
|-----------|--------------------|------------------|----------------|-----------------------------|
| Lab #:    | 251882             |                  | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental | Engineering Inc. | Prep:          | EPA 5030B                   |
| Project#: | 5032               |                  | Analysis:      | EPA 8260B                   |
| Type:     | LCS                |                  | Diln Fac:      | 1.000                       |
| Lab ID:   | QC721872           |                  | Batch#:        | 206484                      |
| Matrix:   | Soil               |                  | Analyzed:      | 12/23/13                    |
| Units:    | ug/Kg              |                  |                |                             |

| Analyte                       | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA)      | 93.75  | 73.14  | 78   | 46-146 |
| Isopropyl Ether (DIPE)        | 18.75  | 13.44  | 72   | 61-126 |
| Ethyl tert-Butyl Ether (ETBE) | 18.75  | 16.09  | 86   | 66-123 |
| Methyl tert-Amyl Ether (TAME) | 18.75  | 17.34  | 92   | 69-120 |
| 1,1-Dichloroethene            | 18.75  | 21.09  | 112  | 68-135 |
| Benzene                       | 18.75  | 19.71  | 105  | 80-127 |
| Trichloroethene               | 18.75  | 18.36  | 98   | 77-129 |
| Toluene                       | 18.75  | 18.44  | 98   | 79-125 |
| Chlorobenzene                 | 18.75  | 20.08  | 107  | 78-120 |

| Surrogate             | %REC | Limits |  |
|-----------------------|------|--------|--|
| Dibromofluoromethane  | 93   | 76-128 |  |
| 1,2-Dichloroethane-d4 | 99   | 80-137 |  |
| Toluene-d8            | 92   | 80-120 |  |
| Bromofluorobenzene    | 88   | 79-128 |  |

Page 1 of 1



| Semivolatile Organics by GC/MS SIM |                                     |           |                             |  |  |  |
|------------------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|
| Lab #:                             | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client:                            | SOMA Environmental Engineering Inc. | Prep:     | EPA 3520C                   |  |  |  |
| Project#:                          | 5032                                | Analysis: | EPA 8270C-SIM               |  |  |  |
| Field ID:                          | B-10                                | Batch#:   | 206544                      |  |  |  |
| Lab ID:                            | 251882-015                          | Sampled:  | 12/20/13                    |  |  |  |
| Matrix:                            | Water                               | Received: | 12/20/13                    |  |  |  |
| Units:                             | ug/L                                | Prepared: | 12/26/13                    |  |  |  |
| Diln Fac:                          | 1.000                               | Analyzed: | 12/27/13                    |  |  |  |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 0.1 |  |
| Acenaphthylene         | ND     | 0.1 |  |
| Acenaphthene           | ND     | 0.1 |  |
| Fluorene               | ND     | 0.1 |  |
| Phenanthrene           | ND     | 0.1 |  |
| Anthracene             | ND     | 0.1 |  |
| Fluoranthene           | ND     | 0.1 |  |
| Pyrene                 | ND     | 0.1 |  |
| Benzo(a)anthracene     | ND     | 0.1 |  |
| Chrysene               | ND     | 0.1 |  |
| Benzo(b)fluoranthene   | ND     | 0.1 |  |
| Benzo(k)fluoranthene   | ND     | 0.1 |  |
| Benzo(a)pyrene         | ND     | 0.1 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 0.1 |  |
| Dibenz(a,h)anthracene  | ND     | 0.1 |  |
| Benzo(g,h,i)perylene   | ND     | 0.1 |  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 78   | 50-135 |
| 2-Fluorobiphenyl | 69   | 51-120 |
| Terphenyl-d14    | 71   | 34-127 |

ge 1 of 1



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3520C                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Type:     | BLANK                               | Diln Fac:      | 1.000                       |
| Lab ID:   | QC722059                            | Batch#:        | 206544                      |
| Matrix:   | Water                               | Prepared:      | 12/26/13                    |
| Units:    | ug/L                                | Analyzed:      | 12/27/13                    |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 0.1 |  |
| Acenaphthylene         | ND     | 0.1 |  |
| Acenaphthene           | ND     | 0.1 |  |
| Fluorene               | ND     | 0.1 |  |
| Phenanthrene           | ND     | 0.1 |  |
| Anthracene             | ND     | 0.1 |  |
| Fluoranthene           | ND     | 0.1 |  |
| Pyrene                 | ND     | 0.1 |  |
| Benzo(a)anthracene     | ND     | 0.1 |  |
| Chrysene               | ND     | 0.1 |  |
| Benzo(b)fluoranthene   | ND     | 0.1 |  |
| Benzo(k)fluoranthene   | ND     | 0.1 |  |
| Benzo(a)pyrene         | ND     | 0.1 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 0.1 |  |
| Dibenz(a,h)anthracene  | ND     | 0.1 |  |
| Benzo(g,h,i)perylene   | ND     | 0.1 |  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 69   | 50-135 |
| 2-Fluorobiphenyl | 65   | 51-120 |
| Terphenyl-d14    | 88   | 34-127 |

ND= Not Detected RL= Reporting Limit Page 1 of 1

Page 1 of 1



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3520C                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Type:     | LCS                                 | Diln Fac:      | 1.000                       |
| Lab ID:   | QC722060                            | Batch#:        | 206544                      |
| Matrix:   | Water                               | Prepared:      | 12/26/13                    |
| Units:    | ug/L                                | Analyzed:      | 12/30/13                    |

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Acenaphthene | 1.000  | 0.6814 | 68   | 62-120 |
| Pyrene       | 1.000  | 0.9467 | 95   | 51-121 |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 74   | 50-135 |  |
| 2-Fluorobiphenyl | 68   | 51-120 |  |
| Terphenyl-d14    | 105  | 34-127 |  |

Page 1 of 1 21.0



|               | Semivolatile C                  | organics by GC/M | S SIM                       |
|---------------|---------------------------------|------------------|-----------------------------|
| Lab #: 253    | 1882                            | Location:        | 6501 Shattuck Ave., Oakland |
| Client: SOM   | MA Environmental Engineering In | c. Prep:         | EPA 3520C                   |
| Project#: 503 | 32                              | Analysis:        | EPA 8270C-SIM               |
| Field ID:     | ZZZZZZZZZ                       | Batch#:          | 206544                      |
| MSS Lab ID:   | 251888-008                      | Sampled:         | 12/19/13                    |
| Matrix:       | Water                           | Received:        | 12/20/13                    |
| Units:        | ug/L                            | Prepared:        | 12/26/13                    |
| Diln Fac:     | 1.000                           | Analyzed:        | 12/27/13                    |

Type: MS Lab ID: QC722061

| Analyte      | MSS Result | Spiked | Result | %REC | Limits |
|--------------|------------|--------|--------|------|--------|
| Acenaphthene | <0.01923   | 1.020  | 0.6364 | 62   | 53-120 |
| Pyrene       | <0.02304   | 1.020  | 0.8012 | 79   | 50-125 |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 92   | 50-135 |
| 2-Fluorobiphenyl | 81   | 51-120 |
| Terphenyl-d14    | 105  | 34-127 |

Type: MSD Lab ID: QC722062

| Analyte      | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Acenaphthene | 1.000  | 0.6443 | 64   | 53-120 | 3   | 48  |
| Pyrene       | 1.000  | 0.8153 | 82   | 50-125 | 4   | 30  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 105  | 50-135 |
| 2-Fluorobiphenyl | 79   | 51-120 |
| Terphenyl-d14    | 108  | 34-127 |



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Field ID: | B-10@9FT                            | Batch#:        | 206525                      |
| Lab ID:   | 251882-002                          | Sampled:       | 12/20/13                    |
| Matrix:   | Soil                                | Received:      | 12/20/13                    |
| Units:    | ug/Kg                               | Prepared:      | 12/26/13                    |
| Basis:    | as received                         | Analyzed:      | 12/26/13                    |
| Diln Fac: | 1.000                               |                |                             |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 5.1 |  |
| Acenaphthylene         | ND     | 5.1 |  |
| Acenaphthene           | ND     | 5.1 |  |
| Fluorene               | ND     | 5.1 |  |
| Phenanthrene           | ND     | 5.1 |  |
| Anthracene             | ND     | 5.1 |  |
| Fluoranthene           | ND     | 5.1 |  |
| Pyrene                 | 6.5    | 5.1 |  |
| Benzo(a)anthracene     | ND     | 5.1 |  |
| Chrysene               | ND     | 5.1 |  |
| Benzo(b)fluoranthene   | ND     | 5.1 |  |
| Benzo(k)fluoranthene   | ND     | 5.1 |  |
| Benzo(a)pyrene         | ND     | 5.1 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 5.1 |  |
| Dibenz(a,h)anthracene  | ND     | 5.1 |  |
| Benzo(g,h,i)perylene   | ND     | 5.1 |  |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 49   | 46-120 |  |
| 2-Fluorobiphenyl | 56   | 52-120 |  |
| Terphenyl-d14    | 75   | 54-132 |  |

age 1 of 1 24.0



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Field ID: | B-10@10FT                           | Batch#:        | 206525                      |
| Lab ID:   | 251882-003                          | Sampled:       | 12/20/13                    |
| Matrix:   | Soil                                | Received:      | 12/20/13                    |
| Units:    | ug/Kg                               | Prepared:      | 12/26/13                    |
| Basis:    | as received                         | Analyzed:      | 12/27/13                    |
| Diln Fac: | 1.000                               |                |                             |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 5.0 |  |
| Acenaphthylene         | ND     | 5.0 |  |
| Acenaphthene           | ND     | 5.0 |  |
| Fluorene               | ND     | 5.0 |  |
| Phenanthrene           | ND     | 5.0 |  |
| Anthracene             | ND     | 5.0 |  |
| Fluoranthene           | ND     | 5.0 |  |
| Pyrene                 | 8.3    | 5.0 |  |
| Benzo(a)anthracene     | ND     | 5.0 |  |
| Chrysene               | ND     | 5.0 |  |
| Benzo(b)fluoranthene   | ND     | 5.0 |  |
| Benzo(k)fluoranthene   | ND     | 5.0 |  |
| Benzo(a)pyrene         | ND     | 5.0 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 5.0 |  |
| Dibenz(a,h)anthracene  | ND     | 5.0 |  |
| Benzo(g,h,i)perylene   | ND     | 5.0 |  |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 73   | 46-120 |  |
| 2-Fluorobiphenyl | 56   | 52-120 |  |
| Terphenyl-d14    | 127  | 54-132 |  |

Page 1 of 1



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Field ID: | B-10@15FT                           | Batch#:        | 206582                      |
| Lab ID:   | 251882-008                          | Sampled:       | 12/20/13                    |
| Matrix:   | Soil                                | Received:      | 12/20/13                    |
| Units:    | ug/Kg                               | Prepared:      | 12/27/13                    |
| Basis:    | as received                         | Analyzed:      | 12/31/13                    |
| Diln Fac: | 1.000                               |                |                             |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 5.0 |  |
| Acenaphthylene         | ND     | 5.0 |  |
| Acenaphthene           | ND     | 5.0 |  |
| Fluorene               | ND     | 5.0 |  |
| Phenanthrene           | ND     | 5.0 |  |
| Anthracene             | ND     | 5.0 |  |
| Fluoranthene           | ND     | 5.0 |  |
| Pyrene                 | ND     | 5.0 |  |
| Benzo(a)anthracene     | ND     | 5.0 |  |
| Chrysene               | ND     | 5.0 |  |
| Benzo(b)fluoranthene   | ND     | 5.0 |  |
| Benzo(k)fluoranthene   | ND     | 5.0 |  |
| Benzo(a)pyrene         | ND     | 5.0 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 5.0 |  |
| Dibenz(a,h)anthracene  | ND     | 5.0 |  |
| Benzo(g,h,i)perylene   | ND     | 5.0 |  |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 88   | 46-120 |  |
| 2-Fluorobiphenyl | 73   | 52-120 |  |
| Terphenyl-d14    | 95   | 54-132 |  |

age 1 of 1 26.0



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Field ID: | B-10@21FT                           | Batch#:        | 206582                      |
| Lab ID:   | 251882-013                          | Sampled:       | 12/20/13                    |
| Matrix:   | Soil                                | Received:      | 12/20/13                    |
| Units:    | ug/Kg                               | Prepared:      | 12/27/13                    |
| Basis:    | as received                         | Analyzed:      | 12/31/13                    |
| Diln Fac: | 1.000                               |                |                             |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 4.9 |  |
| Acenaphthylene         | ND     | 4.9 |  |
| Acenaphthene           | ND     | 4.9 |  |
| Fluorene               | ND     | 4.9 |  |
| Phenanthrene           | ND     | 4.9 |  |
| Anthracene             | ND     | 4.9 |  |
| Fluoranthene           | ND     | 4.9 |  |
| Pyrene                 | ND     | 4.9 |  |
| Benzo(a)anthracene     | ND     | 4.9 |  |
| Chrysene               | ND     | 4.9 |  |
| Benzo(b)fluoranthene   | ND     | 4.9 |  |
| Benzo(k)fluoranthene   | ND     | 4.9 |  |
| Benzo(a)pyrene         | ND     | 4.9 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 4.9 |  |
| Dibenz(a,h)anthracene  | ND     | 4.9 |  |
| Benzo(g,h,i)perylene   | ND     | 4.9 |  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 97   | 46-120 |
| 2-Fluorobiphenyl | 80   | 52-120 |
| Terphenyl-d14    | 99   | 54-132 |

ge 1 of 1 27.0



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Field ID: | B-10@7FT                            | Batch#:        | 206525                      |
| Lab ID:   | 251882-014                          | Sampled:       | 12/20/13                    |
| Matrix:   | Soil                                | Received:      | 12/20/13                    |
| Units:    | ug/Kg                               | Prepared:      | 12/26/13                    |
| Basis:    | as received                         | Analyzed:      | 12/27/13                    |
| Diln Fac: | 10.00                               |                |                             |

| Analyte                | Result | RL |  |
|------------------------|--------|----|--|
| Naphthalene            | ND     | 50 |  |
| Acenaphthylene         | ND     | 50 |  |
| Acenaphthene           | ND     | 50 |  |
| Fluorene               | ND     | 50 |  |
| Phenanthrene           | 61     | 50 |  |
| Anthracene             | ND     | 50 |  |
| Fluoranthene           | ND     | 50 |  |
| Pyrene                 | 93     | 50 |  |
| Benzo(a)anthracene     | ND     | 50 |  |
| Chrysene               | 76     | 50 |  |
| Benzo(b)fluoranthene   | ND     | 50 |  |
| Benzo(k)fluoranthene   | ND     | 50 |  |
| Benzo(a)pyrene         | ND     | 50 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 50 |  |
| Dibenz(a,h)anthracene  | ND     | 50 |  |
| Benzo(g,h,i)perylene   | ND     | 50 |  |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | DO   | 46-120 |  |
| 2-Fluorobiphenyl | DO   | 52-120 |  |
| Terphenyl-d14    | DO   | 54-132 |  |

DO= Diluted Out ND= Not Detected

RL= Reporting Limit

Page 1 of 1



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Type:     | BLANK                               | Diln Fac:      | 1.000                       |
| Lab ID:   | QC721996                            | Batch#:        | 206525                      |
| Matrix:   | Soil                                | Prepared:      | 12/26/13                    |
| Units:    | ug/Kg                               | Analyzed:      | 12/27/13                    |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 4.9 |  |
| Acenaphthylene         | ND     | 4.9 |  |
| Acenaphthene           | ND     | 4.9 |  |
| Fluorene               | ND     | 4.9 |  |
| Phenanthrene           | ND     | 4.9 |  |
| Anthracene             | ND     | 4.9 |  |
| Fluoranthene           | ND     | 4.9 |  |
| Pyrene                 | ND     | 4.9 |  |
| Benzo(a)anthracene     | ND     | 4.9 |  |
| Chrysene               | ND     | 4.9 |  |
| Benzo(b)fluoranthene   | ND     | 4.9 |  |
| Benzo(k)fluoranthene   | ND     | 4.9 |  |
| Benzo(a)pyrene         | ND     | 4.9 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 4.9 |  |
| Dibenz(a,h)anthracene  | ND     | 4.9 |  |
| Benzo(g,h,i)perylene   | ND     | 4.9 |  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 64   | 46-120 |
| 2-Fluorobiphenyl | 61   | 52-120 |
| Terphenyl-d14    | 90   | 54-132 |

ND= Not Detected RL= Reporting Limit

Page 1 of 1



|           | Semivolatile Org                    | anics by GC/MS | SIM                         |
|-----------|-------------------------------------|----------------|-----------------------------|
| Lab #:    | 251882                              | Location:      | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: | 5032                                | Analysis:      | EPA 8270C-SIM               |
| Type:     | LCS                                 | Diln Fac:      | 1.000                       |
| Lab ID:   | QC721997                            | Batch#:        | 206525                      |
| Matrix:   | Soil                                | Prepared:      | 12/26/13                    |
| Units:    | ug/Kg                               | Analyzed:      | 12/27/13                    |

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Acenaphthene | 33.56  | 21.60  | 64   | 43-120 |
| Pyrene       | 33.56  | 25.42  | 76   | 39-120 |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 78   | 46-120 |  |
| 2-Fluorobiphenyl | 71   | 52-120 |  |
| Terphenyl-d14    | 85   | 54-132 |  |

Page 1 of 1 30.0



| Semivolatile Org                            | anics by GC/MS | SIM                         |
|---|----------------|-----------------------------|
| Lab #: 251882                               | Location:      | 6501 Shattuck Ave., Oakland |
| Client: SOMA Environmental Engineering Inc. | Prep:          | EPA 3550B                   |
| Project#: 5032                              | Analysis:      | EPA 8270C-SIM               |
| Field ID: ZZZZZZZZZZ                        | Batch#:        | 206525                      |
| MSS Lab ID: 251888-010                      | Sampled:       | 12/20/13                    |
| Matrix: Soil                                | Received:      | 12/20/13                    |
| Units: ug/Kg                                | Prepared:      | 12/26/13                    |
| Basis: as received                          | Analyzed:      | 12/27/13                    |
| Diln Fac: 4.000                             |                |                             |

Type: MS Lab ID: QC721998

| Analyte      | MSS Result | Spiked | Result | %REC Limits   |
|--------------|------------|--------|--------|---------------|
| Acenaphthene | 5.381      | 33.06  | 25.26  | 60 47-120     |
| Pyrene       | 167.4      | 33.06  | 238.9  | 216 NM 21-143 |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 88   | 46-120 |  |
| 2-Fluorobiphenyl | 71   | 52-120 |  |
| Terphenyl-d14    | 92   | 54-132 |  |

Type: MSD Lab ID: QC721999

| Analyte      | Spiked | Result | %REC    | Limits RPD  | Lim  |
|--------------|--------|--------|---------|-------------|------|
| Acenaphthene | 33.76  | 22.65  | 51      | 47-120 13   | 54   |
| Pyrene       | 33.76  | 102.6  | -192 NN | 1 21-143 80 | * 67 |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 84   | 46-120 |
| 2-Fluorobiphenyl | 69   | 52-120 |
| Terphenyl-d14    | 88   | 54-132 |

<sup>\*=</sup> Value outside of QC limits; see narrative

NM= Not Meaningful: Sample concentration > 4% spike concentration

RPD= Relative Percent Difference



| Semivolatile Organics by GC/MS SIM |                                     |           |                             |  |  |  |  |
|------------------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|--|
| Lab #:                             | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |  |
| Client:                            | SOMA Environmental Engineering Inc. | Prep:     | EPA 3550B                   |  |  |  |  |
| Project#:                          | 5032                                | Analysis: | EPA 8270C-SIM               |  |  |  |  |
| Type:                              | BLANK                               | Diln Fac: | 1.000                       |  |  |  |  |
| Lab ID:                            | QC722215                            | Batch#:   | 206582                      |  |  |  |  |
| Matrix:                            | Soil                                | Prepared: | 12/27/13                    |  |  |  |  |
| Units:                             | ug/Kg                               | Analyzed: | 12/27/13                    |  |  |  |  |

| Analyte                | Result | RL  |  |
|------------------------|--------|-----|--|
| Naphthalene            | ND     | 5.1 |  |
| Acenaphthylene         | ND     | 5.1 |  |
| Acenaphthene           | ND     | 5.1 |  |
| Fluorene               | ND     | 5.1 |  |
| Phenanthrene           | ND     | 5.1 |  |
| Anthracene             | ND     | 5.1 |  |
| Fluoranthene           | ND     | 5.1 |  |
| Pyrene                 | ND     | 5.1 |  |
| Benzo(a)anthracene     | ND     | 5.1 |  |
| Chrysene               | ND     | 5.1 |  |
| Benzo(b)fluoranthene   | ND     | 5.1 |  |
| Benzo(k)fluoranthene   | ND     | 5.1 |  |
| Benzo(a)pyrene         | ND     | 5.1 |  |
| Indeno(1,2,3-cd)pyrene | ND     | 5.1 |  |
| Dibenz(a,h)anthracene  | ND     | 5.1 |  |
| Benzo(g,h,i)perylene   | ND     | 5.1 |  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 62   | 46-120 |
| 2-Fluorobiphenyl | 62   | 52-120 |
| Terphenyl-d14    | 80   | 54-132 |

ND= Not Detected RL= Reporting Limit

Page 1 of 1



| Semivolatile Organics by GC/MS SIM |                                     |           |                             |  |  |  |  |
|------------------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|--|
| Lab #:                             | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |  |
| Client:                            | SOMA Environmental Engineering Inc. | Prep:     | EPA 3550B                   |  |  |  |  |
| Project#:                          | 5032                                | Analysis: | EPA 8270C-SIM               |  |  |  |  |
| Type:                              | LCS                                 | Diln Fac: | 1.000                       |  |  |  |  |
| Lab ID:                            | QC722216                            | Batch#:   | 206582                      |  |  |  |  |
| Matrix:                            | Soil                                | Prepared: | 12/27/13                    |  |  |  |  |
| Units:                             | ug/Kg                               | Analyzed: | 12/27/13                    |  |  |  |  |

| Analyte      | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Acenaphthene | 33.18  | 19.74  | 59   | 43-120 |
| Pyrene       | 33.18  | 18.86  | 57   | 39-120 |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 72   | 46-120 |
| 2-Fluorobiphenyl | 62   | 52-120 |
| Terphenyl-d14    | 80   | 54-132 |

Page 1 of 1 33.0



| Semivolatile Organics by GC/MS SIM |                                     |           |                             |  |  |  |  |
|------------------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|--|
| Lab #:                             | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |  |
| Client:                            | SOMA Environmental Engineering Inc. | Prep:     | EPA 3550B                   |  |  |  |  |
| Project#:                          | 5032                                | Analysis: | EPA 8270C-SIM               |  |  |  |  |
| Field ID:                          | ZZZZZZZZZ                           | Batch#:   | 206582                      |  |  |  |  |
| MSS Lab II                         | 251929-006                          | Sampled:  | 12/23/13                    |  |  |  |  |
| Matrix:                            | Soil                                | Received: | 12/23/13                    |  |  |  |  |
| Units:                             | ug/Kg                               | Prepared: | 12/27/13                    |  |  |  |  |
| Basis:                             | as received                         | Analyzed: | 12/31/13                    |  |  |  |  |
| Diln Fac:                          | 2.000                               |           |                             |  |  |  |  |

Type: MS Lab ID: QC722217

| Analyte      | MSS Result | Spiked | Result | %REC | Limits |
|--------------|------------|--------|--------|------|--------|
| Acenaphthene | <2.016     | 33.80  | 23.76  | 70   | 47-120 |
| Pyrene       | 18.90      | 33.80  | 38.82  | 59   | 21-143 |

| Surrogate        | %REC | Limits |  |
|------------------|------|--------|--|
| Nitrobenzene-d5  | 103  | 46-120 |  |
| 2-Fluorobiphenyl | 75   | 52-120 |  |
| Terphenyl-d14    | 89   | 54-132 |  |

Type: MSD Lab ID: QC722218

| Analyte      | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Acenaphthene | 33.77  | 25.13  | 74   | 47-120 | 6   | 54  |
| Pyrene       | 33.77  | 42.59  | 70   | 21-143 | 9   | 67  |

| Surrogate        | %REC | Limits |
|------------------|------|--------|
| Nitrobenzene-d5  | 120  | 46-120 |
| 2-Fluorobiphenyl | 76   | 52-120 |
| Terphenyl-d14    | 104  | 54-132 |



California LUFT Metals Lab #: 251882 Location: 6501 Shattuck Ave., Oakland Client: SOMA Environmental Engineering Inc. EPA 3050B Prep: EPA 6010B Project#: 5032 Analysis: Units: mg/Kg 12/20/13 Sampled: Basis: 12/20/13 as received Received: 1.000 Diln Fac: Prepared: 12/27/13 Batch#: 206609 Analyzed: 12/31/13

Field ID: B-10@9FT Lab ID: 251882-002

Type: SAMPLE Matrix: Soil

| Analyte        | Result | RL   |  |
|----------------|--------|------|--|
| Cadmium        | 0.54   | 0.24 |  |
| Chromium       | 33     | 0.24 |  |
| Lead<br>Nickel | 5.6    | 0.24 |  |
| Nickel         | 36     | 0.24 |  |
| Zinc           | 48     | 0.97 |  |

Field ID: B-10@10FT Lab ID: 251882-003
Type: SAMPLE Matrix: Soil

RL Analyte Result Cadmium 0.95 0.26 0.26 Chromium 41 Lead 10 0.26 0.26 Nickel 62 Zinc 52 1.0

Field ID: B-10@15FT Lab ID: 251882-008
Type: SAMPLE Matrix: Soil

| Analyte        | Result | RL   |  |
|----------------|--------|------|--|
| Cadmium        | 0.67   | 0.27 |  |
| Chromium       | 44     | 0.27 |  |
| Lead<br>Nickel | 9.0    | 0.27 |  |
| Nickel         | 68     | 0.27 |  |
| Zinc           | 52     | 1.1  |  |

b= See narrative

ND= Not Detected

RL= Reporting Limit

Page 1 of 2



California LUFT Metals Lab #: 251882 Location: 6501 Shattuck Ave., Oakland Client: SOMA Environmental Engineering Inc. EPA 3050B Prep: EPA 6010B Project#: 5032 Analysis: Units: mg/Kg 12/20/13 Sampled: as received Basis: Received: 12/20/13 1.000 Diln Fac: Prepared: 12/27/13 Batch#: 206609 Analyzed: 12/31/13

Field ID: B-10@21FT Lab ID: 251882-013
Type: SAMPLE Matrix: Soil

Result RL Analyte Cadmium 0.24 0.48 30 Chromium 0.24 Lead 7.9 0.24 Nickel 37 0.24 Zinc 47 0.97

Field ID: B-10@7FT Lab ID: 251882-014

Type: SAMPLE Matrix: Soil

| Analyte        | Result | RL   |  |
|----------------|--------|------|--|
| Cadmium        | 0.55   | 0.26 |  |
| Chromium       | 31     | 0.26 |  |
| Lead<br>Nickel | 7.5    | 0.26 |  |
| Nickel         | 36     | 0.26 |  |
| Zinc           | 54     | 1.1  |  |

Type: BLANK Matrix: Miscell.

Lab ID: QC722310

| Analyte        | Result | RL   |  |
|----------------|--------|------|--|
| Cadmium        | ND     | 0.25 |  |
| Chromium       | ND     | 0.25 |  |
| Lead<br>Nickel | ND     | 0.25 |  |
| Nickel         | ND     | 0.25 |  |
| Zinc           | 1.4 b  | 1.0  |  |

b= See narrative

ND= Not Detected

RL= Reporting Limit

Page 2 of 2



|           | California                          | LUFT Metals |                             |
|-----------|-------------------------------------|-------------|-----------------------------|
| Lab #:    | 251882                              | Location:   | 6501 Shattuck Ave., Oakland |
| Client:   | SOMA Environmental Engineering Inc. | Prep:       | EPA 3050B                   |
| Project#: | 5032                                | Analysis:   | EPA 6010B                   |
| Matrix:   | Miscell.                            | Batch#:     | 206609                      |
| Units:    | mg/Kg                               | Prepared:   | 12/27/13                    |
| Diln Fac: | 1.000                               | Analyzed:   | 12/31/13                    |

Type: BS Lab ID: QC722311

| Analyte  | Spiked | Result | %REC | Limits |
|----------|--------|--------|------|--------|
| Cadmium  | 10.00  | 10.73  | 107  | 80-120 |
| Chromium | 100.0  | 104.3  | 104  | 80-120 |
| Lead     | 100.0  | 103.0  | 103  | 80-120 |
| Nickel   | 25.00  | 26.38  | 106  | 80-120 |
| Zinc     | 25.00  | 26.82  | 107  | 80-120 |

Type: BSD Lab ID: QC722312

| Analyte  | Spiked | Result | %REC | Limits | RPD | Lim |
|----------|--------|--------|------|--------|-----|-----|
| Cadmium  | 10.00  | 10.41  | 104  | 80-120 | 3   | 20  |
| Chromium | 100.0  | 101.8  | 102  | 80-120 | 2   | 20  |
| Lead     | 100.0  | 100.0  | 100  | 80-120 | 3   | 20  |
| Nickel   | 25.00  | 25.67  | 103  | 80-120 | 3   | 20  |
| Zinc     | 25.00  | 25.62  | 102  | 80-120 | 5   | 20  |



| California LUFT Metals                      |           |                             |  |  |  |
|---|-----------|-----------------------------|--|--|--|
| Lab #: 251882                               | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client: SOMA Environmental Engineering Inc. | Prep:     | EPA 3050B                   |  |  |  |
| Project#: 5032                              | Analysis: | EPA 6010B                   |  |  |  |
| Field ID: ZZZZZZZZZZ                        | Batch#:   | 206609                      |  |  |  |
| MSS Lab ID: 251888-010                      | Sampled:  | 12/20/13                    |  |  |  |
| Matrix: Soil                                | Received: | 12/20/13                    |  |  |  |
| Units: mg/Kg                                | Prepared: | 12/27/13                    |  |  |  |
| Basis: as received                          | Analyzed: | 12/31/13                    |  |  |  |
| Diln Fac: 1.000                             |           |                             |  |  |  |

Type: MS Lab ID: QC722313

| Analyte  | MSS Result | Spiked | Result    | %REC     | Limits   |
|----------|------------|--------|-----------|----------|----------|
| Cadmium  | 9.926      | 10.64  | 19.68     | 92       | 72-120   |
| Chromium | 75.77      | 106.4  | 187.8     | 105      | 61-120   |
| Lead     | 3,525      | 106.4  | 3,638 >LR | 106 NM   | 52-122   |
| Nickel   | 189.2      | 26.60  | 308.6     | 449 NM   | 46-135   |
| Zinc     | 5,368      | 26.60  | 4,078 >LR | -4850 NN | M 39-141 |

Type: MSD Lab ID: QC722314

| Analyte  | Spiked | Result    | %REC    | Limits | RPD  | Lim |
|----------|--------|-----------|---------|--------|------|-----|
| Cadmium  | 9.174  | 20.01     | 110     | 72-120 | 9    | 22  |
| Chromium | 91.74  | 154.2     | 85      | 61-120 | 11   | 31  |
| Lead     | 91.74  | 3,726 >LR | 218 NM  | 52-122 | NC   | 49  |
| Nickel   | 22.94  | 190.4     | 5 NM    | 46-135 | 46 * | 37  |
| Zinc     | 22.94  | 5,612 >LR | 1067 NM | 39-141 | NC   | 37  |

Page 1 of 1 37.0

<sup>\*=</sup> Value outside of QC limits; see narrative

NC= Not Calculated

NM= Not Meaningful: Sample concentration > 4X spike concentration

<sup>&</sup>gt;LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference



|           | Dissolved California LUFT Metals    |           |                             |  |  |  |
|-----------|-------------------------------------|-----------|-----------------------------|--|--|--|
| Lab #:    | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client:   | SOMA Environmental Engineering Inc. | Prep:     | METHOD                      |  |  |  |
| Project#: | 5032                                | Analysis: | EPA 6010B                   |  |  |  |
| Field ID: | B-10                                | Sampled:  | 12/20/13                    |  |  |  |
| Matrix:   | Filtrate                            | Received: | 12/20/13                    |  |  |  |
| Units:    | ug/L                                | Prepared: | 12/27/13                    |  |  |  |
| Diln Fac: | 1.000                               | Analyzed: | 01/03/14                    |  |  |  |
| Batch#:   | 206618                              |           |                             |  |  |  |

Type: SAMPLE Lab ID: 251882-015

| Analyte        | Result | RL  |  |
|----------------|--------|-----|--|
| Cadmium        | ND     | 5.0 |  |
| Chromium       | ND     | 5.0 |  |
| Lead<br>Nickel | 6.1    | 5.0 |  |
| Nickel         | 5.9    | 5.0 |  |
| Zinc           | 21     | 20  |  |

Type: BLANK Lab ID: QC722344

| Analyte        | Result | RL  |  |
|----------------|--------|-----|--|
| Cadmium        | ND     | 5.0 |  |
| Chromium       | ND     | 5.0 |  |
| Lead<br>Nickel | ND     | 5.0 |  |
| Nickel         | ND     | 5.0 |  |
| Zinc           | ND     | 20  |  |

ND= Not Detected RL= Reporting Limit

Page 1 of 1 38.2



| Dissolved California LUFT Metals |                                     |           |                             |  |  |  |
|----------------------------------|-------------------------------------|-----------|-----------------------------|--|--|--|
| Lab #:                           | 251882                              | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client:                          | SOMA Environmental Engineering Inc. | Prep:     | METHOD                      |  |  |  |
| Project#:                        | 5032                                | Analysis: | EPA 6010B                   |  |  |  |
| Matrix:                          | Filtrate                            | Batch#:   | 206618                      |  |  |  |
| Units:                           | ug/L                                | Prepared: | 12/27/13                    |  |  |  |
| Diln Fac:                        | 1.000                               | Analyzed: | 01/03/14                    |  |  |  |

Type: BS Lab ID: QC722345

| Analyte  | Spiked | Result | %REC | Limits |
|----------|--------|--------|------|--------|
| Cadmium  | 50.00  | 53.35  | 107  | 80-120 |
| Chromium | 200.0  | 200.0  | 100  | 80-120 |
| Lead     | 100.0  | 105.2  | 105  | 80-120 |
| Nickel   | 500.0  | 501.0  | 100  | 80-120 |
| Zinc     | 500.0  | 519.1  | 104  | 80-120 |

Type: BSD Lab ID: QC722346

| Analyte  | Spiked | Result | %REC | Limits | RPD | Lim |
|----------|--------|--------|------|--------|-----|-----|
| Cadmium  | 50.00  | 54.44  | 109  | 80-120 | 2   | 20  |
| Chromium | 200.0  | 201.6  | 101  | 80-120 | 1   | 20  |
| Lead     | 100.0  | 105.4  | 105  | 80-120 | 0   | 20  |
| Nickel   | 500.0  | 508.5  | 102  | 80-120 | 1   | 20  |
| Zinc     | 500.0  | 524.9  | 105  | 80-120 | 1   | 20  |



| Dissolved California LUFT Metals |                               |           |                             |  |  |  |
|----------------------------------|-------------------------------|-----------|-----------------------------|--|--|--|
| Lab #: 251882                    |                               | Location: | 6501 Shattuck Ave., Oakland |  |  |  |
| Client: SOMA E                   | nvironmental Engineering Inc. | Prep:     | METHOD                      |  |  |  |
| Project#: 5032                   |                               | Analysis: | EPA 6010B                   |  |  |  |
| Field ID:                        | B-10                          | Batch#:   | 206618                      |  |  |  |
| MSS Lab ID:                      | 251882-015                    | Sampled:  | 12/20/13                    |  |  |  |
| Matrix:                          | Filtrate                      | Received: | 12/20/13                    |  |  |  |
| Units:                           | ug/L                          | Prepared: | 12/27/13                    |  |  |  |
| Diln Fac:                        | 1.000                         |           |                             |  |  |  |

Type: MS Lab ID: QC722347

| Analyte  | MSS Result | Spiked | Result | %REC | Limits | Analyzed |
|----------|------------|--------|--------|------|--------|----------|
| Cadmium  | <0.2578    | 50.00  | 50.05  | 100  | 76-122 | 01/03/14 |
| Chromium | 3.112      | 200.0  | 185.0  | 91   | 76-120 | 01/03/14 |
| Lead     | 6.117      | 100.0  | 100.1  | 94   | 71-120 | 01/06/14 |
| Nickel   | 5.948      | 500.0  | 452.6  | 89   | 73-120 | 01/03/14 |
| Zinc     | 21.41      | 500.0  | 496.4  | 95   | 74-123 | 01/03/14 |

Type: MSD Lab ID: QC722348

| Analyte  | Spiked | Result | %REC | Limits | RPD | Lim | Analyzed |
|----------|--------|--------|------|--------|-----|-----|----------|
| Cadmium  | 50.00  | 50.45  | 101  | 76-122 | 1   | 20  | 01/03/14 |
| Chromium | 200.0  | 185.6  | 91   | 76-120 | 0   | 20  | 01/03/14 |
| Lead     | 100.0  | 102.0  | 96   | 71-120 | 2   | 20  | 01/06/14 |
| Nickel   | 500.0  | 457.5  | 90   | 73-120 | 1   | 20  | 01/03/14 |
| Zinc     | 500.0  | 498.5  | 95   | 74-123 | 0   | 20  | 01/03/14 |