

RECEIVED

By Alameda County Environmental Health at 2:22 pm, Feb 07, 2014



ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive, Suite A • Pleasanton, CA 94588
TEL (925)734-6400 • FAX (925)734-6401
www.somaenv.com

January 31, 2014

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

Subject: Freedom Food and Gas (Formerly Freedom ARCO Mini-Mart)
Site Address: 15101 Freedom Avenue, San Leandro, California
STID 4473/RO0000473

Dear Mr. Detterman:

SOMA's "Fourth Quarter 2013 Groundwater Monitoring and Remediation Progress Report" for the subject property 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,

A handwritten signature in blue ink, appearing to read "Mansour Sepehr".

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

cc: Mr. Mohammad Pazdel w/report enclosure



**Fourth Quarter 2013
Groundwater Monitoring and
Remediation Progress Report**

**Freedom Food and Gas
15101 Freedom Avenue
San Leandro, California**

January 31, 2014

Project 2551/2553

Prepared for

**Mr. Mohammad Pazdel
1770 Pistacia Court
Fairfield, California**



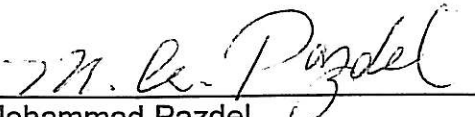
ENVIRONMENTAL ENGINEERING, INC.

6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

PERJURY STATEMENT

Site Location: 15101 Freedom Avenue, San Leandro, California

"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".


Mohammad Pazdel
1770 Pistacia Court
Fairfield, California 94533
Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California, to comply with Alameda County Health Care Services requirements for the Fourth Quarter 2013 groundwater monitoring event.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist

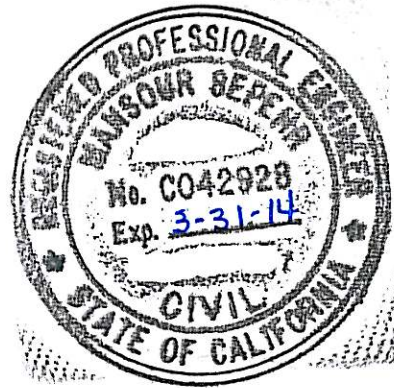


TABLE OF CONTENTS

| | |
|----------------------------------------------------|-----|
| CERTIFICATION | i |
| TABLE OF CONTENTS..... | ii |
| LIST OF FIGURES | iii |
| LIST OF TABLES..... | iii |
| LIST OF APPENDICES | iv |
| 1. INTRODUCTION | 1 |
| 1.1 Field Activities..... | 1 |
| 1.2 Laboratory Analysis | 2 |
| 2. RESULTS | 2 |
| 2.1 Field Measurements, First WBZ Wells..... | 2 |
| 2.2 Laboratory Analysis, First WBZ Wells..... | 3 |
| 2.3 Field Measurements, Second WBZ Wells | 4 |
| 2.4 Laboratory Analysis for Second WBZ Wells | 5 |
| 3. OPERATION OF TREATMENT SYSTEM | 6 |
| 4. MULTI-PHASE EXTRACTION EVENTS | 6 |
| 4.1 Smear Zone Dewatering..... | 7 |
| 4.2 Soil Vapor Sampling and Analysis..... | 7 |
| 4.3 Extraction Summary | 8 |
| 4.4 Evaluation of Mass Removal Rate..... | 8 |
| 5. CONCLUSIONS AND RECOMMENDATIONS..... | 8 |
| 6. REPORT LIMITATIONS | 9 |

LIST OF FIGURES

- Figure 1: Site vicinity map
- Figure 2: Site map showing locations of groundwater monitoring wells, soil borings, and extraction wells
- Figure 3: Groundwater Elevation Contour Map in Feet, First WBZ, December 5, 2013
- Figure 4: Contour Map of TPH-g Concentrations in Groundwater, First WBZ, December 5 and 6, 2013
- Figure 5: Contour Map of Benzene Concentrations in Groundwater, First WBZ, December 5 and 6, 2013
- Figure 6: Contour Map of MtBE Concentrations in Groundwater, First WBZ, December 5 and 6, 2013
- Figure 7: Contour Map of TBA and map of ETBE, TAME, and 1,2-DCA Concentrations in Groundwater, First WBZ, December 5 and 6, 2013
- Figure 8: Groundwater Elevation Contour Map in Feet, Second WBZ, December 5, 2013
- Figure 9: Map Showing Concentrations of MtBE in Groundwater, Second WBZ, December 5 and 6, 2013
- Figure 10: Schematic diagram of Groundwater Remediation System
- Figure 11: Cumulative mass of VOCs removed

LIST OF TABLES

- Table 1: Historical Groundwater Elevation Data and Analytical Results
- Table 2: Historical Gasoline Oxygenates Results
- Table 3: Effluent Chemical Analytical Results and Operational History of Remediation System
- Table 4: Cumulative Masses of Petroleum Hydrocarbons Removed from the Groundwater Since Installation of the Treatment System
- Table 5: MPE Event Operational Data: October-November 2013
- Table 6: MPE Event Extraction Data and VOC Mass Removal Rate October-November 2013
- Table 7: SVE Abatement System Emissions

LIST OF APPENDICES

- Appendix A: Standard Operating Procedures for Conducting Groundwater Monitoring Activities
- Appendix B: Table of Elevations and Coordinates on Monitoring Wells, Field Measurements of Physical, Chemical, and Natural Attenuation Parameters of Groundwater Samples, and Groundwater Gradient Calculations
- Appendix C: Laboratory Reports and Chain of Custody Forms for the Fourth Quarter 2013 Monitoring Event
- Appendix D: Laboratory Reports and Chain of Custody Forms for the Treatment System
- Appendix E: MPE Event Field Data Sheets
- Appendix F: Laboratory Report and Chain of Custody Form for the MPE Event

1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of the responsible party, Mr. Mohammad Pazdel, for property located at 15101 Freedom Avenue, San Leandro, California. The site is located in an area of primarily residential properties and adjacent commercial areas (Figure 1). The property was formerly owned by Mr. Mohammad Pazdel. In late 2009, the property was sold to DDH, LLC, Assignee and in early 2010 it was sold to Mr. Mohammad Mashhoon. Under the new management, the site is currently operational with the business name “Freedom Food and Gas” (formerly “Freedom Arco Mini-Mart”).

This report summarizes results of the Fourth Quarter 2013 groundwater monitoring event conducted on December 5 and 6, 2013. It includes physical and chemical properties measured in the field and laboratory analysis results for each groundwater sample. It also presents the remediation progress report for Fourth Quarter 2013, which includes operation of a groundwater extraction and treatment system. During this reporting period, a month-long multi-phase extraction (MPE) event was conducted from October 15 through November 15, 2013.

1.1 Field Activities

In December 2013, SOMA’s field crew conducted a groundwater monitoring event in accordance with procedures and guidelines of Alameda County Health Care Services (ACHCS) and the California Regional Water Quality Control Board (CRWQCB). Figure 2 shows well locations.

On December 5, 2013, 2013, the following wells were measured for depth to groundwater: five on-site monitoring wells (MW-1 to MW-5) and two off-site wells (MW-6 and MW-7) in the First water-bearing zone (WBZ); two extraction wells (EX-1 and EX-2), two MPE wells (MPE-1 and MPE-2), and three on-site monitoring wells (MW-1D, MW-3D, and MW-4D) in the Second WBZ. On December 5 and 6, 2013, additional field measurements and groundwater samples were collected from all monitoring and MPE wells, except MPE-2 which was not sampled due to the presence of Free-Product (FP). Grab groundwater samples were also collected from extraction wells EX-1 and EX-2. Properties measured include pH, temperature, and electrical conductivity (EC).

A natural attenuation study was conducted during this event to determine whether petroleum hydrocarbons in groundwater are biodegrading. Dissolved oxygen (DO) and oxidation reduction potential (ORP) measurements were taken for all monitoring and MPE wells.

1.2 Laboratory Analysis

Curtis & Tompkins Laboratories, a California state-certified laboratory, analyzed groundwater samples for the following: total petroleum hydrocarbons as gasoline (TPH-g); benzene, toluene, ethylbenzene, total xylenes (collectively termed BTEX); methyl tertiary-butyl ether (MtBE); and gasoline oxygenates, ethanol and lead scavengers. Samples were prepared using EPA Method 5030B and analyzed using EPA Method 8260B.

2. RESULTS

Following are results of field measurements and laboratory analysis for the Fourth Quarter 2013 groundwater monitoring event.

2.1 Field Measurements, First WBZ Wells

Table 1 presents calculated groundwater elevations and depths to groundwater for each monitoring well. Depths to groundwater ranged from 16.21 feet in MW-7 to 24.16 feet in MW-1. In MPE-2, 0.12 feet of FP was observed during this monitoring event. Appendix A includes the procedure for FP measurement.

Corresponding groundwater elevations ranged from 27.07 feet in MW-6 to 30.30 feet in MW-1. Groundwater elevations at extraction wells EX-1 and EX-2 were 24.83 feet and 22.68 feet, respectively. Groundwater elevation in MPE-2 was corrected for the presence of FP (Table 1).

Figure 3 displays the contour map of groundwater elevations. As illustrated, groundwater flows towards extraction wells, at a gradient of 0.031 feet/feet. Since the previous monitoring event (Third Quarter 2013) the gradient has remained unchanged. Groundwater gradient calculations are attached in Appendix B.

Upon equalization with the surrounding aquifer at each well location, when the purge cycle was terminated, DO in the First WBZ ranged from 0.60 mg/L in MW-5 to 2.76 mg/L in MW-7. ORP showed negative redox potentials in all tested wells except MW-7. Negative redox potentials indicate that contaminants in groundwater are conducive to anaerobic biodegradation. ORP showed positive redox potential in MW-7. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes the removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface during the release of the transfer of electrons.

Field measurements taken during this monitoring event are included in Appendix B (Table A).

2.2 Laboratory Analysis, First WBZ Wells

Appendix C includes the laboratory report and chain-of-custody form for this monitoring event.

Table 1 presents TPH-g, BTEX, and MtBE analysis results for the current and historical groundwater monitoring events.

TPH-g was detected in concentrations ranging from 290 µg/L in MW-2 to 27,000 µg/L in MPE-1. As mentioned above (Section 1.1), MPE-2 was not sampled due to the presence of FP in this well. Since the previous monitoring event (Third Quarter 2013), TPH-g increased in MW-2, MW-4, MW-7, and EX-1 and decreased in MW-1, MW-3, MW-5, EX-2, and MPE-1. The decrease was significant in MPE-1.

It is to be noted that no comparison could be made for MPE-2 due to the presence of FP during current event and for MW-6 due to presence of FP during previous event.

Figure 4 displays the contour map of TPH-g concentrations in groundwater. As illustrated, the highest TPH-g impact is in the southern portion of the site and in the vicinity of the dispenser islands around MPE-1.

The following BTEX concentrations were observed:

- Benzene was below laboratory-reporting limits in MW-7. Detectable benzene concentrations ranged from 1.4 µg/L in MW-2 to 3,300 µg/L in MW-4.
- Toluene was below laboratory-reporting limits in MW-1, MW-2, MW-4, and MW-7. Detectable toluene concentrations ranged from 2.1 µg/L in MW-5 to 330 µg/L in MW-6.
- Ethylbenzene was detected in concentrations ranging from 1.1 µg/L in MW-2 to 1,700 µg/L in MW-3.
- Total xylenes were below laboratory-reporting limits in MW-2. Detectable concentrations ranged from 3.10 µg/L in MW-7 to 5,000 µg/L in MPE-1.

Figure 5 displays the contour map of benzene in groundwater. The highest benzene impact is in the southern portion of the site and in the vicinity of the dispenser islands around MW-4. Since the previous monitoring event (Third Quarter 2013), benzene has increased in MW-2, MW-4, and EX-1, and decreased in MW-1, MW-3, MW-5, EX-2, and MPE-1.

MtBE was below the laboratory-reporting limit in MW-1, MW-2, and MW-3. Detectable MtBE ranged from 2.5 µg/L in MW-5 to 110 µg/L in MPE-1. Figure 6 displays the contour map of MtBE concentrations in groundwater. The highest MtBE impact is in the southern portion of the site and in the vicinity of the

dispenser islands around MPE-1. Since the previous monitoring event (Third Quarter 2013), MtBE has increased in MW-7, EX-1, and EX-2, and decreased in MW-4, MW-5, and MPE-1.

As shown in Table 1, TPH-g, benzene, toluene, ethylbenzene, and total xylenes all decreased in more impacted well MPE-1 since the previous monitoring event (Third Quarter 2013) while no comparison could be made for MPE-2 due to the presence of FP.

Table 2 shows analysis results for gasoline oxygenate and lead scavenger concentrations for the current as well as historical events.

The following gasoline oxygenate and lead scavenger concentrations were observed:

- In MW-1, MW-2, and MW-3 all gasoline oxygenates and lead scavengers were below laboratory-reporting limits.
- Tertiary-butyl alcohol (TBA) was below laboratory-reporting limits in MW-5 and MW-7 along with the wells listed above. Detectable TBA concentrations ranged from 30 µg/L in EX-2 to 1,500 µg/L in MW-4 and MPE-1. Figure 7 shows the contour map of TBA concentrations in First WBZ wells. Since the previous monitoring event (Third Quarter 2013), TBA increased in MW-4, EX-2, and MPE-1, decreased in MW-5 and EX-1, and remained below laboratory-reporting limit in MW-1, MW-2, MW-3, and MW-7.
- Methyl tertiary-amyl ether (TAME) was detected in MW-5 at 3.9 µg/L, MW-7 at 0.73 µg/L, EX-1 at 5.5 µg/L, MPE-1 at 30 µg/L, and was below the laboratory-reporting limit in remaining wells. Figure 7 displays the map of TAME concentrations in First WBZ wells.
- Ethyl tertiary-butyl ether (ETBE) was detected in EX-1 at 1.7 µg/L, and was below laboratory-reporting limits in remaining wells. Figure 7 displays the map of ETBE concentrations in First WBZ wells.
- 1,2-dichloroethane (1,2-DCA) was detected in EX-2 at 1.2 µg/L, and was below laboratory-reporting limits in remaining wells. Figure 7 displays the map of ETBE concentrations in First WBZ wells.
- Isopropyl ether (DIPE), 1,2-dibromoethane (EDB), and ethanol were below laboratory-reporting limits in all groundwater samples. Analysis results for ethanol are shown in Appendix C.

2.3 Field Measurements, Second WBZ Wells

Table 1 presents calculated groundwater elevations and depths to groundwater for each Second WBZ monitoring well. Depths to groundwater ranged from 23.43

feet in MW-4D to 24.31 feet in MW-1D. Corresponding groundwater elevations ranged from 29.69 feet in MW-4D to 30.13 feet in MW-3D.

Figure 8 displays the contour map of groundwater elevations in the Second WBZ. Groundwater flows from southwesterly at a gradient of 0.004 feet/feet. The groundwater gradient and the flow direction have remained unchanged since the previous monitoring event (Third Quarter 2013). Groundwater gradient calculations are attached in Appendix B.

Upon equalization with the surrounding aquifer at each well location, when the purge cycle was terminated, DO in the Second WBZ ranged from 0.74 mg/L in MW-3D to 1.34 mg/L in MW-4D. ORP showed positive redox potentials in all second WBZ wells. Positive redox potentials are more energetically favorable in utilizing electron acceptors during chemical reactions. This promotes the removal of organic mass from the contaminated groundwater by indigenous bacteria in the subsurface during the release of the transfer of electrons.

Field measurements taken during this monitoring event are included in Appendix B.

2.4 Laboratory Analysis for Second WBZ Wells

Appendix C includes the laboratory report and chain-of-custody form for this monitoring event.

Table 1 presents TPH-g, BTEX, and MtBE analysis results for the current and historical groundwater monitoring events.

TPH-g and BTEX concentrations were below laboratory-reporting limits in second WBZ wells except for total xylenes detected in MW-1D and MW-3D at 1.3 µg/L and 0.53 µg/L, respectively. Since the previous monitoring event (Third Quarter 2013) total xylenes have increased in MW-1D and MW-3D.

MtBE was below the laboratory-reporting limit in MW-1D and was detected in MW-3D and MW-4D at 1.6 µg/L and 3.4 µg/L, respectively. Since the previous monitoring event (Third Quarter 2013), MtBE has decreased in MW-3D and MW-4D. Figure 9 shows the map of MtBE concentrations in Second WBZ.

Table 2 shows analysis results for gasoline oxygenate and lead scavenger concentrations for the current as well as historical events.

All gasoline oxygenate, lead scavenger, and ethanol concentrations were below laboratory-reporting limits in Second WBZ wells.

3. OPERATION OF TREATMENT SYSTEM

SOMA installed a groundwater treatment system at the site in December 2009. The system includes two extraction wells (EX-1 and EX-2), trenching containing influent and effluent lines and electrical conduits, and the treatment system compound. During system operation, extracted groundwater is pumped from extraction wells through underground piping to a fenced treatment compound, adjacent to the existing service station building.

In the treatment compound, groundwater is treated using granular activated carbon (GAC) and subsequently discharged to the sanitary sewer. Two GAC vessels are connected in series. The first unit (1,000 gallons) serves as the primary treatment unit, and the second (55 gallons) provides an additional safety buffer prior to discharge. Effectiveness of the GAC units is monitored by collection and analysis of samples from the system discharge, including a sample collected from water that has passed only through the first GAC unit. When analytical results indicate that the first GAC unit is no longer effectively treating groundwater, the vessel will be removed from the treatment line and refurbished with new carbon. Since the system began discharging, approximately 2,835,117 gallons of groundwater have been treated and discharged at the site (as of December 26, 2013).

The treatment system operates under discharge permit issued by Oro Loma Sanitary District (OLSD) in May 2009. This discharge permit was most recently renewed in May 2012. Treated groundwater has been discharging to the OLSD sewer since December 9, 2009. Figure 10 shows the schematic diagram of the groundwater treatment system. Treatment system effluent is sampled monthly to comply with OLSD discharge permit requirements. Table 3 includes analytical results and operational history of the treatment system. As shown in Table 4, as of October 28, 2013, cumulative masses of TPH-g and BTEX extracted from groundwater were approximately 34.41 pounds, 1.33 pounds, 0.35 pounds, 0.86 pounds, and 4.65 pounds, respectively. Appendix D includes laboratory analytical results.

4. MULTI-PHASE EXTRACTION EVENTS

During Fourth Quarter 2013, SOMA performed an MPE event from October 15, 2013 through November 15, 2013 utilizing MPE-1, MPE-2 and MW-6.

The MPE operation was performed using a self-contained mobile treatment system (MTS), equipped with an electrical generator, propane tank, liquid ring vacuum pump rated at 25-horsepower and 428-standard cubic feet per minute (scfm), electrical submersible pumps, air/water separator vessel, discharge hoses and traffic-rated hose ramps, downhole stingers, and a thermal oxidizer for vapor abatement. The oxidizer operates under a valid various locations

BAAQMD permit. Both soil vapor and groundwater were extracted from the subsurface. Extracted groundwater was discharged into an existing treatment system.

Physical and chemical parameters including applied vacuum, soil vapor extraction flow rates, oxidizer temperature, volume of groundwater extracted, VOC concentrations, and depth to groundwater in observation wells, were monitored, measured and recorded. VOC concentrations in the extracted soil vapor stream were continuously monitored using a photoionization detector (PID) calibrated to hexane. MPE operational data is presented in Table 5. Extraction data is presented in Table 6. Field data sheets are presented in Appendix E.

4.1 Smear Zone Dewatering

Steady-state dewatering of the smear zone at wells MPE-1, MPE-2, and MW-6 was achieved and maintained during the MPE event by vacuum. Dewatering was achieved by opening the dilution control valve at the extraction well to allow atmospheric air into the well casing, accelerating the removal of water from the well casing by vacuum. As the stinger was advanced into the well casing, water was removed by vacuum. As water was removed, vacuum was reestablished in the well casing and the stinger was advanced farther into the well casing. When the stinger reached the base of the well casing, and water ceased to be removed by vacuum, the stinger was elevated off the bottom of the well to maintain a steady-state groundwater flow into the well and to maximize mass removal rate out of the well, and then the dilution control valve was closed. During this event a total of 207,635 gallons of groundwater was extracted, treated and discharged into the sanitary sewer system. The estimated groundwater extraction rate for the MPE event based on gallons extracted and elapsed time (Table 5) was 4.77 gpm.

4.2 Soil Vapor Sampling and Analysis

Representative samples were analyzed from the stack of the thermal oxidizer to show compliance with the Bay Area Air Quality Management District permit. Influent soil vapor samples were collected through a sampling port located on the vacuum pump discharge manifold. Thermal oxidizer stack vapor samples were collected through a sampling port located at the top of the stack. The air samples were submitted under chain-of-custody documentation to Curtis and Tompkins Laboratories and analyzed for TPH-g using USEPA Analytical Method TO-3; and for BTEX and MtBE using USEPA Analytical Method TO-15. Soil vapor analytical results and abatement efficiencies are presented in Table 7. Certified laboratory analytical reports and chain-of-custody documentation are included in Appendix F.

Soil vapor samples (one influent and one effluent) were collected on October 16, 2013. These samples were collected during the first 24 hours of operation (Table

7). The effluent vapor sample collected at the oxidizer stack was used to demonstrate compliance with BAAQMD various locations permit.

4.3 Extraction Summary

The MPE event ran from 11:30 on October 15, 2013 to 14:00 on November 15, 2013. The total extraction time was 43,560 minutes or 726 hours.

Applied vacuum ranged from 17 to 20 inches of mercury, and vapor extraction flow rate ranged from 149 to 196 scfm (Tables 5 and 6). VOC concentrations in the extracted soil vapor stream ranged from 281 parts per million vapor (ppmv) as hexane to 1,091 ppmv (Table 6).

4.4 Evaluation of Mass Removal Rate

The total number of the MPE operational days was 30.25 days. The estimated mass of volatile organic compounds (VOCs) removed from soil vapor extraction and VOC mass removal rate was 790 lbs at 26 lbs/day (Table 6).

The overall estimated total mass of VOCs extracted by previous MPE events is 2,737 pounds. Figure 11 shows the extracted mass of VOCs during different MPE events at the site.

5. CONCLUSIONS AND RECOMMENDATIONS

Fourth Quarter 2013 groundwater monitoring and previous MPE events results are summarized below.

- Groundwater flows towards extraction wells in the First WBZ and southwesterly in the Second WBZ.
- The highest hydrocarbon concentrations were observed in the southern portion of the site and in the vicinity of the dispenser islands around MPE extraction well MPE-1 and MW-4. High TPH-g concentration were also observed in MW-3 and FP was observed in extraction well MPE-2.
- Since the previous quarterly monitoring event (Third Quarter 2013), TPH-g, benzene, toluene, ethylbenzene, and total xylenes all decreased in more impacted well MPE-1 while no comparison could be made for MPE-2 due to the presence of FP.
- In the Second WBZ, all TPH-g and BTEX concentrations were below laboratory-reporting limits except total xylenes which were detected in MW-1D and MW-3D at low levels. MtBE was below laboratory-reporting limit in MW-1D and at low levels in other wells. Since the previous monitoring event (Third Quarter 2013), total xylenes increased in MW-1D and MW-3D, and MtBE decreased in MW-3D and MW-4D.

- The total mass of hydrocarbon removed by MPE operations (as of November 2013) is estimated to be 2,737 pounds.

Based on results of this monitoring event and previous MPE events, SOMA recommends the following action items:

- Continue quarterly groundwater monitoring to increase understanding of seasonal variations in groundwater quality conditions.
- Due to increased effectiveness of MPE operation during October-November 2013 event and the presence of FP in MPE-2, SOMA proposes additional MPE operation for mitigating the chemical source areas around MPE-1 and MPE-2.

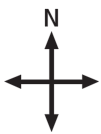
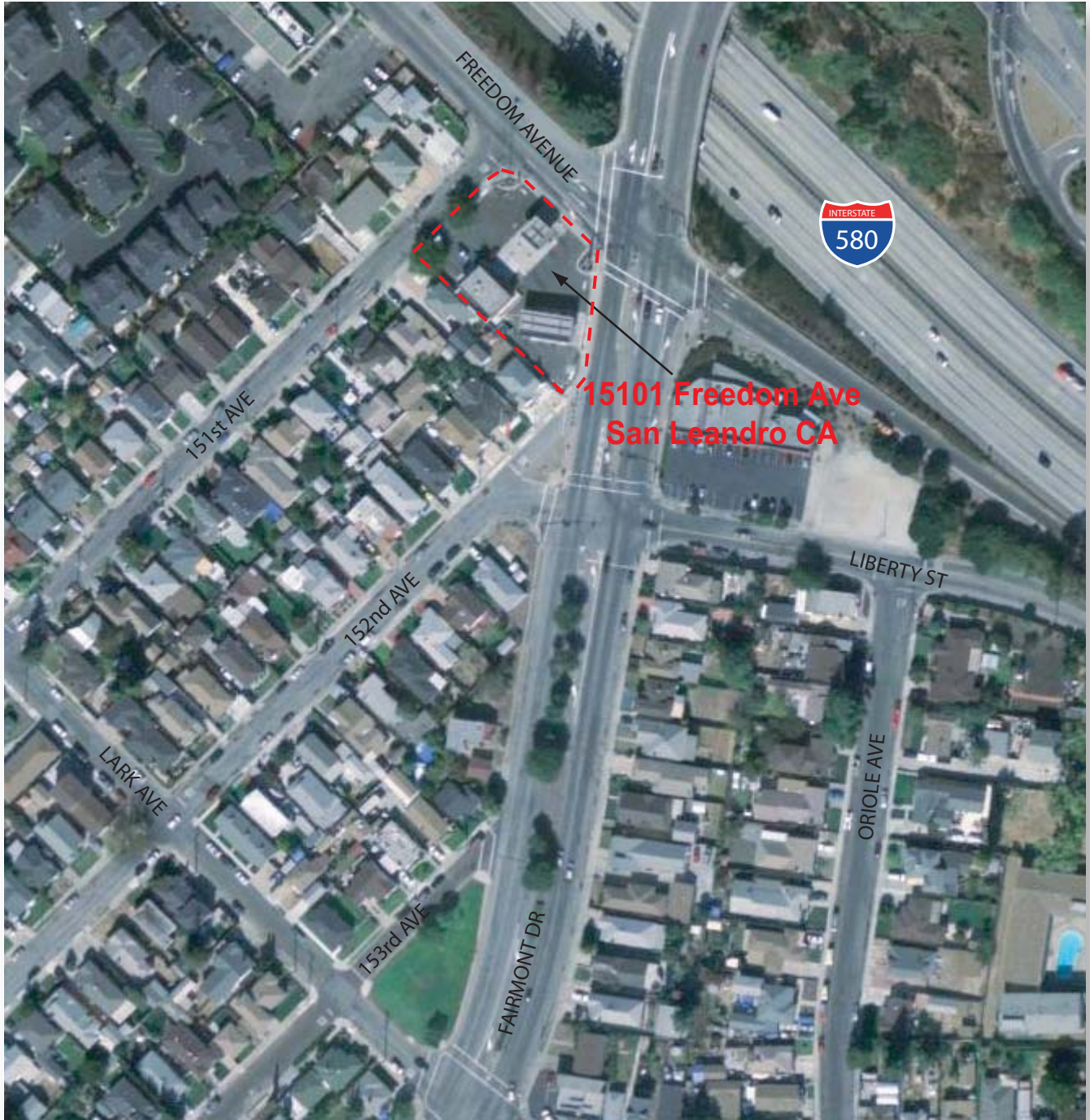
Other ongoing activities: Based on ACHCS' approval dated October 30, 2013 SOMA has recently completed field activities as proposed in our workplan dated July 22, 2013 and addendum dated October 17, 2013. A report documenting results will be submitted shortly.

6. REPORT LIMITATIONS

This report is the summary of work done by SOMA, including observations and descriptions of site conditions. It includes analysis results produced by Curtis & Tompkins Laboratories for the current groundwater monitoring event. Quantities and locations of wells were selected to provide the required information, but may not be representative of entire site conditions. All conclusions and recommendations are based on laboratory analysis results. Conclusions beyond those specifically stated in this document should not be inferred from this report.

SOMA warrants that services were provided in accordance with generally accepted practices in the environmental engineering and consulting field at the time of this sampling.

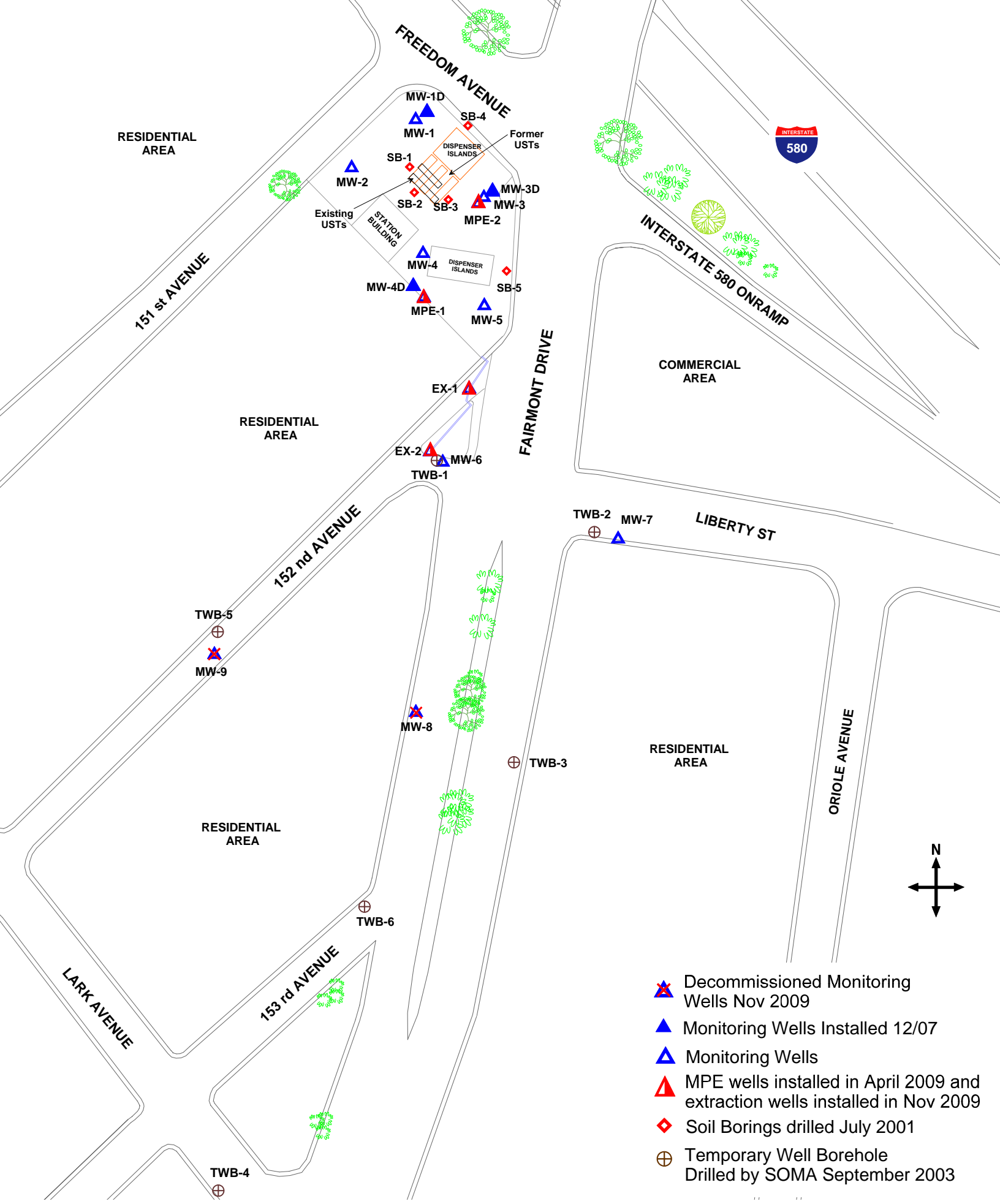
Figures









approximate scale in feet



Figure 1: Site vicinity map.



-  Decommissioned Monitoring Wells Nov 2009
-  Monitoring Wells Installed 12/07
-  Monitoring Wells
-  MPE wells installed in April 2009 and extraction wells installed in Nov 2009
-  Soil Borings drilled July 2001
-  Temporary Well Borehole Drilled by SOMA September 2003

approximate scale in feet
 0 50 100

Figure 2: Site map showing locations of groundwater monitoring wells, soil borings, and extraction wells.



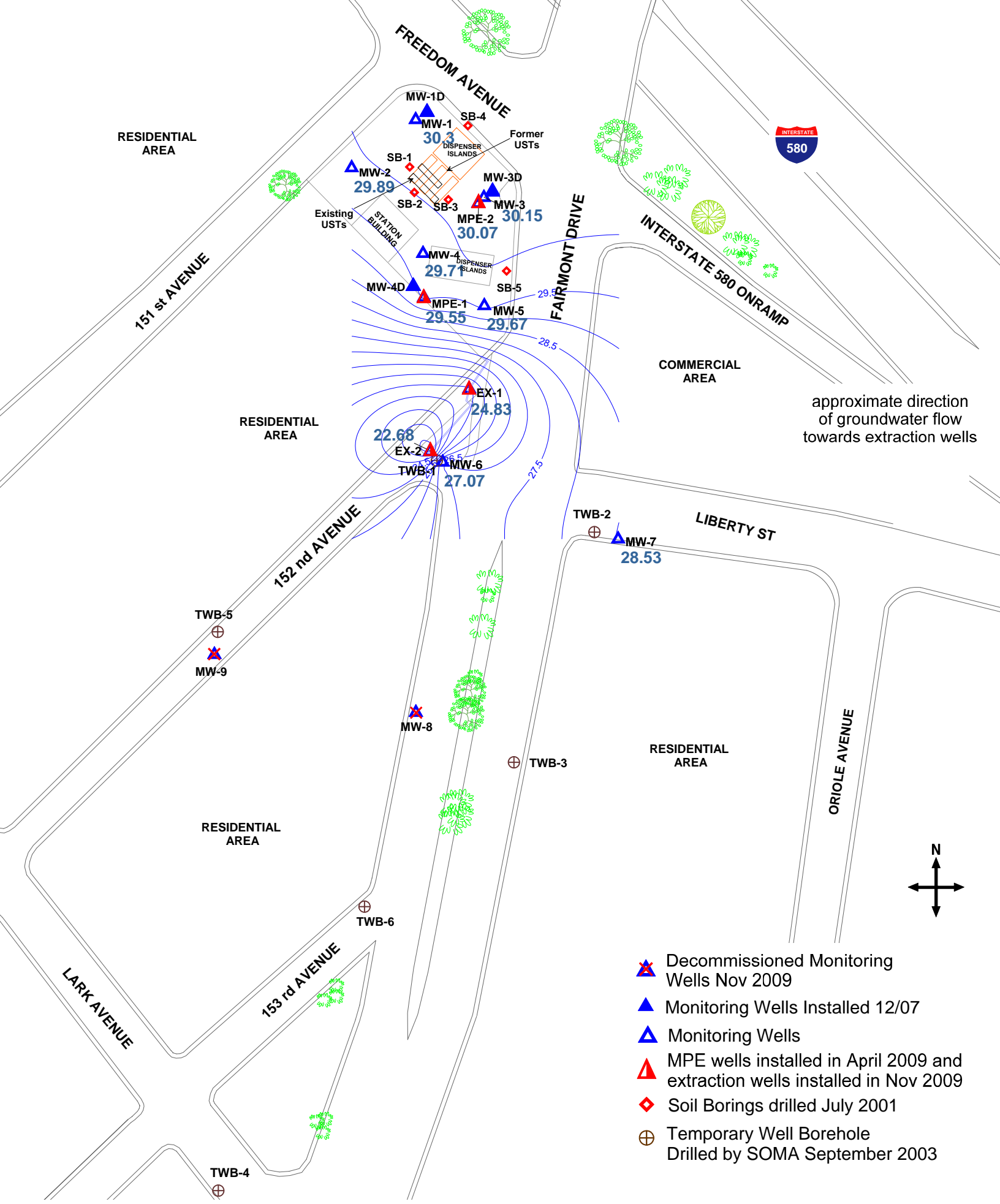
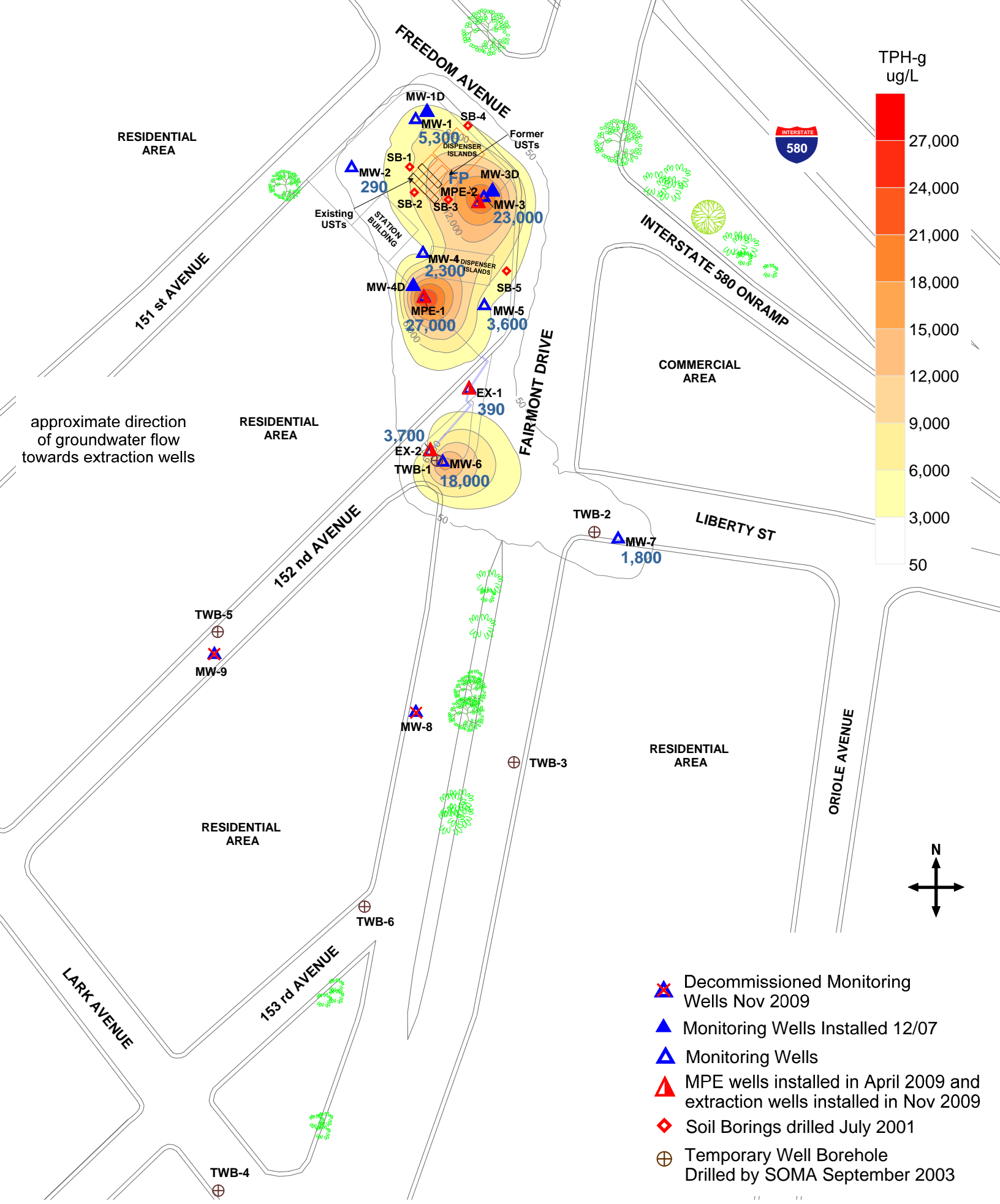


Figure 3: Groundwater Elevation Contour Map in Feet, First WBZ, December 5, 2013

- Decommissioned Monitoring Wells Nov 2009
- Monitoring Wells Installed 12/07
- Monitoring Wells
- MPE wells installed in April 2009 and extraction wells installed in Nov 2009
- Soil Borings drilled July 2001
- Temporary Well Borehole Drilled by SOMA September 2003



approximate scale in feet

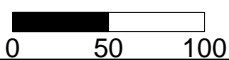
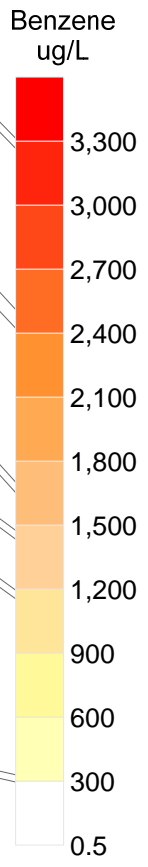
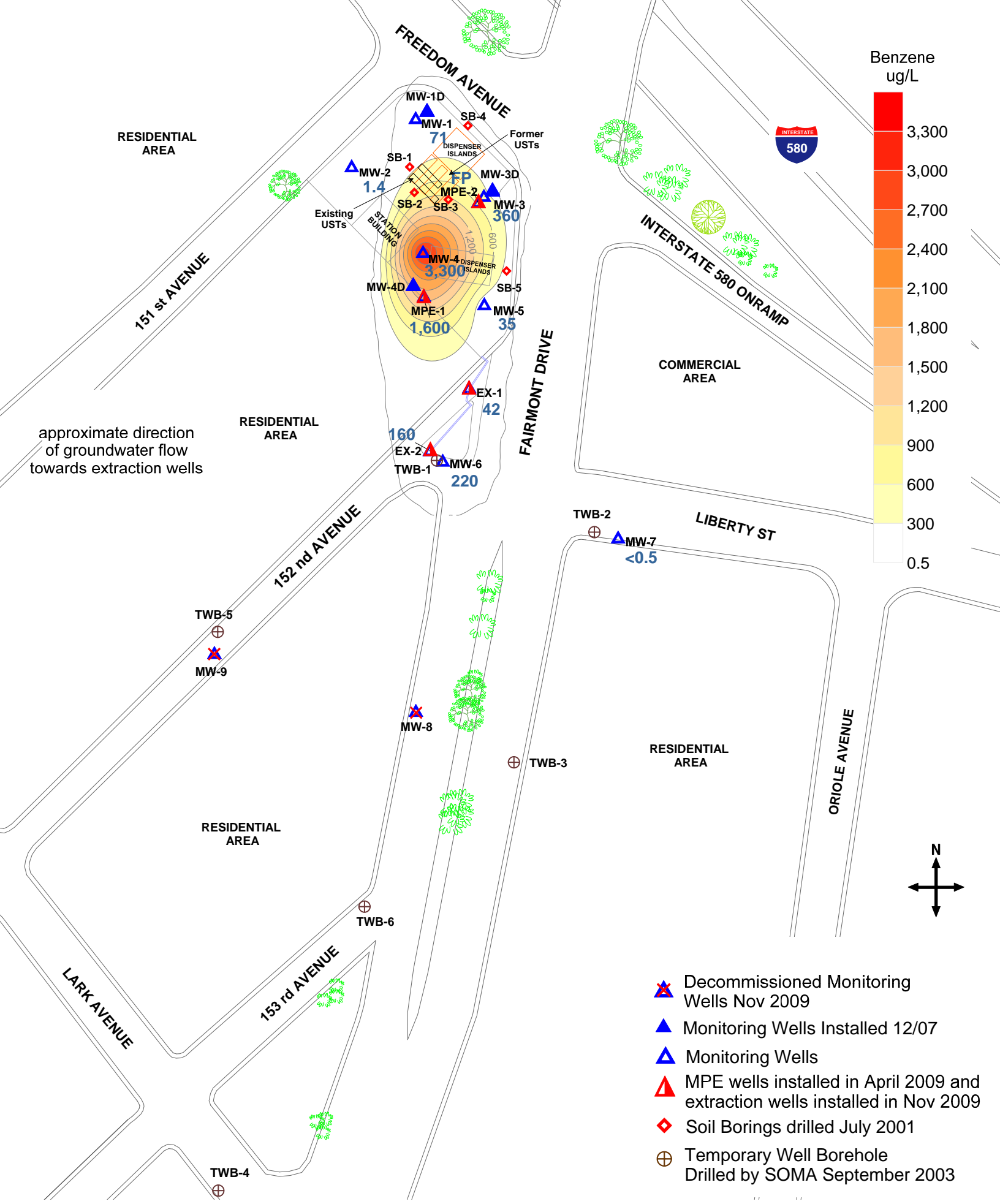


Figure 4: Contour Map of TPH-g Concentrations in Groundwater, First WBZ, December 5 and 6, 2013









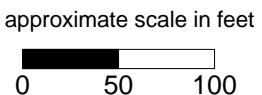
-  Decommissioned Monitoring Wells Nov 2009
-  Monitoring Wells Installed 12/07
-  Monitoring Wells
-  MPE wells installed in April 2009 and extraction wells installed in Nov 2009
-  Soil Borings drilled July 2001
-  Temporary Well Borehole Drilled by SOMA September 2003

Figure 5: Contour Map of Benzene Concentrations in Groundwater, First WBZ, December 5 and 6, 2013



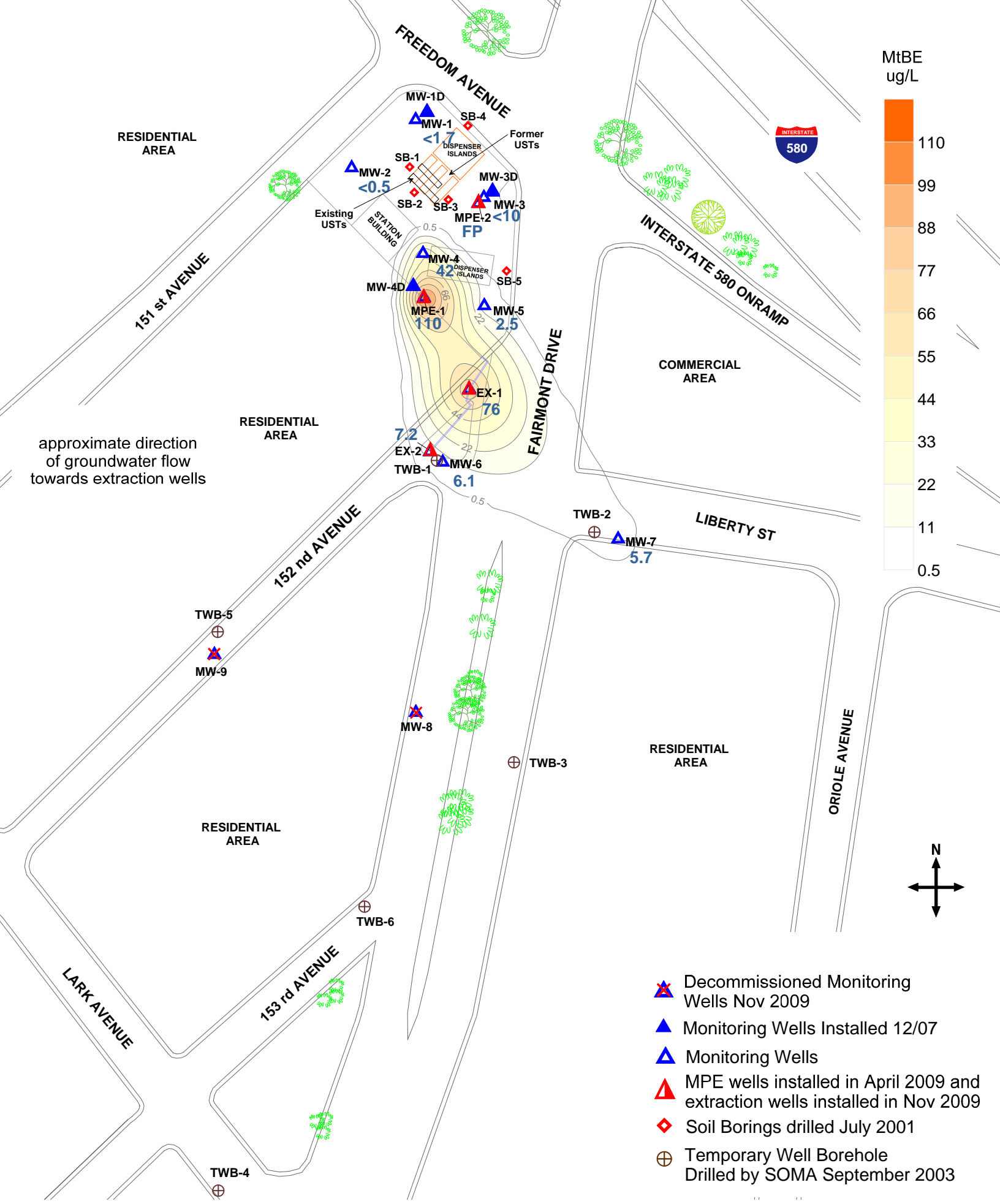


Figure 6: Contour Map of MtBE Concentrations in Groundwater, First WBZ, December 5 and 6, 2013

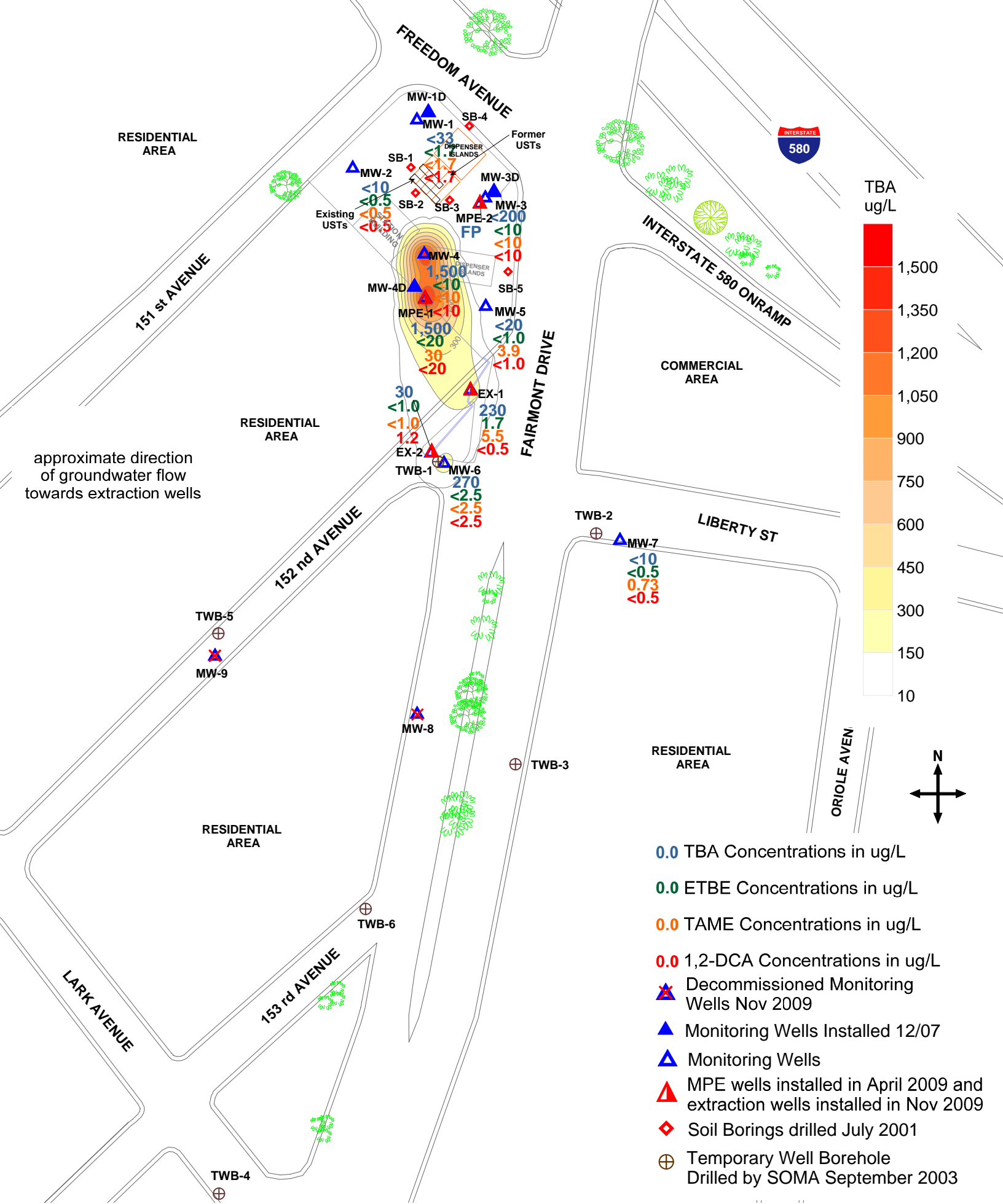
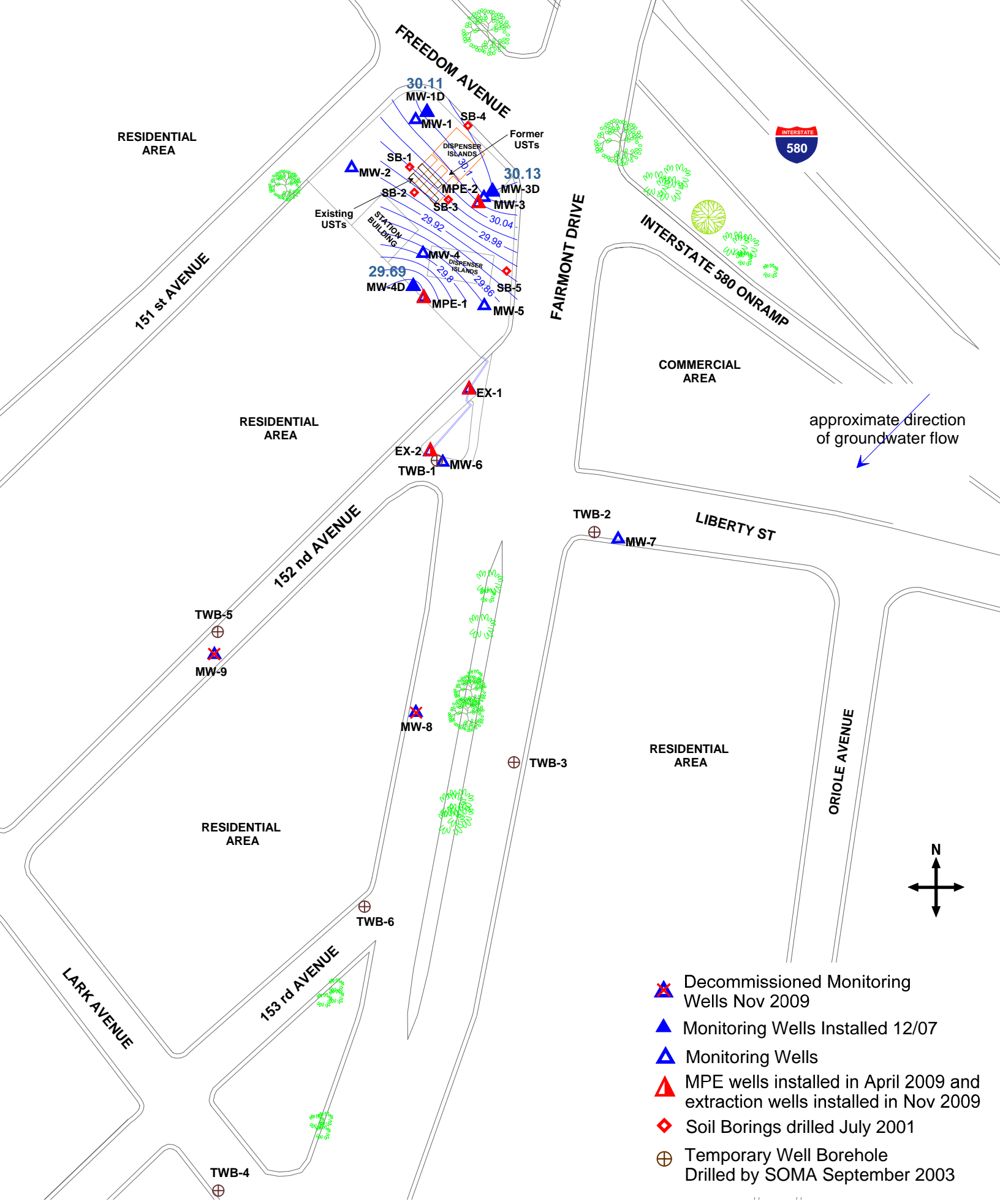


Figure 7: Contour Map of TBA and map of ETBE, TAME, and 1,2-DCA Concentrations in Groundwater, First WBZ, December 5 and 6, 2013





RESIDENTIAL AREA

151 st AVENUE

FREEDOM AVENUE



FAIRMONT DRIVE

INTERSTATE 580 ONRAMP

COMMERCIAL AREA

approximate direction of groundwater flow

RESIDENTIAL AREA

152 nd AVENUE

LIBERTY ST

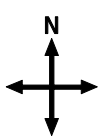
TWB-5
MW-9

MW-8

TWB-3

RESIDENTIAL AREA

ORIOLE AVENUE



RESIDENTIAL AREA

TWB-6

- Decommissioned Monitoring Wells Nov 2009
- Monitoring Wells Installed 12/07
- Monitoring Wells
- MPE wells installed in April 2009 and extraction wells installed in Nov 2009
- Soil Borings drilled July 2001
- Temporary Well Borehole Drilled by SOMA September 2003

approximate scale in feet

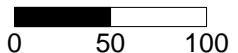
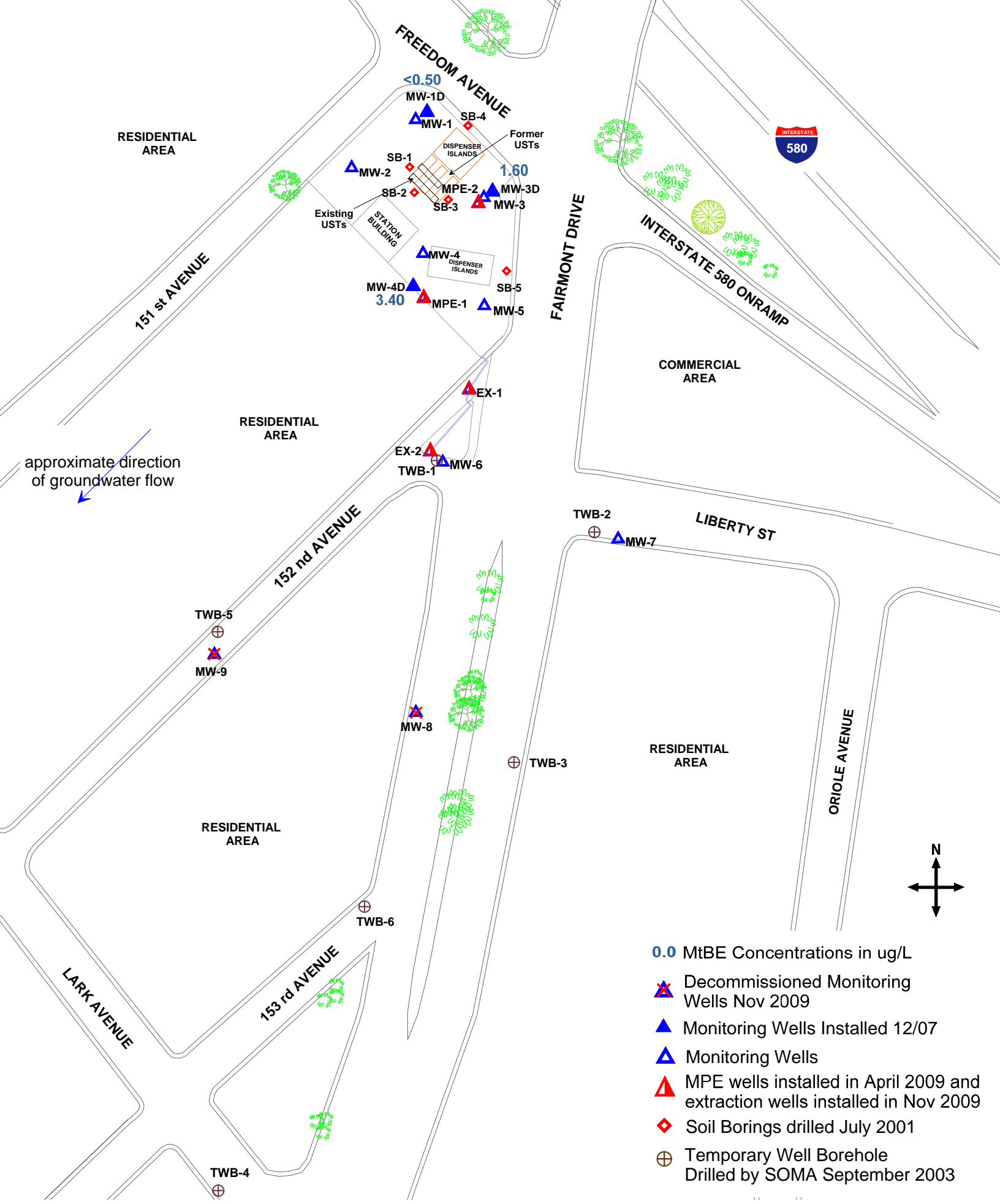


Figure 8: Groundwater Elevation Contour Map in Feet, Second WBZ, December 5, 2013





approximate direction of groundwater flow

- 0.0 MtBE Concentrations in ug/L
- Decommissioned Monitoring Wells Nov 2009
 - Monitoring Wells Installed 12/07
 - Monitoring Wells
 - MPE wells installed in April 2009 and extraction wells installed in Nov 2009
 - Soil Borings drilled July 2001
 - Temporary Well Borehole Drilled by SOMA September 2003

approximate scale in feet

0 50 100

Figure 9: Map Showing Concentrations of MtBE in Groundwater, Second WBZ, December 5 and 6 2013



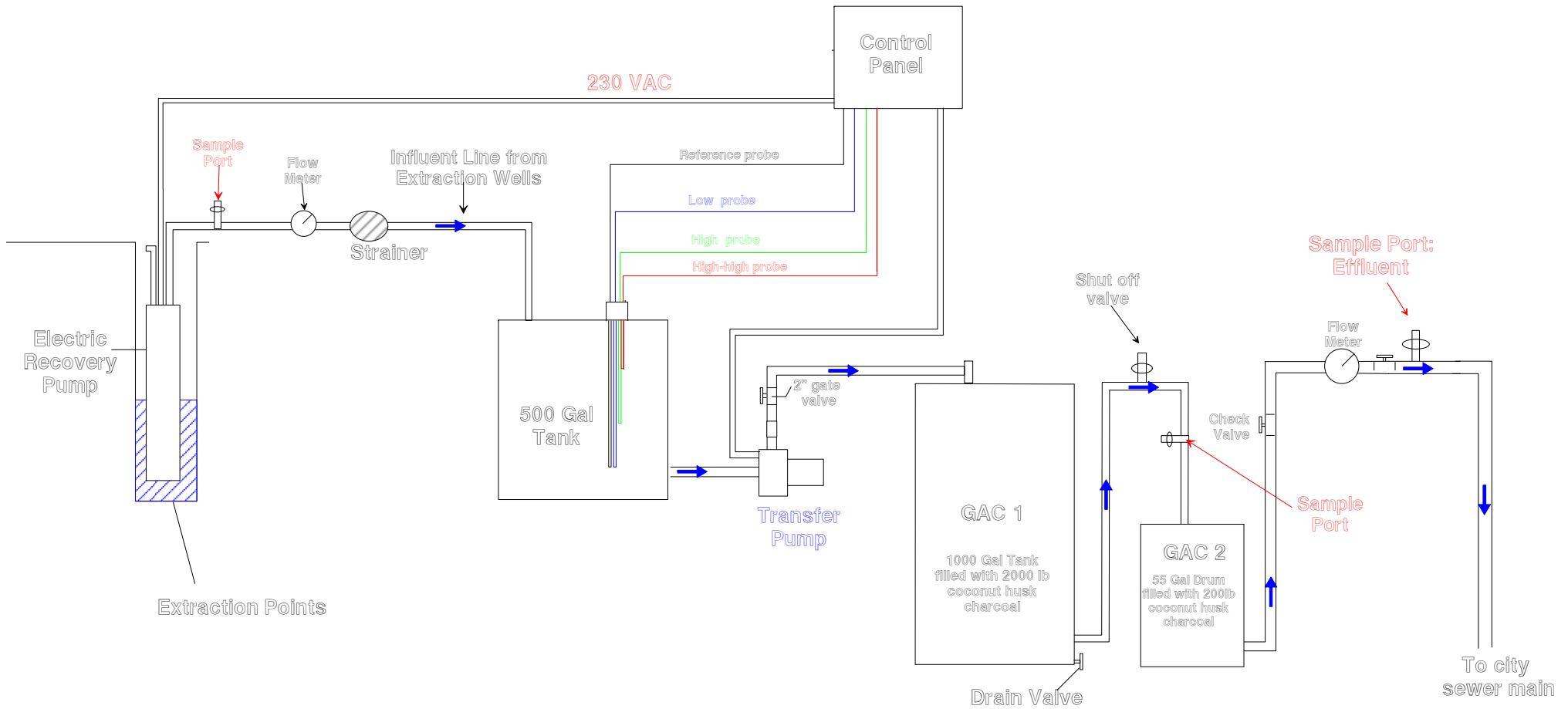


Figure 10: Schematic diagram of Groundwater Remediation System

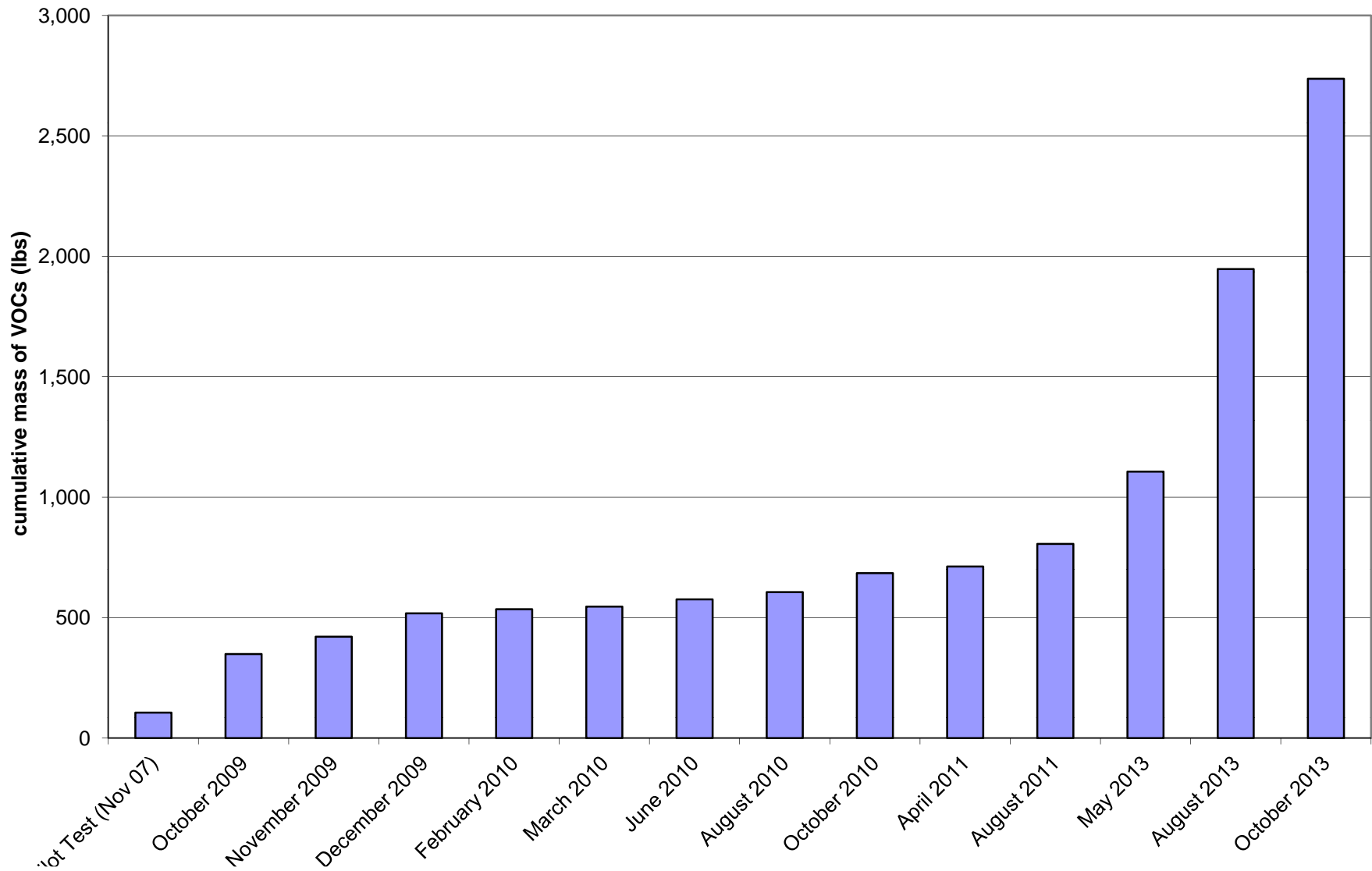


Figure 11: Cumulative mass of VOCs removed

Tables

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| 1st WBZ | | | | | | | | | | | |
| MW-1 | 5/10/2002 | 51.71 | 22.85 | - | 28.86 | 5,700 | 360 | 4.5 | 340 | 450 | 2 |
| | 8/8/2002 | 51.71 | 23.31 | - | 28.40 | 9,100 | 590 | 2.6 | 830 | 362 | <1.3 |
| | 11/8/2002 | 51.71 | 23.58 | - | 28.13 | 7,900 | 570 | 3.1 | 680 | 392 | < 1.0 |
| | 2/21/2003 | 51.71 | 22.62 | - | 29.09 | 2,900 | 160 | 1.6 C | 170 | 211 | <0.5 |
| | 5/28/2003 | 51.71 | 22.43 | - | 29.28 | 1,700 | 55 | <0.5 | 90 | 115 | 2.00 |
| | 8/12/2003 | 51.71 | 21.30 | - | 30.41 | 2,600 | 2.5 | <0.5 | 190 | 130 | <0.5 |
| | 10/9/2003 | 51.71 | 23.49 | - | 28.22 | 9,200 | 560.0 | 2.7 C | 670 | 648 | <1.0 |
| | 1/15/2004 | 51.71 | 22.43 | - | 29.28 | 5,500 | 190 | <1.0 | 220 | 124.4 | <0.5 |
| | 5/25/2004 | 51.71 | 22.94 | - | 28.77 | 8,000 | 400 | 1.50 | 420 | 393 | 3.40 |
| | 9/21/2004 | 54.46 | 23.49 | - | 30.97 | 9,300 | 580 | 9.30 | 690 | 683 | 4.60 |
| | 12/14/2004 | 54.46 | 23.01 | - | 31.45 | 7,360 | 337 | <4.3 | 731 | 633 | <4.3 |
| | 3/11/2005 | 54.46 | 21.48 | - | 32.98 | 2,510 | 45.2 | <0.5 | 23.2 | 39.63 | 2.80 |
| | 6/15/2005 | 54.46 | 22.42 | - | 32.04 | 1,690 | 36.3 | <2.0 | 59.5 | 28.73 | 2.01 |
| | 8/26/2005 | 54.46 | 23.00 | - | 31.46 | 7,310 | 318 | <8.60 | 475 | 316 | 5.15 |
| | 11/11/2005 | 54.46 | 21.40 | - | 33.06 | 9,640 | 341 | <8.6 | 467 | 329.7 | 6.04 |
| | 2/9/2006 | 54.46 | 21.81 | - | 32.65 | 775 | 14 | <2.0 | 12.6 | 10.32 | 4.01 |
| | 5/9/2006 | 54.46 | 21.68 | - | 32.78 | 444 | 7.80 | <2.0 | 12.1 | 6.31 | 1.75 |
| | 8/10/2006 | 54.46 | 22.79 | - | 31.67 | 5,090 | 324 | <8.60 | 108 | 59.9 | 8.24 |
| | 10/26/2006 | 54.46 | 23.19 | - | 31.27 | 6,950 | 556 | <4.0 | 190 | 136.09 | 8.61 |
| | 1/25/2007 | 54.46 | 22.82 | - | 31.64 | 2,640 | 196 | <2.0 | 105 | 25.5 | 7.92 |
| | 4/26/2007 | 54.46 | 22.67 | - | 31.79 | 861 | 95.5 | <2.0 | 17 | 6.36 | 4.00 |
| | 7/25/2007 | 54.46 | 23.25 | - | 31.21 | 4,520 | 412 | <4.0 | 182 | 77.9 | 7.48 |
| | 10/23/2007 | 54.46 | 23.42 | - | 31.04 | 3,900 | 117 | <2.0 | 87.1 | 23.87 | 4.54 |
| 1/22/2008 | 54.46 | 22.59 | - | 31.87 | 2,260 | 81.3 | <2.0 | 17.5 | <2.0 | 4.23 | |
| 4/16/2008 | 54.46 | 22.89 | - | 31.57 | 2,320 | 248 | <2.0 | 54.1 | 37.3 | <0.5 | |
| 7/3/2008 | 54.46 | 23.33 | - | 31.13 | 5,240 | 414 | <2.0 | 168 | 94 | 6.56 | |
| 10/15/2008 | 54.46 | 23.76 | - | 30.70 | 4,500 ^Y | 260 | <1.0 | 150 | 130 | 3.40 | |
| 1/7/2009 | 54.46 | 23.25 | - | 31.21 | 4,800 | 140 | <1.3 | 48 | 32 | 1.70 | |
| 4/14/2009 | 54.46 | 22.52 | - | 31.94 | 1,800 ^Y | 78 | <0.5 | 35 | 18 | 2.50 | |
| 8/27/2009 | 54.46 | 23.6 | - | 30.86 | 4,500 | 330 | <2.0 | 97 | 42 | 4.60 | |
| 12/2/2009 | 54.46 | 23.43 | - | 31.03 | 3,800 ^Y | 250 | <2.0 | 110 | 25 | 2.50 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-1 cont | 3/17/2010 | 54.46 | 22.32 | - | 32.14 | 1,100 | 33 | <0.50 | 46 | 18 | 1.70 |
| | 6/3/2010 | 54.46 | 22.88 | - | 31.58 | 10,000 | 330 | 4.3 | 680 | 841.5 | 5.20 |
| | 9/2/2010 | 54.46 | 23.28 | - | 31.18 | 8,900 | 440 | <5.0 | 510 | 310 | <5.0 |
| | 12/2/2010 | 54.46 | 23.21 | - | 31.25 | 7,400 | 250 | <3.1 | 390 | 180 | <3.1 |
| | 3/4/2011 | 54.46 | 21.95 | N | 32.51 | 2,400 | 67 | <0.5 | 45 | 8.4 | 2.20 |
| | 5/20/2011 | 54.46 | 22.8 | N | 31.66 | 9,500 | 260 | 6.2 | 970 | 480 | <3.6 |
| | 9/9/2011 | 54.46 | 22.81 | N | 31.65 | 6,400 | 220 | <1.3 | 380 | 160 | 2.30 |
| | 12/2/2011 | 54.46 | 21.97 | N | 32.49 | 4,700 ^x | 96 | <1.7 | 310 | 200 | <3.3 |
| | 3/2/2012 | 54.46 | 22.82 | N | 31.64 | 6,800 | 320 | <2.5 | 430 | 120 | <2.5 |
| | 6/7/2012 | 54.46 | 22.92 | N | 31.54 | 5,600 | 130 | <2.5 | 360 | 160 | 2.9 |
| | 9/21/2012 | 54.46 | 23.56 | N | 30.90 | 8,000 | 300 | <2.5 | 410 | 340 | 2.6 |
| | 12/14/2012 | 54.46 | 22.77 | N | 31.69 | 5,900 | 130 | <2.5 | 320 | 97 | <2.5 |
| | 3/28/2013 | 54.46 | 23.15 | N | 31.31 | 5,100 | 230 | <2.5 | 280 | 48 | 3.6 |
| | 6/11/2013 | 54.46 | 23.48 | N | 30.98 | 6,800 | 200 | <2.5 | 300 | 120 | <2.5 |
| | 9/17/2013 | 54.46 | 23.84 | N | 30.62 | 7,500 | 120 | <2.5 | 410 | 260 | <2.5 |
| 12/6/2013 | 54.46 | 24.16 | N | 30.30 | 5,300 | 71 | <1.7 | 240 | 84 | <1.7 | |
| | | | | | | | | | | | |
| MW-2 | 5/10/2002 | 49.66 | 22.83 | - | 26.83 * | 3,100 | 67 | 8 | 250 | 215 | 56 |
| | 8/8/2002 | 49.66 | 21.41 | - | 28.25 | 2,700 | 4.6 | <0.5 | 310 | 140 | <0.5 |
| | 11/8/2002 | 49.66 | 21.79 | - | 27.87 | 3,400 | 4.6 | < 0.5 | 310 | 160 | < 0.5 |
| | 2/21/2003 | 49.66 | 20.51 | - | 29.15 | 890 | 1.7 C | 0.80 C | 68 | 38.92 C | <0.5 |
| | 5/28/2003 | 49.66 | 20.33 | - | 29.33 | 2,700 | 5.2 C | <0.5 | 120 | 140 | 1.2 |
| | 8/12/2003 | 49.66 | 23.18 | - | 26.48* | 8,500 | 640 | <2.5 | 560 | 659 | <0.8 |
| | 10/9/2003 | 49.66 | 21.71 | - | 27.95 | 3100 H | 4.3 C | <0.5 | 210 | 160 | <0.5 |
| | 1/15/2004 | 49.66 | 20.31 | - | 29.35 | 660 H | 1.5 C | <0.5 | 8.9 | 25 | <0.5 |
| | 5/25/2004 | 49.66 | 21.09 | - | 28.57 | 4,500 | 5.1 C | <0.5 | 190 | 230 | 0.70 |
| | 9/21/2004 | 52.41 | 21.71 | - | 30.70 | 370 | 0.76 C | <0.5 | 25 | 16 | 0.50 |
| | 12/14/2004 | 52.41 | 21.20 | - | 31.21 | 880 | 1.0 | <0.5 | 66 | 52 | <0.5 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-2 cont. | 3/11/2005 | 52.41 | 19.15 | - | 33.26 | 564 | <0.5 | <0.5 | 21 | 11.9 | <0.5 |
| | 6/15/2005 | 52.41 | 20.30 | - | 32.11 | 2,040 | 1.2 | <2.0 | 78.2 | 22 | <0.5 |
| | 8/26/2005 | 52.41 | 20.97 | - | 31.44 | 1,500 | 0.930 | <2.00 | 87.6 | 21 | 0.86 |
| | 11/11/2005 | 52.41 | 25.30 | - | 27.11 | 2,140 | 1.08 | <2.0 | 104 | 29 | 0.79 |
| | 2/9/2006 | 52.41 | 19.41 | - | 33.00 | 1,410 | <0.5 | <2.0 | 99.6 | 21.4 | 0.72 |
| | 5/9/2006 | 52.41 | 19.41 | - | 33.00 | 1,100 | <0.5 | <2.0 | 86.5 | 17 | <0.5 |
| | 8/10/2006 | 52.41 | 20.8 | - | 31.61 | 3,180 | 2.87 | <2.0 | 88.9 | 24.8 | <0.50 |
| | 10/26/2006 | 52.41 | 21.22 | - | 31.19 | 1,200 | <0.5 | <2.0 | 23.5 | 4.79 | 0.6 |
| | 1/25/2007 | 52.41 | 20.89 | - | 31.52 | 623 | 0.64 | <2.0 | 42.4 | 4.37 | 0.66 |
| | 4/26/2007 | 52.41 | 20.65 | - | 31.76 | 169 | <0.5 | <2.0 | 15.2 | 2.3 | <0.5 |
| | 7/25/2007 | 52.41 | 21.43 | - | 30.98 | 276 | 0.78 | <2.0 | 22.1 | 4.04 | <0.5 |
| | 10/23/2007 | 52.41 | 21.59 | - | 30.82 | 535 | <0.5 | <2.0 | 18 | 5.11 | <0.5 |
| | 1/22/2008 | 52.31 | 20.45 | - | 31.86 | 132 | <0.5 | <2.0 | 12.2 | <2.0 | <0.5 |
| | 4/15/2008 | 52.41 | 20.89 | - | 31.52 | 852 | <0.5 | <2.0 | 27.2 | 4.78 | <0.5 |
| | 7/2/2008 | 52.41 | 21.5 | - | 30.91 | 98.3 | <0.5 | <2.0 | 2.76 | <2.0 | <0.5 |
| | 10/15/2008 | 52.41 | 22.06 | - | 30.35 | 1,400 ^Y | <0.5 | <0.5 | 60 | 17 | <0.5 |
| | 1/7/2009 | 52.41 | 21.35 | - | 31.06 | 93 | <0.5 | <0.5 | 2.1 | 0.74 | <0.5 |
| | 4/13/2009 | 52.41 | 20.52 | - | 31.89 | 480 ^Y | <0.5 | <0.5 | 20 | 5.5 | <0.5 |
| | 8/27/2009 | 52.41 | 21.85 | - | 30.56 | 130 | <0.5 | <0.5 | 2.5 | 0.61 | <0.5 |
| | 12/1/2009 | 52.41 | 21.59 | - | 30.82 | 760 ^Y | <0.5 | <0.5 | 14 | 1.5 | <0.5 |
| | 3/17/2010 | 52.41 | 20.11 | - | 32.30 | 480 | <0.5 | <0.5 | 30 | 6.9 | <0.5 |
| | 6/3/2010 | 52.41 | 21 | - | 31.41 | 690 | <0.5 | <0.5 | 14 | 2.6 | <0.5 |
| | 9/2/2010 | 52.41 | 21.42 | - | 30.99 | 470 | <0.5 | <0.5 | 7.6 | 1 | <0.5 |
| 12/2/2010 | 52.41 | 21.44 | - | 30.97 | 470 | <0.5 | <0.5 | 7.6 | 3.3 | <0.5 | |
| 3/4/2011 | 52.41 | 19.65 | N | 32.76 | 240 | <0.5 | <0.5 | 6.6 | 0.8 | <0.5 | |
| 5/20/2011 | 52.41 | 20.75 | N | 31.66 | 310 | <0.5 | <0.5 | 4.8 | <0.5 | <0.5 | |
| 9/9/2011 | 52.41 | 21.05 | N | 31.36 | 1,000 | <0.5 | <0.5 | 12 | 0.76 | <0.5 | |
| 12/2/2011 | 52.41 | 20.14 | N | 32.27 | 900 ^X | <2.9 | <1.7 | 14 | 1.9 | <3.3 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-2 cont. | 3/2/2012 | 52.41 | 19.98 | N | 32.43 | 880 | <0.5 | <0.5 | 5.3 | 0.58 | <0.5 |
| | 6/7/2012 | 52.41 | 21.04 | N | 31.37 | 720 | <0.5 | <0.5 | 7.9 | 0.79 | <0.5 |
| | 9/21/2012 | 52.41 | 21.78 | N | 30.63 | 1,400 | <0.5 | <0.5 | 11 | <0.5 | <0.5 |
| | 12/14/2012 | 52.41 | 20.71 | N | 31.70 | 760 | <0.5 | <0.5 | 10 | 1.5 | <0.5 |
| | 3/28/2013 | 52.41 | 21.24 | N | 31.17 | 890 | <0.5 | <0.5 | 4.3 | <0.5 | <0.5 |
| | 6/11/2013 | 52.41 | 21.67 | N | 30.74 | 510 | 150 | <0.5 | 15 | 12.3 | 3.1 |
| | 9/16/2013 | 52.41 | 22.15 | N | 30.26 | 210 | <0.5 | <0.5 | 1.1 | <0.5 | <0.5 |
| | 12/6/2013 | 52.41 | 22.52 | N | 29.89 | 290 | 1.4 | <0.5 | 1.1 | <0.5 | <0.5 |
| <hr/> | | | | | | | | | | | |
| MW-3 | 5/10/2002 | 51.16 | 22.28 | - | 28.88 | 44,000 | 6,000 | 900 | 1,500 | 6,200 | 2,400 |
| | 8/8/2002 | 51.16 | 22.88 | - | 28.28 | 40,000 | 5,800 | 1,100 | 1,600 | 6,500 | 1,300 |
| | 11/8/2002 | 51.16 | 23.19 | - | 27.97 | 47,000 | 5,300 | 1,200 | 2,200 | 8,600 | 1,000 |
| | 2/21/2003 | 51.16 | 22.02 | - | 29.14 | 39,000 | 5,500 | 1,500 | 2,000 | 8,600 | 1,300 |
| | 5/28/2003 | 51.16 | 21.89 | - | 29.27 | 52,000 | 7,300 | 3,000 | 2,800 | 12,700 | 2,100 |
| | 8/12/2003 | 51.16 | 22.66 | - | 28.50 | 31,000 | 6,100 | 860 | 1,500 | 6,900 | 1,200 |
| | 10/9/2003 | 51.16 | 23.06 | - | 28.10 | 41,000 | 6,100 | 1,100 | 2,200 | 10,200 | 960 |
| | 1/15/2004 | 51.16 | 21.85 | - | 29.31 | 51,000 | 4,100 | 1,100 | 2,000 | 8,400 | 590 |
| | 5/25/2004 | 51.16 | 22.55 | - | 28.61 | 65,000 | 4,300 | 1,300 | 2,500 | 10,500 | 720 |
| | 9/21/2004 | 53.91 | 23.08 | - | 30.83 | 42,000 | 4,900 | 890 | 2,200 | 8,700 | 480 |
| | 12/14/2004 | 53.91 | 22.52 | - | 31.39 | 35,151 | 4,066 | 972 | 2,942 | 13,032 | 491 |
| | 3/11/2005 | 53.91 | 20.90 | - | 33.01 | 42,600 | 3,040 | 1,100 | 1,530 | 6,670 | 968 |
| | 6/15/2005 | 53.91 | 21.85 | - | 32.06 | 84,100 | 5,110 | 2,160 | 3,030 | 8,800 | 2,670 |
| | 8/26/2005 | 53.91 | 22.49 | - | 31.42 | 43,500 | 3,630 | 1,080 | 2,500 | 6,830 | 1,440 |
| | 11/11/2005 | 53.91 | 22.81 | - | 31.10 | 47,700 | 4,240 | 520 | 2,170 | 6,320 | 1,390 |
| | 2/9/2006 | 53.91 | 21.12 | - | 32.79 | 44,500 | 5,070 | 1360 | 1,920 | 4,840 | 3,280 |
| 5/9/2006 | 53.91 | 21.09 | - | 32.82 | 48,100 | 2,510 | 1,140 | 1,950 | 5,030 | 2,210 | |
| 8/10/2006 | 53.91 | 22.26 | - | 31.65 | 42,100 | 3,450 | 869 | 1,760 | 5,650 | 3,570 | |
| 10/26/2006 | 53.91 | 22.73 | - | 31.18 | 33,400 | 4,800 | 331 | 1,170 | 3,510 | 4,790 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-3 cont. | 1/25/2007 | 53.91 | 22.34 | - | 31.57 | 19,300 | 4,820 | 167 | 1,540 | 3,740 | 3,430 |
| | 4/26/2007 | 53.91 | 22.24 | - | 31.67 | 30,700 | 2,350 | 158 | 1,470 | 4,320 | 1,330 |
| | 7/25/2007 | 53.91 | 22.83 | - | 31.08 | 34,900 | 5,400 | 364 | 2,080 | 6,360 | 1,980 |
| | 10/23/2007 | 53.91 | 23.01 | - | 30.9 | 22,600 | 4,070 | <86 | 1,120 | 3,095 | 970 |
| | 1/22/2008 | 53.96 | 22.04 | - | 31.92 | 22,100 | 1,280 | 453 | 1,330 | 3,520 | 490 |
| | 4/16/2008 | 53.91 | 22.4 | - | 31.51 | 20,700 | 2,790 | 182 | 860 | 3,389 | 263 |
| | 7/3/2008 | 53.91 | 22.9 | - | 31.01 | 48,500 | 3,760 | 346 | 3,130 | 12,980 | 573 |
| | 10/16/2008 | 53.91 | 23.36 | - | 30.55 | 50,000 | 3,900 | 300 | 3,100 | 11,000 | 460 |
| | 1/8/2009 | 53.91 | 22.82 | - | 31.09 | 54,000 | 2,600 | 180 | 2,500 | 8,800 | 220 |
| | 4/13/2009 | 53.91 | 22.06 | - | 31.85 | 49,000 | 2,900 | 170 | 2,100 | 8,100 | 490 |
| | 8/27/2009 | 53.91 | 23.11 | - | 30.80 | 43,000 | 2,500 | 160 | 1,900 | 7,000 | 210 |
| | 12/2/2009 | 53.91 | 23.00 | - | 30.91 | 30,000 | 2,100 | 180 | 1,600 | 5,600 | 91 |
| | 3/17/2010 | 53.91 | 21.90 | - | 32.01 | 24,000 | 970 | 81 | 1,100 | 3,700 | 38 |
| | 6/3/2010 | 53.91 | 22.49 | - | 31.42 | 31,000 | 1,200 | 110 | 1,300 | 4,400 | 34 |
| | 9/2/2010 | 53.91 | 22.76 | - | 31.15 | 26,000 | 1,100 | 81 | 1,200 | 3,810 | 26 |
| | 12/2/2010 | 53.91 | 22.86 | - | 31.05 | 18,000 | 830 | 47 | 780 | 2,360 | 14 |
| | 3/4/2011 | 53.91 | 21.44 | N | 32.47 | 18,000 | 410 | 32 | 850 | 2,480 | 16 |
| | 5/20/2011 | 53.91 | 22.36 | N | 31.55 | 12,000 | 710 | 24 | 620 | 1,460 | 11 |
| | 9/9/2011 | 53.91 | 22.44 | N | 31.47 | 11,000 | 1,100 | 26 | 580 | 1,430 | 7.8 |
| | 12/2/2011 | 53.91 | 21.60 | N | 32.31 | 5,100 ^x | 280 | 12 | 370 | 740 | <1.7 |
| 3/2/2012 | 53.91 | 22.39 | N | 31.52 | 13,000 | 440 | 23 | 690 | 1,570 | <5.0 | |
| 6/7/2012 | 53.91 | 22.50 | N | 31.41 | 9,000 | 290 | 9.3 | 520 | 900 | <5.0 | |
| 9/21/2012 | 53.91 | 23.17 | N | 30.74 | 12,000 | 710 | 26 | 630 | 1,230 | 8.2 | |
| 12/14/2012 | 53.91 | 22.32 | Y | 31.59 | 8,500 | 350 | 8.7 | 550 | 1,003 | <5 | |
| 3/28/2013 | 53.91 | 22.69 | Y | 31.22 | 9,300 | 790 | 8.2 | 760 | 974 | 8.7 | |
| 6/11/2013 | 53.91 | 23.06 | Y | 30.85 | 14,000 | 700 | 26 | 860 | 1,630 | 6.1 | |
| 9/17/2013 | 53.91 | 23.41 | Y | 30.50 | 28,000 | 570 | 37 | 1,800 | 3,560 | <10 | |
| 12/6/2013 | 53.91 | 23.76 | Y | 30.15 | 23,000 | 360 | 26 | 1,700 | 3,330 | <10 | |
| | | | | | | | | | | | |
| MW-4 | 5/10/2002 | 50.54 | 21.78 | - | 28.76 | 880 | 25 | 1.0C | 110 | 52 | 12,000 |
| | 8/8/2002 | 50.54 | 22.50 | - | 28.04 | 3,800 | 70 | <5.0 | 300 | 115 | 4,800 |
| | 11/8/2002 | 50.54 | 22.81 | - | 27.73 | 5,100 | 150 | 10 | 460 | 258 | 2,400 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-4 cont. | 2/21/2003 | 50.54 | 21.48 | - | 29.06 | 3,200 | 98 | 66 | 220 | 360 | 6,600 |
| | 5/28/2003 | 50.54 | 21.24 | - | 29.30 | 6,200 | 140 | 46 | 200 | 790 | 2,300 |
| | 8/12/2003 | 50.54 | 22.32 | - | 28.22 | 7,500 | 180 | 57 | 220 | 1450 | 1,900 |
| | 10/9/2003 | 50.54 | 22.74 | - | 27.80 | 5,800 | 250 | 32 | 300 | 970 | 7,800 |
| | 1/15/2004 | 50.54 | 21.19 | - | 29.35 | 5,900 | 270 | 17 C | 150 | 640 | 7,300 |
| | 5/25/2004 | 50.54 | 22.03 | - | 28.51 | 9,100 | 210 | 51 | 200 | 1190 | 1800 |
| | 9/21/2004 | 53.31 | 22.76 | - | 30.55 | 5,200 | 290 | 12 | 370 | 600 | 7300 |
| | 12/14/2004 | 53.31 | 21.99 | - | 31.32 | 8,937 | 538 | 114 | 416 | 2379 | 5021 |
| | 3/11/2005 | 53.31 | 20.01 | - | 33.30 | 12,300 | 225 | 39.6 | 80.1 | 1465 | 3870 |
| | 6/15/2005 | 53.31 | 21.25 | - | 32.06 | 7,690 | 114 | 32.6 | 77.1 | 555 | 1150 |
| | 8/26/2005 | 53.31 | 22.03 | - | 31.28 | 8,850 | 175 | 24.6 | 150 | 851 | 1380 |
| | 11/11/2005 | 53.31 | 22.43 | - | 30.88 | 9,990 | 356 | <43 | 196 | 700 | 3,640 |
| | 2/9/2006 | 53.31 | 20.31 | - | 33.00 | 6,850 | 205 | <43 | 67.2 | 255.2 | 5,120 |
| | 5/9/2006 | 53.31 | 20.33 | - | 32.98 | 1,290 | 18.1 | <8.6 | 12.9 | 25.87 | 799 |
| | 8/10/2006 | 53.31 | 21.74 | - | 31.57 | 7,830 | 118 | <8.60 | 25.3 | 174.6 | 919 |
| | 10/26/2006 | 53.31 | 22.29 | - | 31.02 | 1,540 | 81.9 | <43 | 96 | 46.4 | 3,610 |
| | 1/25/2007 | 53.31 | 21.86 | - | 31.45 | 4,370 | 163 | <8.6 | 85.1 | 269.1 | 1,050 |
| | 4/26/2007 | 53.31 | 21.63 | - | 31.68 | 4,380 | 140 | <8.6 | 67 | 276.8 | 576 |
| | 7/25/2007 | 53.31 | 22.49 | - | 30.82 | 4,970 | 220 | <8.60 | 198 | 241.5 | 1,040 |
| | 10/23/2007 | 53.31 | 22.69 | - | 30.62 | 4,200 | 267 | <8.6 | 147 | 155.5 | 1,220 |
| | 1/22/2008 | 53.36 | 21.39 | - | 31.97 | 2,180 | 133 | <22.0 | 43.1 | 32.2 | 1,800 |
| | 4/15/2008 | 53.31 | 21.9 | - | 31.41 | 4,240 | 90.4 | <22.0 | 107 | 380 | 674 |
| | 7/2/2008 | 53.31 | 22.55 | - | 30.76 | 2,300 | 193 | <22.0 | 212 | 183 | 4,050 |
| 10/16/2008 | 53.31 | 23.13 | - | 30.18 | 8,900 | 320 | 3.7 | 430 | 1,160 | 450 | |
| 1/8/2009 | 53.31 | 22.42 | - | 30.89 | 19,000 | 430 | 44 | 590 | 3,380 | 440 | |
| 4/13/2009 | 53.31 | 21.51 | - | 31.80 | 21,000 | 400 | 38 | 450 | 2,880 | 330 | |
| 8/27/2009 | 53.31 | 22.94 | - | 30.37 | 16,000 | 960 | 64 | 560 | 2,120 | 290 | |
| 12/2/2009 | 53.31 | 22.36 | - | 30.95 | 4,400 | 480 | 6 | 170 | 640 | 110 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-------------------|--------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-4 cont. | 3/17/2010 | 53.31 | 21.39 | - | 31.92 | 14,000 | 260 | 6 | 230 | 1,220 | 93 |
| | 6/3/2010 | 53.31 | 22.23 | - | 31.08 | 18,000 | 240 | 4 | 310 | 770 | 41 |
| | 9/2/2010 | 53.31 | 22.51 | - | 30.80 | 1,800 | 800 | <3.6 | 150 | 25 | 33 |
| | 12/2/2010 | 53.31 | 22.71 | - | 30.60 | 3,800 | 1,500 | <10 | 200 | 115 | 29 |
| | 3/3/2011 | 53.31 | 20.64 | N | 32.67 | 2,400 | 28 | <0.71 | 28 | 17 | 3 |
| | 5/19/2011 | 53.31 | 21.84 | N | 31.47 | 1,800 | 27 | <0.5 | 29 | 11.2 | 4.8 |
| | 9/8/2011 | 53.31 | 22.11 | N | 31.20 | 3,600 | 300 | 2.6 | 270 | 68.5 | 59 |
| | 12/1/2011 | 53.31 | 21.38 | N | 31.93 | 1,400 ^x | 370 | <0.84 | 110 | 30.6 | 110 |
| | 3/2/2012 | 53.31 | 22.02 | N | 31.29 | 3,100 | 780 | <2.0 | 150 | 59.6 | 50 |
| | 6/7/2012 | 53.31 | 22.24 | N | 31.07 | 2,000 | 290 | <2.5 | 66 | 23 | 29 |
| | 9/21/2012 | 53.31 | 22.87 | N | 30.44 | 2,900 | 820 | <2.5 | 75 | 17 | 72 |
| | 12/14/2012 | 53.31 | 21.84 | N | 31.47 | 840 | 48 | <0.5 | 14 | 4.5 | 2.5 |
| | 3/28/2013 | 53.31 | 22.24 | N | 31.07 | 790 | 650 | <5.0 | 26 | <5.0 | 15 |
| | 6/11/2013 | 53.31 | 22.71 | N | 30.60 | 1,100 | 860 | <5.0 | 64 | <5.0 | 35 |
| | 9/17/2013 | 53.31 | 23.23 | N | 30.08 | <1,000 | 1,300 | <10 | 22 | <10 | 44 |
| 12/6/2013 | 53.31 | 23.6 | N | 29.71 | 2,300 | 3,300 | <10 | 78 | 199 | 42 | |
| MW-5 | 5/10/2002 | 47.79 | 19.02 | - | 28.77 | 25,000 | 1,000 | 1200 | 1,100 | 3,060 | 1,800 |
| | 8/8/2002 | 47.79 | 19.80 | - | 27.99 | 18,000 | 1,000 | 660 | 950 | 1,720 | 1,500 |
| | 11/8/2002 | 47.79 | 20.14 | - | 27.65 | 16,000 | 1,300 | 380 | 930 | 1,550 | 1,200 |
| | 2/21/2003 | 47.79 | 18.70 | - | 29.09 | 12,000 | 390 | 71 | 770 | 1,100 | 860 |
| | 5/28/2003 | 47.79 | 18.52 | - | 29.27 | 9,100 | 210 | 31 | 560 | 790 | 600 |
| | 8/12/2003 | 47.79 | 19.54 | - | 28.25 | 12,000 | 660 | 75 | 660 | 1,110 | 1,000 |
| | 10/9/2003 | 47.79 | 20.06 | - | 27.73 | 15,000 | 1,000 | 130 | 1,000 | 1,430 | 1,700 |
| | 1/15/2004 | 47.79 | 18.42 | - | 29.37 | 9,900 | 450 C | 16 | 500 | 431 | 1,100 |
| | 5/25/2004 | 47.79 | 19.30 | - | 28.49 | 9,200 | 380 | 24 | 490 | 536 | 720 |
| | 9/21/2004 | 50.53 | 20.15 | - | 30.38 | 10,000 | 980 | 71 | 560 | 770 | 1200 |
| | 12/14/2004 | 50.53 | 19.30 | - | 31.23 | 10,502 | 587 | 64 | 1040 | 1133 | 1015 |
| | 3/11/2005 | 50.53 | 17.20 | - | 33.33 | 8,390 | 407 | <5.5 | 83 | 42.5 | 1530 |
| | 6/15/2005 | 50.53 | 18.54 | - | 31.99 | 9,350 | 147 | 18.3 | 435 | 146.2 | 573 |
| | 8/26/2005 | 50.53 | 19.31 | - | 31.22 | 9,500 | 261 | <22 | 726 | 321.3 | 749 |
| | 11/11/2005 | 50.53 | 19.75 | - | 30.78 | 10,000 | 443 | 41.5 | 527 | 278.5 | 1,430 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-5 cont. | 2/9/2006 | 50.53 | 17.58 | - | 32.95 | 7,640 | 237 | <22 | 187 | 50.2 | 2,050 |
| | 5/9/2006 | 50.53 | 17.54 | - | 32.99 | 8,360 | 111 | <8.6 | 300 | 75.84 | 566 |
| | 8/10/2006 | 50.53 | 19.02 | - | 31.51 | 16,100 | 250 | <22 | 455 | 187.4 | 1,590 |
| | 10/26/2006 | 50.53 | 19.61 | - | 30.92 | 10,100 | 430 | <22 | 375 | 192.6 | 3,060 |
| | 1/25/2007 | 50.53 | 19.19 | - | 31.34 | 3,960 | 340 | <22 | 323 | 150.1 | 1,740 |
| | 4/26/2007 | 50.53 | 18.89 | - | 31.64 | 4,590 | 187 | <8.6 | 307 | 116.5 | 861 |
| | 7/25/2007 | 50.53 | 19.81 | - | 30.72 | 6,490 | 419 | 21.8 | 413 | 223.2 | 913 |
| | 10/23/2007 | 50.53 | 19.98 | - | 30.55 | 6,120 | 550 | 11 | 284 | 141.4 | 433 |
| | 1/22/2008 | 50.18 | 18.69 | - | 31.49 | 9,810 | 572 | 22 | 574 | 184.1 | 126 |
| | 4/15/2008 | 50.18 | 19.16 | - | 31.02 | 8,890 | 335 | 15.1 | 477 | 397.5 | 136 |
| | 7/3/2008 | 50.53 | 19.88 | - | 30.65 | 13,100 | 949 | 34.4 | 875 | 825.5 | 176 |
| | 10/16/2008 | 50.53 | 20.45 | - | 30.08 | 11,000 | 870 | 25 | 820 | 668 | 160 |
| | 1/8/2009 | 50.53 | 19.72 | - | 30.81 | 12,000 | 490 | 21 | 690 | 456 | 76 |
| | 4/13/2009 | 50.53 | 18.81 | - | 31.72 | 9,000 ^Y | 200 | 11 | 390 | 198 | 44 |
| | 8/27/2009 | 50.53 | 21.30 | - | 29.23 | 7,400 | 610 | 15 | 320 | 185 | 66 |
| | 12/2/2009 | 50.53 | 20.00 | - | 30.53 | 8,400 ^Y | 400 | 12 | 540 | 296 | 45 |
| Pre-MPE | 3/17/2010 | 50.53 | 18.73 | - | 31.80 | 4,800 | 120 | 8.7 | 120 | 107 | 14 |
| | 6/4/2010 | 50.53 | 19.60 | - | 30.93 | 7,200 | 160 | 5.7 | 190 | 149.2 | 24 |
| | 9/2/2010 | 50.53 | 19.82 | - | 30.71 | 9,200 | 110 | 12 | 270 | 318 | 35 |
| | 12/2/2010 | 50.53 | 20.10 | - | 30.43 | 9,100 | 170 | 6.7 | 350 | 442 | 23 |
| | 3/4/2011 | 50.53 | 18.00 | N | 32.53 | 2,600 | 18 | 0.62 | 54 | 18.1 | 3 |
| | 5/20/2011 | 50.53 | 19.18 | N | 31.35 | 4,000 | 91 | 8.5 | 110 | 106 | 33 |
| | 8/4/2011 | 50.53 | NM | - | NC | 3,000 | 23 | 0.95 | 92 | 43.7 | 5.4 |
| | 9/9/2011 | 50.53 | 19.41 | N | 31.12 | 4,200 | 120 | 2.8 | 140 | 61.1 | 22 |
| | 12/2/2011 | 50.53 | 18.59 | N | 31.94 | 6,900 ^x | 96 | 12 | 220 | 104 | 32 |
| | 3/2/2012 | 50.53 | 19.30 | N | 31.23 | 5,400 | 43 | 1.8 | 110 | 85 | 7 |
| | 6/7/2012 | 50.53 | 19.45 | N | 31.08 | 3,700 | 32 | <1.0 | 100 | 59 | 4.4 |
| | 9/21/2012 | 50.53 | 20.17 | N | 30.36 | 3,900 | 68 | 1.5 | 140 | 88.5 | 9.8 |
| | 12/14/2012 | 50.53 | 19.12 | N | 31.41 | 3,100 | 48 | 6.7 | 100 | 62.3 | 5.2 |
| | 3/28/2013 | 50.53 | 19.47 | N | 31.06 | 1,900 | 30 | <1.0 | 59 | 48.4 | 4.5 |
| | 6/11/2013 | 50.53 | 20.03 | N | 30.50 | 2,900 | 22 | 3.9 | 110 | 131 | 3.0 |
| | 9/17/2013 | 50.53 | 20.54 | N | 29.99 | 4,200 | 55 | 7.9 | 180 | 229 | 5.2 |
| 12/6/2013 | 50.53 | 20.86 | N | 29.67 | 3,600 | 35 | 2.1 | 160 | 241 | 2.5 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|---------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-6 | 9/21/2004 | 45.82 | 17.64 | - | 28.18 | 34,000 | 150 | 130 | 2200 | 8100 | 0.6 |
| | 12/14/2004 | 45.82 | 15.75 | - | 30.07 | 5,161 | 137 | 7 | 436 | 1136 | <5.5 |
| | 3/11/2005 | 45.82 | 13.80 | - | 32.02 | 6,040 | 125 | 3.22 | 260 | 722.1 | 4.94 |
| | 6/15/2005 | 45.82 | 14.78 | - | 31.04 | 5,590 | 44.3 | 6.60 | 272 | 382 | 5.85 |
| | 8/26/2005 | 45.82 | 15.91 | - | 29.91 | 6,130 | 99 | <8.6 | 378 | 492.9 | 5.66 |
| | 11/11/2005 | 45.82 | 16.55 | - | 29.27 | 11,400 | 101 | <8.6 | 645 | 834.7 | 4.33 |
| | 2/9/2006 | 45.82 | 13.92 | - | 31.90 | 2,790 | 32.3 | <8.6 | 131 | 131.22 | 7.30 |
| | 5/9/2006 | 45.82 | 13.95 | - | 31.87 | 3,730 | 25 | <2.0 | 213 | 207.82 | 5.87 |
| | 8/10/2006 | 45.82 | 15.28 | - | 30.54 | 4,800 | 41.9 | <2.0 | 201 | 189 | 10.4 |
| | 10/26/2006 | 45.82 | 16.11 | - | 29.71 | 6,080 | 37.4 | <2.0 | 116 | 183 | 9.78 |
| | 1/25/2007 | 45.82 | 15.76 | - | 30.06 | 3,220 | 25.2 | <2.0 | 219 | 174 | 14.7 |
| | 4/26/2007 | 45.82 | 15.18 | - | 30.64 | 3,110 | 28 | <2.0 | 165 | 138.47 | 14.6 |
| | 7/25/2007 | 45.82 | 16.82 | - | 29.00 | 4,960 | 54.1 | <2.0 | 199 | 255.87 | 8.05 |
| | 10/23/2007 | 45.82 | 16.91 | - | 28.91 | 9,610 | 64.3 | <2.0 | 188 | 302.6 | 5.81 |
| | 1/21/2008 | 45.82 | 15.36 | - | 30.46 | 3,290 | 33 | <2.0 | 149 | 131.31 | 3.86 |
| | 4/15/2008 | 45.82 | 15.73 | - | 30.09 | 2,070 | 10.8 | <2.0 | 51.1 | 67 | <0.5 |
| | 7/2/2008 | 45.82 | 16.9 | - | 28.92 | 7,900 | 42.4 | <2.0 | 194 | 296 | 3.58 |
| | 10/15/2008 | 45.82 | 17.21 | - | 28.61 | 18,000 ^Y | 42 | 1.4 | 320 | 673 | 1.7 |
| | 1/7/2009 | 45.82 | 17.08 | - | 28.74 | 13,000 | 47 | <3.1 | 210 | 425 | <3.1 |
| | 4/13/2009 | 45.82 | 15.52 | - | 30.30 | 7,200 ^Y | 26 | <1.3 | 170 | 312.6 | 2.6 |
| 8/26/2009 | 45.82 | 17.82 | - | 28.00 | 10,000 ^Y | 25 | <2.0 | 130 | 294 | 2.2 | |
| 12/1/2009 | 45.82 | 17.34 | - | 28.48 | 11,000 ^Y | 31 | 6.1 | 220 | 539 | <2.0 | |
| 3/16/2010 | 45.82 | 14.81 | - | 31.01 | 31,000 | 63 | 140 | 970 | 4,200 | 64 | |
| 6/3/2010 | 45.82 | 15.72 | - | 30.10 | 27,000 | 22 | 67 | 840 | 3,100 | 32 | |
| 9/1/2010 | 45.82 | 16.86 | - | 28.96 | 33,000 | 24 | 34 | 1,100 | 3,780 | 12 | |
| 12/2/2010 | 45.82 | 16.98 | - | 28.84 | 70,000 | 32 | 55 | 1,700 | 5,670 | 18 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|---------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-6 cont. | 3/3/2011 | 45.82 | 14.35 | Y | 31.47 | 7,000 | 18 | <2.5 | 97 | 237 | 11 |
| | 5/20/2011 | 45.82 | 14.95 | Y | 30.87 | 14,000 | 14 | <2.5 | 300 | 823 | 7.2 |
| | 9/8/2011 | 45.82 | 16.14 | Y | 29.68 | 23,000 | 28 | <2.5 | 360 | 812 | 3.4 |
| | 12/1/2011 | 45.82 | 16.17 | 16.15 | 29.66 | FP | FP | FP | FP | FP | FP |
| | 3/2/2012 | 45.82 | 16.11 | Y | 29.71 | 14,000 | 23 | <4.2 | 400 | 694.4 | <4.2 |
| | 6/6/2012 | 45.82 | 16.31 | Y | 29.51 | 9,200 | 12 | <1.7 | 210 | 320 | <1.7 |
| | 9/20/2012* | 45.82 | 17.36 | 17.32 | 28.49 | FP | FP | FP | FP | FP | FP |
| | 12/13/2012 | 45.82 | 15.46 | Y | 30.36 | 13,000 | 22 | <0.71 | 83 | 62.8 | 5.1 |
| | 3/27/2013 | 45.82 | 16.3 | Y | 29.52 | 7,400 | 27 | <1.3 | 190 | 221.8 | <1.3 |
| | 6/10/2013 | 45.82 | 17.37 | Y | 28.45 | 12,000 | 20 | <2.5 | 280 | 230 | <2.5 |
| | 9/16/2013 | 45.82 | 18.11 | 18.06 | 27.74 | FP | FP | FP | FP | FP | FP |
| | 12/5/2013 | 45.82 | 18.75 | Y | 27.07 | 18,000 | 220 | 330 | 460 | 2,030 | 6.1 |
| | | | | | | | | | | | |
| MW-7 | 9/21/2004 | 44.74 | 15.21 | - | 29.53 | 2,900 | <0.5 | <0.5 | 52 | 61 | 8.1 |
| | 12/14/2004 | 44.74 | 13.90 | - | 30.84 | <50 | 1.6 | <0.5 | 29 | 58 | 6.0 |
| | 3/11/2005 | 44.74 | 11.46 | - | 33.28 | 2,230 | <2.5 | <2.5 | 39.4 | 51.4 | 12.4 |
| | 6/15/2005 | 44.74 | 12.97 | - | 31.77 | 2,940 | 0.85 | <2.0 | 50.6 | 31.9 | 13.7 |
| | 8/26/2005 | 44.74 | 14.10 | - | 30.64 | 2,310 | <0.50 | <2.0 | 55.7 | 29.6 | 4.01 |
| | 11/11/2005 | 44.74 | 14.59 | - | 30.15 | 3,030 | <0.5 | <2.0 | 66.5 | 42.3 | 9.76 |
| | 2/9/2006 | 44.74 | NM | - | NM | NA | NA | NA | NA | NA | NA |
| | 5/9/2006 | 44.74 | 12.02 | - | 32.72 | 1,400 | <0.5 | <2.0 | 19.8 | 12.4 | 2.30 |
| | 8/10/2006 | 44.74 | 13.72 | - | 31.02 | 604 | <0.50 | <2.0 | 6.2 | 4.63 | 1.42 |
| | 10/26/2006 | 44.74 | 14.38 | - | 30.36 | 1350 | <0.50 | <2.0 | 16.6 | 10.8 | 1.87 |
| | 1/25/2007 | 44.74 | 13.93 | - | 30.81 | 340 | <0.5 | <2.0 | 6.84 | 2.44 | 1.63 |
| | 4/26/2007 | 44.74 | 14.44 | - | 30.30 | 552 | <0.5 | <2.0 | 11.4 | 6.11 | 4.12 |
| | 7/25/2007 | 44.74 | 14.79 | - | 29.95 | 1,230 | <0.5 | <2.0 | 27 | 19.24 | 3.2 |
| | 10/23/2007 | 44.74 | 14.88 | - | 29.86 | 1,730 | 0.67 | <2.0 | 20.7 | 17.31 | 8.44 |
| | 1/21/2008 | 44.74 | 13.34 | - | 31.40 | 610 | 1.15 | <2.0 | 8.4 | 4.34 | 17.2 |
| | 4/15/2008 | 44.74 | 13.91 | - | 30.83 | 1,460 | <0.5 | <2.0 | 15.9 | 19.7 | 17.3 |
| 7/2/2008 | 44.74 | 14.87 | - | 29.87 | 1,450 | <0.5 | <2.0 | 11 | 6.8 | 22.1 | |
| 10/15/2008 | 44.74 | 15.68 | - | 29.06 | 1,900 ^Y | 0.56 | 1.2 | 27 | 39.5 | 55 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|------------------|--------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-7 cont. | 1/7/2009 | 44.74 | 14.72 | - | 30.02 | 2,700 | 1.2 | 2.9 | 11 | 25 | 39 |
| | 4/13/2009 | 44.74 | 13.54 | - | 31.20 | 2,300 ^Y | <0.5 | <0.5 | 15 | 6.3 | 63 |
| | 8/26/2009 | 44.74 | 15.84 | - | 28.90 | 2,700 ^Y | <0.5 | <0.5 | 48 | 53 | 140 |
| | 12/1/2009 | 44.74 | 15.03 | - | 29.71 | 1,800 ^Y | <0.5 | <0.5 | 22 | 15 | 120 |
| | 3/16/2010 | 44.74 | 12.56 | - | 32.18 | 1,100 | <0.5 | <0.5 | 3.2 | 1.4 | 65 |
| | 6/3/2010 | 44.74 | 13.80 | - | 30.94 | 740 | <0.5 | <0.5 | 1.8 | 0.62 | 28 |
| | 9/1/2010 | 44.74 | 14.84 | - | 29.90 | 1,200 | <0.5 | <0.5 | 10 | 3.2 | 29 |
| | 12/2/2010 | 44.74 | 14.74 | - | 30.00 | 1,400 | <0.5 | <0.5 | 8 | 0.74 | 21 |
| | 3/3/2011 | 44.74 | 13.31 | N | 31.43 | 1,000 | <0.5 | <0.5 | 1.8 | <0.5 | 16 |
| | 5/19/2011 | 44.74 | 13.43 | N | 31.31 | 810 | <0.5 | <0.5 | 2.2 | 0.79 | 7.8 |
| | 9/8/2011 | 44.74 | 14.38 | N | 30.36 | 1,000 | <0.5 | <0.5 | 8.3 | 2.9 | 5.4 |
| | 12/1/2011 | 44.74 | 13.57 | N | 31.17 | 1,500 ^x | <0.33 | <0.19 | 12 | 5.7 | 13 |
| | 3/2/2012 | 44.74 | 14.16 | N | 30.58 | 1,000 | <0.5 | <0.5 | 4 | 1.1 | 5.1 |
| | 6/6/2012 | 44.74 | 14.00 | N | 30.74 | 780 | <0.5 | <0.5 | 2.9 | 1.0 | 2.6 |
| | 9/20/2012 | 44.74 | 15.26 | N | 29.48 | 1,200 | <0.5 | <0.5 | 4.3 | 0.92 | 2.7 |
| | 12/13/2012 | 44.74 | 13.34 | N | 31.40 | 1,100 | <0.5 | <0.5 | 0.99 | <0.5 | 3.4 |
| | 3/27/2013 | 44.74 | 14.30 | N | 30.44 | 680 | <0.5 | <0.5 | 1.8 | <0.5 | 4.2 |
| | 6/10/2013 | 44.74 | 15.06 | N | 29.68 | 890 | <0.5 | <0.5 | 2.6 | <0.5 | 2.3 |
| | 9/16/2013 | 44.74 | 15.78 | N | 28.96 | 1,400 | <0.5 | <0.5 | 7.9 | 2.70 | 4.1 |
| 12/5/2013 | 44.74 | 16.21 | N | 28.53 | 1,800 | <0.5 | <0.5 | 8 | 3.10 | 5.7 | |
| | | | | | | | | | | | |
| MW-8 | 9/21/2004 | 41.14 | 12.98 | - | 28.16 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2004 | 41.14 | 11.22 | - | 29.92 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 3/11/2005 | 41.14 | NM | - | NM | NA | NA | NA | NA | NA | NA |
| | 6/15/2005 | 41.14 | 10.46 | - | 30.68 | <200 | 0.53 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 8/26/2005 | 41.14 | 11.53 | - | 29.61 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 11/11/2005 | 41.14 | 11.92 | - | 29.22 | <50 | <0.5 | <2.0 | 1.36 | 1.8 | <0.5 |
| | 2/9/2006 | 41.14 | 9.74 | - | 31.40 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 5/9/2006 | 41.14 | 9.90 | - | 31.24 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 8/10/2006 | 41.14 | 10.9 | - | 30.24 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 10/26/2006 | 41.14 | 11.68 | - | 29.46 | <50 | <0.50 | <2.0 | 3.37 | <1.0 | <0.50 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|---------------------------------------|------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-8 cont. | 1/25/2007 | 41.14 | 11.44 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/26/2007 | 41.14 | 10.81 | - | 30.33 | <50 | <0.5 | <2.0 | 4.29 | <2.0 | <0.5 |
| | 7/25/2007 | 41.14 | 12.31 | - | 28.83 | <50 | <0.5 | <2.0 | 4.39 | <2.0 | <0.5 |
| | 10/23/2007 | 41.14 | 12.37 | - | 28.77 | <50 | <0.5 | <2.0 | 4.31 | <2.0 | <0.5 |
| | 1/21/2008 | 41.14 | 11.02 | - | 30.12 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/15/2008 | 41.14 | 11.44 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/2/2008 | 41.14 | 12.39 | - | 28.75 | 94.8 | <0.5 | <2.0 | 1 | <2.0 | <0.5 |
| | 10/15/2008 | 41.14 | 13.42 | - | 27.72 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | 41.14 | 12.50 | - | 28.64 | <50 | <0.5 | <0.5 | <0.5 | 0.6 | <0.5 |
| | 4/13/2009 | 41.14 | 11.23 | - | 29.91 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 8/27/2009 | 41.14 | 13.24 | - | 27.90 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| Well Decommissioned 11/13/2009 | | | | | | | | | | | |
| MW-9 | 9/21/2004 | 40.26 | 12.18 | - | 28.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2004 | 40.26 | 10.91 | - | 29.35 | <50 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 3/11/2005 | 40.26 | 10.52 | - | 29.74 | <200 | <0.5 | <0.5 | <0.5 | <1.0 | <0.5 |
| | 6/15/2005 | 40.26 | 14.73 | - | 25.53 | <200 | <0.5 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 8/26/2005 | 40.26 | 10.59 | - | 29.67 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 11/11/2005 | 40.26 | 11.25 | - | 29.01 | <50 | <0.5 | <2.0 | <0.5 | <1.0 | <0.5 |
| | 2/9/2006 | 40.26 | 10.05 | - | 30.21 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 5/9/2006 | 40.26 | 9.06 | - | 31.20 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 8/10/2006 | 40.26 | 10.01 | - | 30.25 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 10/26/2006 | 40.26 | 10.81 | - | 29.45 | <50 | <0.50 | <2.0 | <0.50 | <1.0 | <0.50 |
| | 1/25/2007 | 40.26 | 10.67 | - | 29.59 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/26/2007 | 40.26 | 10.05 | - | 30.21 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/25/2007 | 40.26 | 11.44 | - | 28.82 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 10/23/2007 | 40.26 | 11.59 | - | 28.67 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 1/21/2008 | 40.26 | 10.37 | - | 29.89 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 4/15/2008 | 40.26 | 10.56 | - | 29.70 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| 7/2/2008 | 40.26 | 11.95 | - | 28.31 | 161 | <0.5 | <2.0 | 2.15 | <2.0 | <0.5 | |
| 10/15/2008 | 40.26 | 12.64 | - | 27.62 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|---------------------------------------|--------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-9 cont. | 1/7/2009 | 40.26 | 11.75 | - | 28.51 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/13/2009 | 40.26 | 10.89 | - | 29.37 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/26/2009 | 40.26 | 12.50 | - | 27.76 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| Well Decommissioned 11/13/2009 | | | | | | | | | | | |
| Extraction Wells | | | | | | | | | | | |
| EX-1 | 12/2/2009 | 47.36 | 17.02 | - | 30.34 | 2,900 | 120 | 4 | 64 | 410 | 25 |
| | 3/16/2010 | 47.36 | 19.08 | - | 28.28 | 2,200 | 150 | 18 | 94 | 326 | 210 |
| | 6/3/2010 | 47.36 | 17.02 | - | 30.34 | 3,600 | 180 | 6.3 | 150 | 428 | 83 |
| | 9/1/2010 | 47.36 | 16.88 | - | 30.48 | 550 | 6.5 | 0.5 | 6.9 | 31.7 | 38 |
| | 12/2/2010 | 47.36 | 19.84 | - | 27.52 | <200 | 3.1 | <2.0 | <2.0 | <2.0 | 210 |
| | 3/3/2011 | 47.36 | 14.96 | N | 32.4 | 530 | 51 | 0.94 | 15 | 31.3 | 110 |
| | 5/19/2011 | 47.36 | 16.12 | N | 31.24 | 370 | 42 | <0.71 | 7.6 | 17.2 | 110 |
| | 9/8/2011 | 47.36 | 16.47 | N | 30.89 | 110 | 5 | <0.5 | 2.2 | 6.4 | 12 |
| | 12/1/2011 | 47.36 | 16.1 | N | 31.26 | 780 ^x | 91 | 3 | 29 | 85 | 150 |
| | 3/2/2012 | 47.36 | 16.35 | N | 31.01 | 140 | 6 | <0.5 | 3.5 | 8 | 14 |
| | 6/6/2012 | 47.36 | 24.76 | N | 22.6 | 250 | 22 | <0.5 | 4.7 | 20 | 71 |
| | 9/20/2012 | 47.36 | 17.26 | N | 30.1 | 95 | 24 | <0.5 | <0.5 | 2.61 | 36 |
| | 12/13/2012 | 47.36 | 16.55 | N | 30.81 | 1,000 | 73 | 2.3 | 47 | 110 | 48 |
| | 3/27/2013 | 47.36 | 16.15 | N | 31.21 | 69 | 4.1 | <0.5 | 3.3 | 10 | 1.8 |
| | 6/10/2013 | 47.36 | 24.25 | N | 23.11 | 340 | 37 | <0.5 | 5.9 | 15.1 | 62 |
| 9/16/2013 | 47.36 | 22.54 | N | 24.82 | 97 | 14 | <0.5 | <0.5 | <0.5 | 65 | |
| 12/5/2013 | 47.36 | 22.53 | N | 24.83 | 390 | 42 | 2.5 | 9.8 | 32.6 | 76 | |
| Extraction Wells | | | | | | | | | | | |
| EX-2 | 12/2/2009 | 45.96 | 17.56 | - | 28.4 | 7,100 ^y | 9.3 | 3.2 | 440 | 770 | <3.1 |
| | 3/16/2010 | 45.96 | 19.65 | - | 26.31 | 13,000 | 600 | 360 | 770 | 2,250 | 15 |
| | 6/3/2010 | 45.96 | 17.10 | - | 28.86 | 16,000 | 590 | 400 | 700 | 2,500 | 9.5 |
| | 9/1/2010 | 45.96 | 16.99 | - | 28.97 | 6,100 | 230 | 74 | 200 | 890 | 11 |
| | 12/2/2010 | 45.96 | 20.87 | - | 25.09 | 14,000 | 510 | 270 | 640 | 2,170 | 15 |
| | 3/3/2011 | 45.96 | 14.61 | N | 31.35 | 8,600 | 340 | 52 | 460 | 1,350 | 13 |
| | 5/19/2011 | 45.96 | 15.08 | N | 30.88 | 7,500 | 260 | 65 | 390 | 1,080 | 11 |
| | 9/8/2011 | 45.96 | 16.34 | N | 29.62 | 3,400 | 190 | 28 | 160 | 451 | 5.4 |
| | 12/1/2011 | 45.96 | 22.60 | N | 23.36 | 9,900 ^x | 630 | 200 | 690 | 1,760 | <3.3 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|------------------|------------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| EX-2 cont. | 3/2/2012 | 45.96 | 16.48 | N | 29.48 | 5,000 | 220 | 25 | 200 | 600 | 7.1 |
| | 6/6/2012 | 45.96 | 18.90 | N | 27.06 | 6,900 | 290 | 97 | 310 | 790 | 5.2 |
| | 9/20/2012 | 45.96 | 17.49 | N | 28.47 | 1,800 | 170 | 14 | 62 | 204 | 5.0 |
| | 12/13/2012 | 45.96 | 15.96 | N | 30 | 7,300 | 490 | 180 | 610 | 1,290 | 5.2 |
| | 3/27/2013 | 45.96 | 16.59 | N | 29.37 | 2,200 | 130 | 9.6 | 100 | 288 | 4.3 |
| | 6/10/2013 | 45.96 | 23.11 | N | 22.85 | 2,600 | 190 | 20 | 100 | 248 | 6.8 |
| | 9/20/2013 | 45.96 | 23.11 | N | 22.85 | 3,900 | 210 | 37 | 170 | 450 | 6.3 |
| | 12/5/2013 | 45.96 | 23.28 | N | 22.68 | 3,700 | 160 | 46 | 110 | 394 | 7.2 |
| MPE Wells | | | | | | | | | | | |
| MPE-1 | 12/1/2009 | 51.96 | 21.41 | - | 30.55 | NA | NA | NA | NA | NA | NA |
| | 3/16/2010 | 51.96 | 20.22 | - | 31.74 | NA | NA | NA | NA | NA | NA |
| | 6/3/2010 | 51.96 | 21.18 | - | 30.78 | NA | NA | NA | NA | NA | NA |
| | 9/1/2010 | 51.96 | 21.25 | - | 30.71 | NA | NA | NA | NA | NA | NA |
| | 12/2/2010 | 51.96 | 21.64 | - | 30.32 | NA | NA | NA | NA | NA | NA |
| Pre-MPE | 3/3/2011 | 51.96 | 19.33 | - | 32.63 | NA | NA | NA | NA | NA | NA |
| | 5/19/2011 | 51.96 | 20.6 | - | 31.36 | NA | NA | NA | NA | NA | NA |
| | 8/4/2011 | 51.96 | NM | - | NC | 49,000 | 210 | 100 | 840 | 7,070 | 45 |
| Post-MPE | 9/8/2011 | 51.96 | 20.83 | - | 31.13 | NA | NA | NA | NA | NA | NA |
| | 9/26/2011 | 51.96 | 20.94 | Y | 31.02 | 62,000 | 6,300 | 3,700 | 1,800 | 9,400 | 1,200 |
| | 12/2/2011 | 51.96 | 20.14 | Y | 31.82 | 56,000 | 9,000 | 7,700 | 2,200 | 10,800 | 2,600 |
| | 3/2/2012 | 51.96 | 20.73 | Y | 31.23 | 97,000 | 11,000 | 11,000 | 2,600 | 12,600 | 2,700 |
| | 6/6/2012 | 51.96 | 20.96 | Y | 31.00 | 78,000 | 4,500 | 4,900 | 2,300 | 10,700 | 750 |
| | 9/20/2012 | 51.96 | 21.58 | Y | 30.38 | 89,000 | 8,600 | 9,200 | 3,400 | 14,800 | 1,900 |
| | 12/14/2012 | 51.96 | 20.57 | Y | 31.39 | 98,000 | 7,400 | 9,600 | 2,900 | 13,300 | 1,300 |
| 3/27/2013 | 51.96 | 20.91 | Y | 31.05 | 61,000 | 6,600 | 4,500 | 2,200 | 9,400 | 1,500 | |
| 6/10/2013 | 51.96 | 21.47 | Y | 30.49 | 42,000 | 1,900 | 980 | 630 | 4,400 | 670 | |
| 9/17/2013 | 51.96 | 21.98 | Y | 29.98 | 45,000 | 2,400 | 1,400 | 1,200 | 8,000 | 150 | |
| 12/6/2013 | 51.96 | 22.41 | Y | 29.55 | 27,000 | 1,600 | 220 | 990 | 5,000 | 110 | |
| MPE-2 | | | | | | | | | | | |
| MPE-2 | 12/1/2009 | 53.72 | 22.87 | - | 30.85 | NA | NA | NA | NA | NA | NA |
| | 3/16/2010 | 53.72 | 21.7 | - | 32.02 | NA | NA | NA | NA | NA | NA |
| | 6/3/2010 | 53.72 | 22.35 | - | 31.37 | NA | NA | NA | NA | NA | NA |
| | 9/1/2010 | 53.72 | 23.7 | - | 30.02 | NA | NA | NA | NA | NA | NA |
| | 12/2/2010 | 53.72 | 22.7 | - | 31.02 | NA | NA | NA | NA | NA | NA |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|--------------------------------------------|----------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MPE-2 cont. Pre-MPE Post-MPE | 3/3/2011 | 53.72 | 21.25 | - | 32.47 | NA | NA | NA | NA | NA | NA |
| | 5/19/2011 | 53.72 | 22.19 | - | 31.53 | NA | NA | NA | NA | NA | NA |
| | 8/4/2011 | 53.72 | NM | - | NC | 46,000 | 2,100 | 80 | 1,900 | 5,300 | 75 |
| | 9/8/2011 | 53.72 | 22.31 | - | 31.41 | NA | NA | NA | NA | NA | NA |
| | 9/26/2011 | 53.72 | 22.38 | N | 31.34 | 37,000 | 1,800 | 33 | 1,700 | 2,760 | <17 |
| | 12/2/2011 | 53.72 | 21.44 | N | 32.28 | 26,000 | 1,600 | 43 | 1,800 | 3,370 | <17 |
| | 3/2/2012 | 53.72 | 22.24 | N | 31.48 | 36,000 | 1,100 | 19 | 1,700 | 2,970 | <17 |
| | 6/7/2012 | 53.72 | 22.35 | N | 31.37 | 33,000 | 1,800 | 27 | 1,600 | 2,700 | 29 |
| | 9/21/2012 | 53.72 | 23.03 | N | 30.69 | 31,000 | 1,700 | 13 | 1,900 | 2,747 | 14 |
| | 12/14/2012 | 53.72 | 22.17 | N | 31.55 | 31,000 | 1,700 | 20 | 1,800 | 2,490 | 16 |
| | 3/28/2013 | 53.72 | 22.53 | N | 31.19 | 20,000 | 2,200 | <20 | 1,300 | 960 | <20 |
| | 6/11/2013 | 53.72 | 22.9 | N | 30.82 | 26,000 | 920 | <13 | 1,500 | 1,352 | <13 |
| | 9/17/2013 | 53.72 | 23.29 | N | 30.43 | 23,000 | 680 | 15 | 1,400 | 1,059 | <13 |
| | 12/5/2013 | 53.72 | 23.73 | 23.61 | 30.07 | FP | FP | FP | FP | FP | FP |
| | 2nd WBZ | | | | | | | | | | |
| MW-1D | 1/3/2008 | 54.42 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 1/22/2008 | 54.42 | 22.85 | - | 31.57 | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 4/16/2008 | 54.42 | 23.10 | - | 31.32 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/3/2008 | 54.42 | 23.44 | - | 30.98 | 75.9 | <0.5 | <2.0 | 0.54 | <2.0 | <0.5 |
| | 10/15/2008 | 54.42 | 23.82 | - | 30.60 | 120 | 1.6 | <0.5 | 2.8 | 3.6 | <0.5 |
| | 1/8/2009 | 54.42 | 23.44 | - | 30.98 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/14/2009 | 54.42 | 23.06 | - | 31.36 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/26/2009 | 54.42 | 23.73 | - | 30.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | 54.42 | 23.59 | - | 30.83 | 330 ^Y | <0.5 | <0.5 | 1.3 | 2.2 | <0.5 |
| | 3/16/2010 | 54.42 | 22.60 | - | 31.82 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/4/2010 | 54.42 | 23.10 | - | 31.32 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/1/2010 | 54.42 | 23.51 | - | 30.91 | <50 | <0.5 | <0.5 | 0.52 | 1.8 | <0.5 |
| | 12/3/2010 | 54.42 | 23.41 | - | 31.01 | 61 | <0.5 | <0.5 | 1.0 | 3.73 | <0.5 |
| | 3/3/2011 | 54.42 | 22.27 | N | 32.15 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/19/2011 | 54.42 | 22.89 | N | 31.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 9/8/2011 | 54.42 | 23.08 | N | 31.34 | 220 | <0.5 | <0.5 | 0.6 | 1.4 | <0.5 | |
| 12/1/2011 | 54.42 | 22.26 | N | 32.16 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | <0.38 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|------------------|------------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|----------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-1D cont. | 3/2/2012 | 54.42 | 23.01 | N | 31.41 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | 54.42 | 23.18 | N | 31.24 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | 54.42 | 23.76 | N | 30.66 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | 54.42 | 23.04 | N | 31.38 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | 54.42 | 23.34 | N | 31.08 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | 54.42 | 23.69 | N | 30.73 | 110 | <0.5 | <0.5 | 0.55 | <0.5 | <0.5 |
| | 9/16/2013 | 54.42 | 24.02 | N | 30.40 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | 54.42 | 24.31 | N | 30.11 | <50 | <0.5 | <0.5 | <0.5 | 1.3 | <0.5 |
| MW-3D | 1/3/2008 | 54.10 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | 87.6 |
| | 1/22/2008 | 54.10 | 22.31 | - | 31.79 | <50 | <0.50 | <2.0 | <0.50 | <2.0 | 88.3 |
| | 4/16/2008 | 54.10 | 22.64 | - | 31.46 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 71.1 |
| | 7/3/2008 | 54.10 | 23.17 | - | 30.93 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 67.4 |
| | 10/16/2008 | 54.10 | 23.62 | - | 30.48 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 37 |
| | 1/8/2009 | 54.10 | 23.07 | - | 31.03 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 29 |
| | 4/14/2009 | 54.10 | 22.36 | - | 31.74 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 44 |
| | 8/26/2009 | 54.10 | 23.41 | - | 30.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 20 |
| | 12/1/2009 | 54.10 | 23.27 | - | 30.83 | 110 Y | <0.5 | <0.5 | <0.5 | 0.52 | 24 |
| | 3/16/2010 | 54.10 | 22.10 | - | 32.00 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 7.1 |
| | 6/4/2010 | 54.10 | 22.70 | - | 31.40 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 17 |
| | 9/1/2010 | 54.10 | 23.09 | - | 31.01 | 78 | <0.5 | <0.5 | 1.1 | 4.71 | 24 |
| | 12/3/2010 | 54.10 | 22.90 | - | 31.20 | <50 | <0.5 | <0.5 | 0.56 | 1.4 | 13 |
| | 3/3/2011 | 54.10 | 21.66 | N | 32.44 | <50 | 1.3 | <0.5 | <0.5 | 0.59 | 14 |
| | 5/19/2011 | 54.10 | 22.61 | N | 31.49 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.2 |
| | 9/8/2011 | 54.10 | 22.68 | N | 31.42 | 69 | <0.5 | <0.5 | <0.5 | 0.62 | 4.8 |
| | 12/1/2011 | 54.10 | 22.86 | N | 31.24 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | 10 |
| | 3/2/2012 | 54.10 | 22.60 | N | 31.50 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.2 |
| | 6/6/2012 | 54.10 | 22.77 | N | 31.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.8 |
| | 9/20/2012 | 54.10 | 23.42 | N | 30.68 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 5.1 |
| 12/13/2012 | 54.10 | 22.57 | N | 31.53 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.4 | |
| 3/27/2013 | 54.10 | 22.87 | N | 31.23 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.4 | |
| 6/10/2013 | 54.10 | 23.27 | N | 30.83 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.5 | |
| 9/16/2013 | 54.10 | 23.65 | N | 30.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | |
| 12/5/2013 | 54.10 | 23.97 | N | 30.13 | <50 | <0.5 | <0.5 | <0.5 | 0.53 | 1.6 | |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-----------------|------------------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|------------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| MW-4D | 1/4/2008 | 53.12 | | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| | 1/22/2008 | 53.12 | 21.11 | - | 32.01 | 91.5 | 18.7 | <2.0 | 7.08 | 11.42 | 219 |
| | 4/15/2008 | 53.12 | 21.67 | - | 31.45 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 27 |
| | 7/3/2008 | 53.12 | 22.39 | - | 30.73 | <50 | <0.5 | <2.0 | <0.5 | <2.0 | 6.27 |
| | 10/16/2008 | 53.12 | 22.98 | - | 30.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.9 |
| | 1/8/2009 | 53.12 | 22.25 | - | 30.87 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2 |
| | 4/14/2009 | 53.12 | 21.34 | - | 31.78 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 |
| | 8/27/2009 | 53.12 | 22.79 | - | 30.33 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.2 |
| | 12/1/2009 | 53.12 | 22.49 | - | 30.63 | 120 ^Y | <0.5 | <0.5 | 1.4 | 2.3 | 2.3 |
| | 3/16/2010 | 53.12 | 21.02 | - | 32.10 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.65 |
| | 6/4/2010 | 53.12 | 21.93 | - | 31.19 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.1 |
| | 9/1/2010 | 53.12 | 23.32 | - | 29.80 | <50 | <0.5 | <0.5 | 0.85 | 3.76 | 2.2 |
| | 12/3/2010 | 53.12 | 22.46 | - | 30.66 | <50 | <0.5 | <0.5 | <0.5 | 0.67 | <0.5 |
| | 3/3/2011 | 53.12 | 20.45 | N | 32.67 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.58 |
| | 5/19/2011 | 53.12 | 21.57 | N | 31.55 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | 53.12 | 21.92 | N | 31.20 | 59 | <0.5 | <0.5 | <0.5 | 0.51 | 1.7 |
| | 12/1/2011 | 53.12 | 21.19 | N | 31.93 | <22 | <0.33 | <0.19 | <0.15 | <0.20 | 4.2 |
| | 3/2/2012 | 53.12 | 21.8 | N | 31.32 | <50 | <0.5 | <0.5 | 0.85 | 1.2 | 2.7 |
| | 6/6/2012 | 53.12 | 22.00 | N | 31.12 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.3 |
| | 9/20/2012 | 53.12 | 22.67 | N | 30.45 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.6 |
| 12/13/2012 | 53.12 | 21.55 | N | 31.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 0.94 | |
| 3/27/2013 | 53.12 | 21.98 | N | 31.14 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 2.1 | |
| 6/10/2013 | 53.12 | 22.55 | N | 30.57 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 1.7 | |
| 9/16/2013 | 53.12 | 23.05 | N | 30.07 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 4.6 | |
| | 12/6/2013 | 53.12 | 23.43 | N | 29.69 | <50 | <0.5 | <0.5 | <0.5 | <0.5 | 3.4 |
| 1573 153 RD | 1/3/2008 | NS | NM | - | NC | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 7/2/2008 | NS | NM | - | NC | <50 | <0.5 | <2.0 | <0.5 | <2.0 | <0.5 |
| | 10/16/2008 | NS | NM | - | NC | <50 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |

Table 1
Historical Groundwater Elevation Data and Analytical Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Casing Elevation ¹ (feet) | Depth to Groundwater (feet) | Free-Product (feet)/ Sheen (Y/N) | Groundwater Elevation (feet) | TPH-g (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethyl-benzene (µg/L) | Total Xylenes (µg/L) | MtBE 8260B ² (µg/L) |
|-------------------------|-----------|--------------------------------------|-----------------------------|----------------------------------|------------------------------|--------------|----------------|----------------|----------------------|----------------------|--------------------------------|
| Equipment Blanks | | | | | | | | | | | |
| EB-PMP | 1/21/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| EB-PRB | 1/21/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| EB-PMP2 | 1/22/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| EB-PRB2 | 1/22/2008 | - | - | - | - | <50 | <0.50 | <2.0 | <0.50 | <2.0 | <0.50 |
| ESL (ug/L) | - | - | - | - | - | 100 | 1 | 40 | 30 | 20 | 5 |

Notes:

The first time SOMA monitored this Site was in May 2002.

*: Due to minimal recharge rates in well MW-2, the groundwater elevation recorded on these dates did not match the overall site conditions, May 2002 & August 2003.

NC: Not Calculated

¹: Top of casing elevations were surveyed to a datum of 67.07 M.S.L by Kier & Wright Civil Engineers & Land Surveyors on May 7, 2002.
On October 11, 2004, the site was re-surveyed by Harrington Surveys, Inc. of Walnut Creek, CA to a datum of California Coordinate System, Zone 3, NAD 83.

² MtBE analyzed by EPA Method 8021B, and confirmed by EPA Method 8260B.

<: Not detected above the laboratory reporting limit.

Y: Sample exhibits chromatographic pattern which does not resemble standard

^c Presence confirmed, but confirmation concentration differed by more than a factor of two.

C: Presence confirmed, but RPD between columns exceeds 40%.

H: Heavier hydrocarbons contributed to the quantitation.

x: Does not match pattern of reference Gasoline Standard. Hydrocarbons in the range of C5-C12 quantified as gasoline (possibly aged gasoline)

NA: Not Analyzed. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well.
Not Analyzed. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

NM: Not Measured. Well MW-8 was inaccessible during the First Quarter 2005, car was parked over well.
Not Measured. Well MW-7 was inaccessible during the First Quarter 2006, car was parked over well.

The first time SOMA monitored wells MW-6 to MW-9 was in September 2004.

EB-PMP/EB-PRB: Equipment Blanks for Pump and Probe

ESL: Environmental Screening Levels per CRWQCB SFBay Region Interim Final Nov. 2007 (Revised May 2008);
Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water resource)

MW-8 and MW-9 were decommissioned November 13, 2009

FP: Groundwater not sampled due to presence of free-product
Groundwater elevation corrected upon presence of FP as follows:
Corrected depth to groundwater is equal to (measured depth)- 0.68(free product thickness)
The correction factor is derived by the following: specific gravity of gas at 20°C is 0.68, then specific gravity is multiplied by the thickness of free product

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| 1st WBZ | | | | | | | |
| MW-1 | 8/8/2002 | 78 | <1.3 | <1.3 | <1.3 | NA | NA |
| | 11/1/2002 | 42 | < 1.0 | < 1.0 | < 1.0 | NA | NA |
| | 2/21/2003 | 47 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/28/2003 | 25 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 8/12/2003 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 10/9/2003 | 70 | <1.0 | <1.0 | <1.0 | NA | NA |
| | 1/15/2004 | 55 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/25/2004 | 62 | <0.7 | <0.7 | <0.7 | NA | NA |
| | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <21.5 | <4.3 | <4.3 | <17.2 | NA | NA |
| | 3/11/2005 | 81 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | 68.9 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 11/11/2005 | 46 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 2/9/2006 | 11.3 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | 0.51 | <0.5 |
| | 8/10/2006 | <43 | <2.15 | <2.15 | <8.60 | 3.37 | <2.15 |
| | 10/26/2006 | 39.4 | <1.0 | <1.0 | <4.0 | 2.92 | <1.0 |
| | 1/25/2007 | 41.4 | <0.5 | <0.5 | <2.0 | 1.36 | <0.5 |
| | 4/26/2007 | 39.6 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | 46.5 | <1.0 | <1.0 | <4.0 | <1.0 | <1.0 |
| | 10/23/2007 | 53.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/22/2008 | 23.8 | <0.5 | <0.5 | <2.16 | <0.5 | <0.5 |
| | 4/16/2008 | 8.36 | <0.5 | <0.5 | <2.0 | 164 | <0.5 |
| | 7/3/2008 | 30.5 | <0.5 | <0.5 | <2.0 | 1.08 | <0.5 |
| | 10/15/2008 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 |
| | 1/7/2009 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 4/14/2009 | 15 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 12/2/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 3/17/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | 26 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/2/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| 12/2/2010 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 | |
| 3/4/2011 | 40 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 5/20/2011 | <71 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 | |
| 9/9/2011 | 33 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | |
| 12/2/2011 | 49 | <3.2 | <3.5 | <3.5 | <2.8 | <1.7 | |
| 3/2/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 6/7/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 9/21/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 12/14/2012 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 3/28/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 6/11/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 9/17/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| 12/6/2013 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | |
| MW-2 | | | | | | | |
| MW-2 | 8/8/2002 | 21 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 11/1/2002 | 15 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 2/21/2003 | 12 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/28/2003 | 31 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 8/12/2003 | 69 | <0.8 | <0.8 | <0.8 | NA | NA |
| | 10/9/2003 | 12 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 1/15/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 5/25/2004 | 14 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| MW-2 cont. | 3/11/2005 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 2.44 | <0.5 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 8/27/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/17/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/2/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/2/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/4/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 5/20/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/9/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/2/2011 | <13 | <3.2 | <3.5 | <2.8 | <2.4 | <1.7 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/7/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/21/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/14/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/28/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6/11/2013 | 150 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 | |
| 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 12/6/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| MW-3 | 8/8/2002 | <330 | <8.3 | <8.3 | 330 | NA | NA |
| | 11/1/2002 | 85 | < 1.3 | <1.3 | 220 | NA | NA |
| | 2/21/2003 | 140 | <5.0 | <5.0 | 320 | NA | NA |
| | 5/28/2003 | 520 | <10 | <10 | 530 | NA | NA |
| | 8/12/2003 | 180 | <4.2 | <4.2 | 270 | NA | NA |
| | 10/9/2003 | <170 | <8.3 | <8.3 | 200 | NA | NA |
| | 1/15/2004 | <100 | <5.0 | <5.0 | 150 | NA | NA |
| | 5/25/2004 | <100 | <5.0 | <5.0 | 270 | NA | NA |
| | 9/21/2004 | <140 | <7.1 | <7.1 | 110 | NA | NA |
| | 12/14/2004 | <100 | <20 | <20 | 154 | NA | NA |
| | 3/11/2005 | <215 | <43 | <43 | 256 | NA | NA |
| | 6/15/2005 | <215 | <10.8 | <10.8 | 374 | NA | NA |
| | 8/26/2005 | 699 | <21.5 | <21.5 | 277 | NA | NA |
| | 11/11/2005 | <430 | <21.5 | <21.5 | 171 | NA | NA |
| | 2/9/2006 | <430 | <21.5 | <21.5 | 620 | NA | NA |
| | 5/9/2006 | 367 | <10.8 | <10.8 | 594 | <10.8 | <10.8 |
| | 8/10/2006 | 365 | <10.8 | <10.8 | 727 | <10.8 | <10.8 |
| | 10/26/2006 | 591 | <10.8 | <10.8 | 899 | <10.8 | <10.8 |
| | 1/25/2007 | 711 | <10.8 | <10.8 | 768 | <10.8 | <10.8 |
| | 4/26/2007 | 690 | <10.8 | <10.8 | 369 | <10.8 | <10.8 |
| | 7/25/2007 | 1,340 | <10.8 | <10.8 | 565 | <10.8 | <10.8 |
| | 10/23/2007 | 1,050 | <21.5 | <21.5 | 301 | <21.5 | <21.5 |
| | 1/22/2008 | 373 | <10.8 | <10.8 | 170 | <0.5 | <0.5 |
| 4/16/2008 | 881 | <5.50 | <5.50 | <22.0 | 1,850 | 12.1 | |
| 7/3/2008 | 426 | <10.8 | <10.8 | 124 | <10.8 | <10.8 | |
| 10/16/2008 | <400 | <20 | <20 | <20 | <20 | <20 | |
| 1/8/2009 | <500 | <25 | <25 | <25 | <25 | <25 | |
| 4/13/2009 | <500 | <25 | <25 | <25 | <25 | <25 | |
| 8/27/2009 | <500 | <25 | <25 | <25 | <25 | <25 | |
| 12/2/2009 | 270 | <13 | <13 | <13 | <13 | <13 | |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| MW-3 cont. | 3/17/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 6/3/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 9/2/2010 | <250 | <13 | <13 | <13 | <13 | <13 |
| | 12/2/2010 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 3/4/2011 | <170 | <8.3 | <8.3 | <8.3 | <8.3 | <8.3 |
| | 5/20/2011 | <130 | <6.3 | <6.3 | <6.3 | <6.3 | <6.3 |
| | 9/9/2011 | <140 | <7.1 | <7.1 | <7.1 | <7.1 | <7.1 |
| | 12/2/2011 | <6.6 | <1.6 | <1.7 | <1.4 | <1.2 | <0.86 |
| | 3/2/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/7/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/21/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 12/14/2012 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 3/28/2013 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 6/11/2013 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 |
| | 9/17/2013 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/6/2013 | <200 | <10 | <10 | <10 | <10 | <10 |
| MW-4 | 8/8/2002 | 1500 | <17 | <17 | 18 | NA | NA |
| | 11/1/2002 | 580 | < 5.0 | 6 | 13 | NA | NA |
| | 2/21/2003 | 1600 | <20 | 22 | <20 | NA | NA |
| | 5/28/2003 | 690 | <8.3 | <8.3 | 17 | NA | NA |
| | 8/12/2003 | 550 | <7.1 | 7.3 | 18 | NA | NA |
| | 10/9/2003 | 1400 | <31 | 50 | <31 | NA | NA |
| | 1/15/2004 | 1,300 | <20 | 25 | 21 | NA | NA |
| | 5/25/2004 | 560 | <8.3 | <8.3 | 24 | NA | NA |
| | 9/21/2004 | 1,300 | <50 | <50 | <50 | NA | NA |
| | 12/14/2004 | 826 | <10.75 | 21 | 49 | NA | NA |
| | 3/11/2005 | 1,110 | <10.8 | 12.1 | <43 | NA | NA |
| | 6/15/2005 | <110 | <5.5 | <5.5 | 22.9 | NA | NA |
| | 8/26/2005 | 902 | <5.50 | <5.50 | 37.4 | NA | NA |
| | 11/11/2005 | 884 | <10.8 | <10.8 | <43 | NA | NA |
| | 2/9/2006 | 769 | <10.8 | 16.4 | 45.6 | NA | NA |
| | 5/9/2006 | 405 | <2.15 | 2.95 | 31.3 | <2.15 | <2.15 |
| | 8/10/2006 | 306 | <2.15 | <2.15 | 35.3 | <2.15 | <2.15 |
| | 10/26/2006 | 3430 | <10.8 | 13.8 | <43 | <10.8 | <10.8 |
| | 1/25/2007 | 822 | <2.15 | 2.4 | 28 | <2.15 | <2.15 |
| | 4/26/2007 | 556 | <2.15 | 2.28 | 29.2 | <2.15 | <2.15 |
| | 7/25/2007 | 1,860 | <2.15 | 9.94 | 24 | <2.15 | <2.15 |
| | 10/23/2007 | 3,400 | <2.15 | 18.4 | 25.9 | <2.15 | <2.15 |
| | 1/22/2008 | 2,580 | <5.50 | 64.7 | <22 | <0.5 | <0.5 |
| | 4/15/2008 | 1,100 | <5.50 | 11.7 | <22 | 39.9 | <5.50 |
| | 7/2/2008 | 8,720 | <5.50 | 75.2 | <22 | <5.50 | <5.50 |
| | 10/16/2008 | 700 | <3.6 | 4.2 | 37 | 5.4 | <3.6 |
| | 1/8/2009 | 1,500 | <3.6 | 9.9 | 41 | 3.6 | <3.6 |
| | 4/13/2009 | 1,100 | <8.3 | <8.3 | 28 | <8.3 | <8.3 |
| | 8/27/2009 | 4,900 | <5.0 | 24 | <5.0 | <5.0 | <5.0 |
| | 12/2/2009 | 6,800 | <5.0 | 69 | <5.0 | <5.0 | <5.0 |
| | 3/17/2010 | 1,900 | <3.6 | 18 | <3.6 | <3.6 | <3.6 |
| | 6/3/2010 | 930 | <3.6 | 7.7 | <3.6 | <3.6 | <3.6 |
| | 9/2/2010 | 7,200 | <3.6 | 57 | <3.6 | <3.6 | <3.6 |
| | 12/2/2010 | 3,800 | <10 | 30 | <10 | <10 | <10 |
| | 3/3/2011 | 410 | <0.71 | 3.2 | <0.71 | <0.71 | <0.71 |
| | 5/19/2011 | 130 | <0.5 | 1.4 | <0.5 | <0.5 | <0.5 |
| 9/8/2011 | 380 | <0.5 | 3.5 | <0.5 | 1.1 | <0.5 | |
| 12/1/2011 | 790 | <1.6 | 5.4 | 8.2 | <1.2 | <0.86 | |
| 3/2/2012 | 920 | <2.0 | 5.9 | 24 | <2.0 | <2.0 | |
| 6/7/2012 | 1,000 | <2.5 | 13 | <2.5 | <2.5 | <2.5 | |
| 9/21/2012 | 1,300 | <2.5 | 14 | <2.5 | <2.5 | <2.5 | |
| 12/14/2012 | 36 | <0.5 | 0.65 | <0.5 | <0.5 | <0.5 | |
| 3/28/2013 | 2,500 | <5.0 | 29 | <5.0 | <5.0 | <5.0 | |
| 6/11/2013 | 890 | <5.0 | 12 | <5.0 | <5.0 | <5.0 | |
| 9/17/2013 | 1,100 | <10 | <10 | <10 | <10 | <10 | |
| 12/6/2013 | 1,500 | <10 | <10 | <10 | <10 | <10 | |
| MW-5 | 8/8/2002 | <250 | <6.3 | <6.3 | 510 | NA | NA |
| | 11/1/2002 | 66 | < 2.0 | < 2.0 | 560 | NA | NA |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| MW-5 cont. | 2/21/2003 | <63 | <3.1 | <3.1 | 280 | NA | NA |
| | 5/28/2003 | <33 | <1.7 | <1.7 | 110 | NA | NA |
| | 8/12/2003 | 130 | <3.6 | <3.6 | 270 | NA | NA |
| | 10/9/2003 | <100 | <5.0 | <5.0 | 740 | NA | NA |
| | 1/15/2004 | <63 | <3.1 | <3.1 | 300 | NA | NA |
| | 5/25/2004 | <100 | <5.0 | <5.0 | 210 | NA | NA |
| | 9/21/2004 | <130 | <6.3 | <6.3 | 550 | NA | NA |
| | 12/14/2004 | 40 | <5.5 | <5.5 | 444 | NA | NA |
| | 3/11/2005 | 88.8 | <5.5 | <5.5 | 448 | NA | NA |
| | 6/15/2005 | <43 | <2.15 | <2.15 | 88.1 | NA | NA |
| | 8/26/2005 | 274 | <5.50 | <5.50 | 195 | NA | NA |
| | 11/11/2005 | 192 | <5.50 | <5.50 | 360 | NA | NA |
| | 2/9/2006 | 218 | <5.50 | <5.50 | 523 | NA | NA |
| | 5/9/2006 | 91.8 | <2.15 | <2.15 | 163 | <2.15 | <2.15 |
| | 8/10/2006 | 138 | <5.50 | <5.50 | 342 | <5.50 | <5.50 |
| | 10/26/2006 | 322 | <5.50 | <5.50 | 712 | <5.50 | <5.50 |
| | 1/25/2007 | 878 | <5.50 | <5.50 | 552 | <5.50 | <5.50 |
| | 4/26/2007 | 708 | <2.15 | <2.15 | 310 | <2.15 | <2.15 |
| | 7/25/2007 | 1,020 | <2.15 | <2.15 | 356 | <2.15 | <2.15 |
| | 10/23/2007 | 1,510 | <2.15 | <2.15 | 181 | <2.15 | <2.15 |
| | 1/22/2008 | 470 | <0.5 | 4.56 | 62.1 | <0.5 | <0.5 |
| | 4/15/2008 | 566 | <1.0 | <1.0 | 29.6 | 231 | 5.66 |
| | 7/3/2008 | 2,320 | <2.15 | <2.15 | 53.3 | <2.15 | <2.15 |
| | 10/16/2008 | 990 | <5.0 | <5.0 | 82 | <5.0 | <5.0 |
| 1/8/2009 | 360 | <6.3 | <6.3 | 51 | <6.3 | <6.3 | |
| 4/13/2009 | 280 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 | |
| 8/27/2009 | 1,300 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| 12/2/2009 | 320 | <5.0 | <5.0 | 25 | <5.0 | <5.0 | |
| 3/17/2010 | 570 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 6/4/2010 | 340 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 9/2/2010 | 320 | <2.5 | <2.5 | 13 | <2.5 | <2.5 | |
| 12/2/2010 | 200 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 | |
| 3/4/2011 | 180 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 5/20/2011 | 480 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 8/4/2011 | 110 | <0.71 | <0.71 | 2.6 | <0.71 | <0.71 | |
| 9/9/2011 | 260 | <1.0 | <1.0 | 11 | <1.0 | <1.0 | |
| 12/2/2011 | 95 | <3.2 | <3.5 | 14 | <2.4 | <1.7 | |
| 3/2/2012 | 59 | <1.0 | <1.0 | 4.1 | <1.0 | <1.0 | |
| 6/7/2012 | 22 | <1.0 | <1.0 | 2.8 | <1.0 | <1.0 | |
| 9/21/2012 | 66 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 12/14/2012 | <20 | <1.0 | <1.0 | 4.2 | <1.0 | <1.0 | |
| 3/28/2013 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| 6/11/2013 | <20 | <1.0 | <1.0 | 2.5 | <1.0 | <1.0 | |
| 9/17/2013 | 20 | <1.0 | <1.0 | 5.7 | <1.0 | <1.0 | |
| 12/6/2013 | <20 | <1.0 | <1.0 | 3.9 | <1.0 | <1.0 | |
| MW-6 | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <5.5 | <5.5 | <5.5 | <22 | NA | NA |
| | 3/11/2005 | 2.54 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 6/15/2005 | <20 | <1.0 | <1.0 | <4.0 | NA | NA |
| | 8/26/2005 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 11/11/2005 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 2/9/2006 | <43 | <2.15 | <2.15 | <8.6 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | 7.21 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | 5.66 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | 6.68 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/21/2008 | 13.9 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | 6.78 | 1.49 |
| | 7/2/2008 | 4.54 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 1/7/2009 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 |
| | 4/13/2009 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 8/26/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 12/1/2009 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| MW-6 cont. | 3/16/2010 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 6/3/2010 | <40 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 |
| | 9/1/2010 | <200 | <10 | <10 | <10 | <10 | <10 |
| | 12/2/2010 | <330 | <17 | <17 | <17 | <17 | <17 |
| | 3/3/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 5/20/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/8/2011 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 12/1/2011 | NA | NA | NA | NA | NA | NA |
| | 3/2/2012 | <83 | <4.2 | <4.2 | <4.2 | <4.2 | <4.2 |
| | 6/6/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 |
| | 9/20/2012 | NA | NA | NA | NA | NA | NA |
| | 12/13/2012 | 29 | <0.71 | <0.71 | <0.71 | <0.71 | <0.71 |
| | 3/27/2013 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 |
| | 6/10/2013 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| | 9/16/2013 | FP | FP | FP | FP | FP | FP |
| | 12/5/2013 | 270 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 |
| MW-7 | 9/21/2004 | <10 | <0.5 | <0.5 | 1.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | <12.5 | <2.5 | <2.5 | <10 | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | 2.23 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | NA | NA | NA | NA | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/23/2007 | 6.49 | <0.5 | <0.5 | 2.58 | <0.5 | <0.5 |
| | 1/21/2008 | <2.0 | <0.5 | <0.5 | 6.01 | <0.5 | <0.5 |
| | 4/15/2008 | 8.8 | <0.5 | <0.5 | <2.0 | <0.5 | 1.26 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/15/2008 | <10 | <0.5 | <0.5 | 14 | <0.5 | <0.5 |
| | 1/7/2009 | <10 | <0.5 | <0.5 | 11 | <0.5 | <0.5 |
| | 4/13/2009 | <10 | <0.5 | <0.5 | 16 | <0.5 | <0.5 |
| | 8/26/2009 | <33 | <0.5 | <0.5 | 33 | <0.5 | <0.5 |
| | 12/1/2009 | <10 | <0.5 | <0.5 | 30 | <0.5 | <0.5 |
| | 3/16/2010 | 11 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/3/2010 | 20 | <0.5 | <0.5 | 7.1 | <0.5 | <0.5 |
| | 9/1/2010 | 47 | <0.5 | <0.5 | 7.2 | <0.5 | <0.5 |
| | 12/2/2010 | 22 | <0.5 | <0.5 | 4.9 | <0.5 | <0.5 |
| | 3/4/2011 | 14 | <0.5 | <0.5 | 4.0 | <0.5 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | 2.1 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 |
| | 12/1/2011 | 15 | <0.36 | <0.40 | 2.4 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | 0.82 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 12/5/2013 | <10 | <0.5 | <0.5 | 0.73 | <0.5 | <0.5 | |
| MW-8 | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| | 12/14/2004 | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 3/11/2005 | NA | NA | NA | NA | NA | NA |
| | 6/15/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 8/26/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 11/11/2005 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 2/9/2006 | <10 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 5/9/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 8/10/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/26/2006 | <10 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | |
|---------------------------------------|---------------------------------------|------------|-------------|-------------|-------------|----------------|------------|----|
| MW-8 cont. | 1/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 4/26/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 7/25/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 10/23/2007 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 4/15/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 1/7/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 4/13/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 8/27/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | Well Decommissioned 11/13/2009 | | | | | | | |
| | MW-9 | 9/21/2004 | <10 | <0.5 | <0.5 | <0.5 | NA | NA |
| 12/14/2004 | | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 3/11/2005 | | <2.5 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 6/15/2005 | | <10 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 8/26/2005 | | <10 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 11/11/2005 | | <10 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 2/9/2006 | | <10 | <0.5 | <0.5 | <2.0 | NA | NA | |
| 5/9/2006 | | <10 | <0.5 | <0.5 | <2.0 | 2.8 | <0.5 | |
| 8/10/2006 | | <10 | <0.5 | <0.5 | <2.0 | 1.83 | <0.5 | |
| 10/26/2006 | | <10 | <0.5 | <0.5 | <2.0 | 3.07 | <0.5 | |
| 1/25/2007 | | <2.0 | <0.5 | <0.5 | <2.0 | 2.92 | <0.5 | |
| 4/26/2007 | | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| 7/25/2007 | | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| 10/23/2007 | | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| 1/21/2008 | | <2.0 | <0.5 | <0.5 | <2.0 | 1.18 | <0.5 | |
| 4/15/2008 | | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| 7/2/2008 | | <2.0 | <0.5 | <0.5 | <2.0 | 2.07 | <0.5 | |
| 10/15/2008 | | <10 | <0.5 | <0.5 | <0.5 | 1.5 | <0.5 | |
| 1/7/2009 | | <10 | <0.5 | <0.5 | <0.5 | 1.4 | <0.5 | |
| 4/13/2009 | | <10 | <0.5 | <0.5 | <0.5 | 0.97 | <0.5 | |
| 8/26/2009 | <10 | <0.5 | <0.5 | <0.5 | 2.6 | <0.5 | | |
| Well Decommissioned 11/13/2009 | | | | | | | | |
| EX-1 | 12/2/2009 | 150 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | |
| | 3/16/2010 | 980 | <1.3 | 2.4 | 27 | <1.3 | <1.3 | |
| | 6/3/2010 | 570 | <1.3 | 1.9 | <1.3 | <1.3 | <1.3 | |
| | 9/1/2010 | 470 | <0.5 | 1.4 | 2 | <0.5 | <0.5 | |
| | 12/2/2010 | 1,300 | <2.0 | 3.6 | 15 | <2.0 | <2.0 | |
| | 3/3/2011 | 690 | <0.71 | 2.5 | 12 | <0.71 | <0.71 | |
| | 5/19/2011 | 370 | <0.71 | 1.9 | 13 | <0.71 | <0.71 | |
| | 9/8/2011 | 32 | <0.5 | <0.5 | 0.53 | <0.5 | <0.5 | |
| | 12/1/2011 | 1,200 | <1.6 | 8.3 | 6.8 | <1.2 | <0.86 | |
| | 3/2/2012 | 31 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 6/6/2012 | 390 | <0.5 | 2.9 | 4.8 | 0.57 | <0.5 | |
| | 9/20/2012 | 170 | <0.5 | 1.5 | <0.5 | <0.5 | <0.5 | |
| | 12/13/2012 | 210 | <0.5 | 2.7 | 5.2 | <0.5 | <0.5 | |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 6/10/2013 | 280 | <0.5 | 4.0 | 1.6 | <0.5 | <0.5 | |
| | 9/16/2013 | 450 | <0.5 | 2.4 | 1.9 | <0.5 | <0.5 | |
| | 12/5/2013 | 230 | <0.5 | 1.7 | 5.5 | <0.5 | <0.5 | |
| EX-2 | 12/2/2009 | <63 | <3.1 | <3.1 | <3.1 | <3.1 | <3.1 | |
| | 3/16/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 6/3/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 9/1/2010 | <50 | <2.5 | <2.5 | <2.5 | <2.5 | <2.5 | |
| | 12/2/2010 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 3/3/2011 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 5/19/2011 | <100 | <5.0 | <5.0 | <5.0 | <5.0 | <5.0 | |
| | 9/8/2011 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | |
| | 12/1/2011 | 74 | <3.2 | <3.5 | <2.8 | <2.4 | <1.7 | |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) | |
|-----------------|------------------|------------|-------------|-------------|-------------|----------------|------------|-----|
| EX-2 cont. | 3/2/2012 | <25 | <1.3 | <1.3 | <1.3 | <1.3 | <1.3 | |
| | 6/6/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | |
| | 9/20/2012 | <33 | <1.7 | <1.7 | <1.7 | <1.7 | <1.7 | |
| | 12/13/2012 | <71 | <3.6 | <3.6 | <3.6 | <3.6 | <3.6 | |
| | 3/27/2013 | <20 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 6/10/2013 | 32 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | |
| | 9/20/2013 | <20 | <1.0 | <1.0 | <1.0 | 1.4 | <1.0 | |
| | 12/5/2013 | 30 | <1.0 | <1.0 | <1.0 | 1.2 | <1.0 | |
| | MPE Wells | | | | | | | |
| MPE-1 | 8/4/2011 | <500 | <25 | <25 | <25 | <25 | <25 | |
| | 9/26/2011 | <500 | <25 | <25 | 600 | <25 | <25 | |
| | 12/2/2011 | 830 | <32 | <35 | 750 | <24 | <17 | |
| | 3/2/2012 | <710 | <36 | <36 | 1,200 | <36 | <36 | |
| | 6/6/2012 | <630 | <31 | <31 | 430 | <31 | <31 | |
| | 9/20/2012 | <1,300 | <63 | <63 | 1,200 | <63 | <63 | |
| | 12/14/2012 | <1,300 | <63 | <63 | 940 | <63 | <63 | |
| | 3/27/2013 | <710 | <36 | <36 | 890 | <36 | <36 | |
| | 6/10/2013 | 660 | <13 | <13 | 380 | <13 | <13 | |
| | 9/17/2013 | 1,400 | <13 | <13 | <13 | <13 | <13 | |
| | 12/6/2013 | 1,500 | <20 | <20 | 30 | <20 | <20 | |
| | MPE-2 | | | | | | | |
| | MPE-2 | 8/4/2011 | <330 | <17 | <17 | <17 | <17 | <17 |
| 9/26/2011 | | <330 | <17 | <17 | <17 | <17 | <17 | |
| 12/2/2011 | | <66 | <16 | <17 | <14 | <12 | <8.6 | |
| 3/2/2012 | | <330 | <17 | <17 | <17 | <17 | <17 | |
| 6/7/2012 | | <250 | <13 | <13 | <13 | <13 | <13 | |
| 9/21/2012 | | <250 | <13 | <13 | <13 | <13 | <13 | |
| 12/14/2012 | | <250 | <13 | <13 | <13 | <13 | <13 | |
| 3/28/2013 | | <400 | <20 | <20 | <20 | <20 | <20 | |
| 6/11/2013 | | <250 | <13 | <13 | <13 | <13 | <13 | |
| 9/17/2013 | | <250 | <13 | <13 | <13 | <13 | <13 | |
| 12/5/2013 | | FP | FP | FP | FP | FP | FP | |
| 2nd WBZ | | | | | | | | |
| MW-1D | | 1/3/2008 | 111 | <0.5 | <0.5 | <2.0 | NA | NA |
| | 1/22/2008 | 12.9 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 4/16/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 7/3/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 10/15/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 1/8/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 4/14/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 8/26/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 12/1/2009 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 3/16/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 6/4/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 9/1/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 12/3/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 3/3/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 5/19/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 9/8/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 12/1/2011 | <1.5 | <0.36 | <0.40 | <0.32 | <0.28 | <0.19 | |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| | 12/5/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| MW-3D | | | | | | | | |
| MW-3D | 1/3/2008 | 37.3 | <0.5 | 3.12 | 15.3 | NA | NA | |
| | 1/22/2008 | 15.6 | <0.5 | 3.1 | 15.3 | <0.5 | <0.5 | |
| | 4/16/2008 | 17.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 | |
| | 7/3/2008 | <2.0 | <0.5 | <0.5 | 7.45 | <0.5 | <0.5 | |
| | 10/16/2008 | <10 | <0.5 | <0.5 | 4.7 | <0.5 | <0.5 | |
| | 1/8/2009 | <10 | <0.5 | <0.5 | 3.4 | <0.5 | <0.5 | |
| | 4/14/2009 | <10 | <0.5 | <0.5 | 5 | <0.5 | <0.5 | |
| | 8/26/2009 | <10 | <0.5 | <0.5 | 1.6 | <0.5 | <0.5 | |
| | 12/1/2009 | <10 | <0.5 | <0.5 | 2.2 | <0.5 | <0.5 | |

Table 2
Historical Gasoline Oxygenates Results
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | TBA (µg/L) | DIPE (µg/L) | ETBE (µg/L) | TAME (µg/L) | 1,2-DCA (µg/L) | EDB (µg/L) |
|-----------------|------------|------------|-------------|-------------|-------------|----------------|------------|
| MW-3D cont. | 3/16/2010 | <10 | <0.5 | <0.5 | <0.5 | 0.65 | <0.5 |
| | 6/4/2010 | <10 | <0.5 | <0.5 | <0.5 | 1.8 | <0.5 |
| | 9/1/2010 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/3/2010 | <10 | <0.5 | <0.5 | <0.5 | 0.93 | <0.5 |
| | 3/3/2011 | <10 | <0.5 | <0.5 | <0.5 | 1.0 | <0.5 |
| | 5/19/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/8/2011 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/1/2011 | <1.5 | <0.36 | <0.40 | 0.52 | <0.28 | <0.19 |
| | 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | 12/5/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| | MW-4D | 1/4/2008 | 25 | <0.5 | <0.5 | <2.0 | NA |
| 1/22/2008 | | 124 | <0.5 | <0.5 | 3.32 | <0.5 | <0.5 |
| 4/15/2008 | | 25.7 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| 7/3/2008 | | 3.38 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| 10/16/2008 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 1/8/2009 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 4/14/2009 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 8/27/2009 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 12/1/2009 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 3/16/2010 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 6/4/2010 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 9/1/2010 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 12/3/2010 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 3/3/2011 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 5/19/2011 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 9/8/2011 | | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| 12/1/2011 | | <1.5 | <0.36 | <0.40 | <0.32 | <0.28 | <0.19 |
| 3/2/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 6/6/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 9/20/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 12/13/2012 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 3/27/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 6/10/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 9/16/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 12/6/2013 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 | |
| 1573 153 RD | 1/3/2008 | 21 | <0.5 | <0.5 | <2.0 | <0.5 | <2.0 |
| | 7/2/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| | 10/16/2008 | <10 | <0.5 | <0.5 | <0.5 | <0.5 | <0.5 |
| EB-PMP | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| EB-PRB | 1/21/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| EB-PMP2 | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| EB-PRB2 | 1/22/2008 | <2.0 | <0.5 | <0.5 | <2.0 | <0.5 | <0.5 |
| ESL | | 12 | NE | NE | NE | 0.5 | 0.05 |

Notes:
August 8, 2002 was the first time that samples were analyzed for Gasoline Oxygenates
<: Not detected above the laboratory reporting limit.
NA: Not Analyzed. Well MW-8 was inaccessible during the 1Q05 & well MW-7 (1Q06) car was parked over each well.
NE: Not Established
TBA: tert-Butyl Alcohol
DIPE: Isopropyl Ether
ETBE: Ethyl tert-Butyl Ether
TAME: Methyl tert-Amyl Ether
ESL: Environmental Screening Levels per CRWQCB SFBay Region Interim Final Nov. 2007 (Revised May 2008);
Table F-1a, Groundwater Screening Levels (groundwater is a current or potential drinking water resource)
MW-8 and MW-9 were decommissioned November 13, 2009
FP: Groundwater not sampled due to presence of free-product in MW-6

Table 3
Effluent Chemical Analytical Results
and Operational History of Remediation System
15101 Freedom Ave, San Leandro, CA

| Date | Volume (gallons) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-mo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | COD (mg/L) | TSS (mg/L) | pH |
|-------------|------------------|-----------------------|------------------|---------------|----------------|----------------|---------------------|----------------------|------------|------------|-----|
| 2009 | | | | | | | | | | | |
| 8-Oct-2009 | 15,351 | <50 | 120 ^Y | NA | NA | NA | NA | NA | NA | NA | NA |
| 19-Nov-2009 | 8,287 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.7 |
| 9-Dec-2009 | 0 | Installation of GWETS | | | | | | | | | |
| 16-Dec-2009 | 20,000 | <50 | <50 | <300 | <0.5 | 0.65 C | <0.5 | 0.84 C | <10 | <5 | 7.4 |
| 2010 | | | | | | | | | | | |
| 18-Jan-2010 | 215,453 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.4 |
| 15-Feb-2010 | 297,560 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | 11 | <5 | 6.7 |
| 15-Mar-2010 | 475,245 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5.0 | 6.5 |
| 19-Apr-2010 | 621,180 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 8 | 6.6 |
| 17-May-2010 | 705,770 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 8 | 6.7 |
| 16-Jun-2010 | 825,200 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | 17 | 9 | 6.8 |
| 19-Jul-2010 | 910,652 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 8 | 6.6 |
| 16-Aug-2010 | 939,935 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 6 | 6.6 |
| 28-Sep-2010 | 970,450 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 10 | 6.8 |
| 26-Oct-2010 | 1,013,700 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.2 |
| 15-Nov-2010 | 1,052,591 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.5 |
| 7-Dec-2010 | 1,100,492 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 6 | 6.6 |
| 2011 | | | | | | | | | | | |
| 11-Jan-2011 | 1,179,075 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | 12 | 6 | 6.6 |
| 10-Feb-2011 | 1,249,569 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.6 |
| 14-Mar-2011 | 1,336,784 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.5 |
| 11-Apr-2011 | 1,364,272 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 6 | 6.5 |
| 10-May-2011 | 1,466,472 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | 12 | 7 | 6.6 |
| 7-Jun-2011 | 1,532,263 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 6 | 6.6 |

Table 3
Effluent Chemical Analytical Results
and Operational History of Remediation System
15101 Freedom Ave, San Leandro, CA

| Date | Volume (gallons) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-mo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | COD (mg/L) | TSS (mg/L) | pH |
|-------------|------------------|--------------|--------------|---------------|----------------|----------------|---------------------|----------------------|------------|------------|------|
| 28-Jul-2011 | 1,573,295 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 5 | 6.3 |
| 25-Aug-2011 | 1,613,935 | 77 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.1 |
| 23-Sep-2011 | 1,631,273 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.7 |
| 27-Oct-2011 | 1,642,277 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 7 | 7.1 |
| 18-Nov-2011 | 1,676,170 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.8 |
| 1-Dec-2011 | 1,694,889 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.97 |
| 2012 | | | | | | | | | | | |
| 19-Jan-2012 | 1,715,163 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 7.02 |
| 23-Feb-2012 | 1,794,185 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | <5 | 6.98 |
| 20-Mar-2012 | 1,803,832 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | <10 | 7 | 7.02 |
| 17-Apr-2012 | 1,876,439 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.95 |
| 29-May-2012 | 1,900,111 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.89 |
| 11-Jun-2012 | 1,914,130 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.1 |
| 12-Jul-2012 | 1,943,456 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.3 |
| 17-Aug-2012 | 1,955,438 | <50 | <52 | <310 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.04 |
| 17-Sep-2012 | 1,979,852 | <50 | <54 | <330 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.02 |
| 23-Oct-2012 | 1,989,022 | <50 | <49 | <290 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.95 |
| 12-Nov-2012 | 1,995,170 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.90 |
| 4-Dec-2012 | 2,024,040 | <50 | <49 | <290 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.86 |
| 2013 | | | | | | | | | | | |
| 7-Jan-2013 | 2,099,002 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.01 |
| 14-Feb-2013 | 2,186,595 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 7.08 |
| 14-Mar-2013 | 2,193,121 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.98 |
| 12-Apr-2013 | 2,198,793 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.83 |
| 10-Jun-2013 | 2,273,686 | <50 | <58 | <350 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.91 |

Table 3
Effluent Chemical Analytical Results
and Operational History of Remediation System
 15101 Freedom Ave, San Leandro, CA

| Date | Volume (gallons) | TPH-g (µg/L) | TPH-d (µg/L) | TPH-mo (µg/L) | Benzene (µg/L) | Toluene (µg/L) | Ethylbenzene (µg/L) | Total Xylenes (µg/L) | COD (mg/L) | TSS (mg/L) | pH |
|-------------------|------------------|---------------|---------------|----------------|----------------|----------------|---------------------|----------------------|------------|------------|-------------|
| 5-Jul-2013 | 2,282,444 | <50 | <49 | <290 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.87 |
| 15-Aug-2013 | 2,403,250 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.64 |
| 24-Sep-2013 | 2,449,583 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.59 |
| 28-Oct-2013 | 2,551,538 | <50 | <50 | <300 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.71 |
| 14-Nov-2013 | 2,665,016 | <50 | <49 | <290 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.53 |
| 6-Dec-2013 | 2,770,675 | <50 | <49 | <290 | <0.5 | <0.5 | <0.5 | <0.5 | NA | NA | 6.44 |

Note:

NA: Not Available/Not Applicable

< : Less than Laboratory-reporting limit

In October and November 2009 discharge occurred only during MPE events
 GWETS and totalizer installed in December 2009.

Week # 1 sampling conducted on Oct 8, 2009

C: Presence confirmed, but RPD between column exceeds 40%

Volume discharged during the October 2009 MPE event was 18,669 gallons

Volume discharged during the November 2009 MPE event was 10,507 gallons

Volume discharged during the December 2009 MPE event was 20,298 gallons

Volume discharged during the February 2010 MPE event was 6,339 gallons

Volume discharged during the March 2010 MPE event was 3,810 gallons

Volume discharged during the June 2010 MPE event was 15,600 gallons

Volume discharged during the August 2010 MPE event was 1,421 gallons

Volume discharged during the October 2010 MPE event was 13,282 gallons

SOMA ceased COD and TSS testing based on a request from OLSA dated April 5, 2012

Table 4
Cumulative Masses of Petroleum Hydrocarbons Removed from
the Groundwater Since Installation of the Treatment System

15101 Freedom Ave, San Leandro, CA

| Date | Volume (gallons) | Influent Concentration (µg/L) | | | | | Mass removed (pounds) | | | | |
|--------------------|---------------------|---------------------------------------------------------------------------------|-----------|-----------|-------------------|------------------|-----------------------|-------------|-------------|-------------------|------------------|
| | | TPH-g | Benzene | Toluene | Ethyl- benzene | Total Xylenes | TPH-g | Benzene | Toluene | Ethyl- benzene | Total Xylenes |
| 2009 | | | | | | | | | | | |
| 9-Dec-2009 | 0 | Installation of GWETS, began discharging treated groundwater to site sewer main | | | | | | | | | |
| 2010 | | | | | | | | | | | |
| 18-Jan-2010 | 215,453 | 1,900 | 79 | 32.00 | 2.4 | 260 | 3.41 | 0.14 | 0.06 | 0.00 | 0.47 |
| 19-Apr-2010 | 621,180 | 2,100 | 75 | 28 | 56 | 332 | 10.50 | 0.40 | 0.15 | 0.19 | 1.59 |
| 19-Jul-2010 | 910,652 | 56 ^Y | <0.5 | <0.5 | <0.5 | <0.5 | 10.64 | 0.40 | 0.15 | 0.19 | 1.59 |
| 26-Oct-2010 | 1,013,700 | 2,600 | 200 | 25 | 68 | 405 | 12.87 | 0.57 | 0.17 | 0.25 | 1.94 |
| 2011 | | | | | | | | | | | |
| 11-Jan-2011 | 1,179,075 | 1,700 | 80 | 19 | 50 | 295 | 15.21 | 0.68 | 0.20 | 0.32 | 2.34 |
| 11-Apr-2011 | 1,364,272 | 1,200 | 41 | 3.3 | 23 | 185 | 17.06 | 0.75 | 0.20 | 0.36 | 2.63 |
| 28-Jul-2011 | 1,573,295 | 540 | 21 | 2.8 | 5.4 | 49 | 18.00 | 0.78 | 0.21 | 0.37 | 2.71 |
| 27-Oct-2011 | 1,642,277 | <50 | 1.50 | <0.5 | <0.5 | 2.9 | 18.00 | 0.78 | 0.21 | 0.37 | 2.71 |
| 2012 | | | | | | | | | | | |
| 19-Jan-2012 | 1,715,163 | 110 ^Y | <0.5 | <0.5 | <0.5 | <0.5 | 18.07 | 0.78 | 0.21 | 0.37 | 2.71 |
| 17-Apr-2012 | 1,876,439 | 1,100 | 60 | 6.8 | 24 | 161 | 19.54 | 0.87 | 0.22 | 0.40 | 2.93 |
| 12-Jul-2012 | 1,943,456 | 320 | 30 | 1.6 | 15 | 34 | 19.72 | 0.88 | 0.22 | 0.41 | 2.95 |
| 23-Oct-2012 | 1,989,022 | 1,400 ^Y | 130 | 12 | 42 | 153 | 20.25 | 0.93 | 0.22 | 0.42 | 3.01 |
| 2013 | | | | | | | | | | | |
| 7-Jan-2013 | 2,099,002 | 1,500 | 66 | 9.8 | 37 | 228 | 21.63 | 0.99 | 0.23 | 0.46 | 3.22 |
| 12-Apr-2013 | 2,198,793 | 1,600 | 110 | 3.8 | 64 | 131 | 22.96 | 1.08 | 0.24 | 0.51 | 3.32 |
| 5-Jul-2013 | 2,282,444 | 680 | 71 | 1.8 | 22 | 33.9 | 23.43 | 1.13 | 0.24 | 0.52 | 3.35 |
| 28-Oct-2013 | 2,551,538 | 4,900 | 88 | 49 | 150 | 583 | 34.41 | 1.33 | 0.35 | 0.86 | 4.65 |

Notes:

< : Below laboratory-reporting limit

Y : sample exhibits chromatographic pattern which does not resemble standard

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS | | |
|------------|------------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------------------------------------------|--|--------------------------------|
| 10/15/2013 | 1130 | | | | | | | | 0 | begin extraction from MPE-1, MPE-2, and MW-6 | | |
| | 1200 | 1,030 | 13.7 | 1498 | 149 | 149 | 0 | 20 | | | | |
| | 1230 | 1,011 | 13.7 | 1499 | 149 | 149 | 0 | 20 | | | | |
| | 1300 | 989 | 13.7 | 1501 | 149 | 149 | 0 | 20 | | | | |
| | 1330 | 956 | 13.7 | 1498 | 149 | 149 | 0 | 20 | | | | |
| | 1400 | 928 | 13.6 | 1500 | 149 | 149 | 0 | 20 | | | | |
| | 1430 | 907 | 13.6 | 1497 | 150 | 150 | 0 | 19.9 | | | | |
| | 1500 | 885 | 13.6 | 1501 | 150 | 150 | 0 | 19.9 | | | | |
| | 1600 | 852 | 13.6 | 1498 | 150 | 150 | 0 | 19.9 | | | | |
| | 1700 | 823 | 13.7 | 1499 | 149 | 149 | 0 | 20 | | | | |
| | 1800 | 796 | 13.7 | 1501 | 149 | 149 | 0 | 20 | | | | |
| | 10/16/2013 | 800 | 738 | 13.7 | 1500 | 149 | 149 | 0 | 20 | | | Extracting from MPE-1 and MW-6 |
| | | 900 | 706 | 13.6 | 1498 | 149 | 149 | 0 | 20 | | | |
| | | 1000 | 697 | 13.7 | 1501 | 149 | 149 | 0 | 20 | | | |
| | | 1100 | 671 | 13.7 | 1499 | 149 | 149 | 0 | 20 | | | |
| | | 1200 | 783 | 9.5 | 1498 | 192 | 192 | 0 | 17.3 | | | |
| | | 1300 | 751 | 9.5 | 1500 | 193 | 193 | 0 | 17.2 | | | |
| 1400 | | 740 | 9.4 | 1501 | 193 | 193 | 0 | 17.2 | | | | |
| 1500 | | 731 | 9.4 | 1498 | 193 | 193 | 0 | 17.2 | | | | |
| 1600 | | 706 | 9.5 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| 1700 | | 681 | 9.5 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| 10/17/2013 | 800 | 547 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | Extracting from MPE-1, MPE-2, and MW-6 | | |
| | 900 | 539 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1000 | 530 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1100 | 559 | 9.7 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1200 | 551 | 9.7 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1300 | 558 | 9.7 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1400 | 554 | 9.7 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1500 | 549 | 9.7 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1600 | 545 | 9.7 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1700 | 544 | 9.7 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 10/18/2013 | 800 | 595 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | 15,972 | | | |
| | 900 | 594 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1000 | 592 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1100 | 588 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1200 | 581 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| | 1300 | 568 | 9.7 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1400 | 577 | 9.7 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1500 | 582 | 9.7 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1600 | 571 | 9.7 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| | 1700 | 560 | 9.7 | 1500 | 192 | 192 | 0 | 17.3 | | | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS |
|------------|------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|
| 10/19/2013 | 800 | 542 | 10 | 1500 | 158 | 158 | 0 | 19.4 | 28,239 | |
| | 1000 | 549 | 10 | 1499 | 165 | 165 | 0 | 19 | | |
| | 1130 | 656 | 10 | 1500 | 196 | 196 | 0 | 17 | | |
| | 1400 | 650 | 9.4 | 1501 | 193 | 193 | 0 | 17.2 | | |
| 10/20/2013 | 1600 | 672 | 9.6 | 1503 | 193 | 193 | 0 | 17.2 | 33,593 | |
| | 800 | 609 | 9.6 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 621 | 9.6 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 647 | 10.1 | 1499 | 189 | 189 | 0 | 17.5 | | |
| | 1100 | 653 | 10 | 1500 | 189 | 189 | 0 | 17.5 | | |
| | 1200 | 659 | 10 | 1498 | 189 | 189 | 0 | 17.5 | | |
| | 1300 | 655 | 10 | 1501 | 189 | 189 | 0 | 17.5 | | |
| | 1400 | 688 | 9.9 | 1500 | 190 | 190 | 0 | 17.4 | | |
| | 1500 | 703 | 10 | 1498 | 190 | 190 | 0 | 17.4 | | |
| | 1600 | 694 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| 10/21/2013 | 1700 | 687 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | 39,158 | |
| | 800 | 650 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 655 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 489 | 10.2 | 1498 | 157 | 157 | 0 | 19.5 | | |
| | 1100 | 483 | 10.2 | 1501 | 157 | 157 | 0 | 19.5 | | |
| | 1200 | 478 | 10.2 | 1499 | 157 | 157 | 0 | 19.5 | | |
| | 1300 | 497 | 10.2 | 1501 | 157 | 157 | 0 | 19.5 | | |
| | 1400 | 721 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1500 | 704 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 1600 | 873 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | |
| 10/22/2013 | 1700 | 895 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | 46,005 | |
| | 800 | 1,091 | 10.4 | 1502 | 182 | 182 | 0 | 17.9 | | |
| | 900 | 1,069 | 10.4 | 1500 | 182 | 182 | 0 | 17.9 | | |
| | 1000 | 1,007 | 10.3 | 1502 | 184 | 184 | 0 | 17.8 | | |
| | 1100 | 935 | 9.9 | 1502 | 184 | 184 | 0 | 17.8 | | |
| | 1200 | 901 | 9.9 | 1500 | 184 | 184 | 0 | 17.8 | | |
| | 1300 | 845 | 9.8 | 1498 | 193 | 193 | 0 | 17.2 | | |
| | 1400 | 826 | 9.8 | 1502 | 193 | 193 | 0 | 17.2 | | |
| | 1500 | 798 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1600 | 753 | 9.7 | 1501 | 193 | 193 | 0 | 17.2 | | |
| 10/23/2013 | 1700 | 724 | 9.7 | 1500 | 193 | 193 | 0 | 17.2 | 53,059 | |
| | 800 | 598 | 10.2 | 1500 | 189 | 189 | 0 | 17.5 | | |
| | 900 | 586 | 10.2 | 1499 | 189 | 189 | 0 | 17.5 | | |
| | 1000 | 571 | 10.2 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1100 | 574 | 10.2 | 1498 | 192 | 192 | 0 | 17.3 | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS | | | |
|------------|------------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|------|--------|--|
| 10/24/2013 | 1200 | 577 | 10.2 | 1502 | 192 | 192 | 0 | 17.3 | 59,974 | | | | |
| | 1300 | 570 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1400 | 562 | 9.9 | 1501 | 193 | 193 | 0 | 17.2 | | | | | |
| | 1500 | 557 | 9.9 | 1499 | 193 | 193 | 0 | 17.2 | | | | | |
| | 1600 | 554 | 9.9 | 1500 | 193 | 193 | 0 | 17.2 | | | | | |
| | 1700 | 548 | 9.9 | 1500 | 193 | 193 | 0 | 17.2 | | | | | |
| | 800 | 494 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 900 | 489 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1000 | 485 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1100 | 472 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1200 | 474 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1300 | 470 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1400 | 467 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1500 | 472 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| 10/25/2013 | 1600 | 465 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | 66,953 | | | | |
| | 1700 | 461 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| | 800 | 435 | 10 | 1500 | 189 | 189 | 0 | 17.5 | | | | | |
| | 900 | 429 | 10 | 1501 | 189 | 189 | 0 | 17.5 | | | | | |
| | 1000 | 420 | 10 | 1499 | 189 | 189 | 0 | 17.5 | | | | | |
| | 1100 | 428 | 10 | 1502 | 189 | 189 | 0 | 17.5 | | | | | |
| | 1200 | 425 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | | | | |
| | 1300 | 427 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1400 | 432 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1500 | 429 | 10 | 1501 | 193 | 193 | 0 | 17.2 | | | | | |
| | 1600 | 418 | 10 | 1500 | 193 | 193 | 0 | 17.2 | | | | | |
| | 1700 | 417 | 10 | 1501 | 193 | 193 | 0 | 17.2 | | | | | |
| | 10/26/2013 | 800 | 407 | 10 | 1500 | 193 | 193 | 0 | | | 17.2 | 73,499 | |
| | | 900 | 414 | 10 | 1500 | 193 | 193 | 0 | | | 17.2 | | |
| 1000 | | 406 | 10 | 1502 | 193 | 193 | 0 | 17.2 | | | | | |
| 1100 | | 401 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| 1200 | | 395 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| 1300 | | 403 | 10 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| 1400 | | 401 | 10 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| 1500 | | 402 | 10 | 1500 | 193 | 193 | 0 | 17.2 | | | | | |
| 1600 | | 399 | 10 | 1502 | 193 | 193 | 0 | 17.2 | | | | | |
| 1700 | | 395 | 10 | 1500 | 193 | 193 | 0 | 17.2 | | | | | |
| 10/27/2013 | | 800 | 374 | 10 | 1501 | 192 | 192 | 0 | 17.3 | 80,628 | | | |
| | | 900 | 367 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS |
|------------|------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|
| 10/28/2013 | 1000 | 364 | 10 | 1500 | 192 | 192 | 0 | 17.3 | 87,685 | |
| | 1100 | 368 | 10 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 364 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 371 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1400 | 368 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1500 | 367 | 10 | 1502 | 192 | 192 | 0 | 17.3 | | |
| | 1600 | 368 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1700 | 365 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 800 | 358 | 10 | 1502 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 355 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 351 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1100 | 347 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 342 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 350 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| 10/29/2013 | 1400 | 347 | 10 | 1499 | 192 | 192 | 0 | 17.3 | 94,519 | |
| | 1500 | 354 | 9.9 | 1501 | 193 | 193 | 0 | 17.2 | | |
| | 1600 | 346 | 9.9 | 1498 | 193 | 193 | 0 | 17.2 | | |
| | 1700 | 343 | 9.9 | 1499 | 193 | 193 | 0 | 17.2 | | |
| | 800 | 334 | 10 | 1499 | 189 | 189 | 0 | 17.5 | | |
| | 900 | 330 | 10 | 1501 | 189 | 189 | 0 | 17.5 | | |
| | 1000 | 328 | 10 | 1498 | 189 | 189 | 0 | 17.5 | | |
| | 1100 | 326 | 10 | 1500 | 189 | 189 | 0 | 17.5 | | |
| | 1200 | 325 | 10 | 1501 | 190 | 190 | 0 | 17.4 | | |
| | 1300 | 331 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | |
| 10/30/2013 | 1400 | 327 | 10 | 1498 | 190 | 190 | 0 | 17.4 | 99,583 | |
| | 1500 | 337 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 371 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 360 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1400 | 356 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | |
| | 1500 | 355 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | |
| 10/31/2013 | 1600 | 347 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | 106,172 | |
| | 1700 | 341 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 800 | 319 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 311 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 306 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1100 | 314 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 317 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 312 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1400 | 314 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS | | | |
|-----------|-----------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|------|---------|--|
| 11/1/2013 | 1500 | 310 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | 113,164 | | | | |
| | 1600 | 307 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1700 | 303 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 800 | 331 | 9.9 | 1499 | 190 | 190 | 0 | 17.4 | | | | | |
| | 900 | 317 | 9.9 | 1501 | 190 | 190 | 0 | 17.4 | | | | | |
| | 1000 | 327 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1100 | 322 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1200 | 316 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1300 | 330 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1400 | 319 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1500 | 317 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1600 | 341 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1700 | 346 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 11/2/2013 | 800 | 334 | 9.9 | 1500 | 192 | 192 | 0 | | | 17.3 | 119,674 | |
| 900 | | 332 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| 1000 | | 336 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| 1100 | | 339 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| 1200 | | 342 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| 1300 | | 346 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| 1400 | | 345 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| 1500 | | 342 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| 1600 | | 334 | 9.8 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| 1700 | | 343 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | | | | |
| 11/3/2013 | | 800 | 330 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | 126,970 | | | |
| | | 900 | 323 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | | 1000 | 326 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| | | 1100 | 334 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1200 | 336 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1300 | 335 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1400 | 334 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1500 | 330 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1600 | 332 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| | 1700 | 330 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (ln of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (ln of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS | | |
|-----------|-----------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|---------|--|
| 11/4/2013 | 800 | 302 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | 134,153 | | | |
| | 900 | 311 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1000 | 319 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| | 1100 | 328 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1200 | 334 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1300 | 329 | 9.9 | 1490 | 192 | 192 | 0 | 17.3 | | | | |
| | 1400 | 356 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1500 | 324 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| | 1600 | 321 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1700 | 320 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 11/5/2013 | 800 | 316 | 9.9 | 1500 | 192 | 192 | 0 | | 17.3 | 141,067 | |
| | | 900 | 321 | 9.9 | 1499 | 192 | 192 | 0 | | 17.3 | | |
| | | 1000 | 317 | 9.9 | 1501 | 192 | 192 | 0 | | 17.3 | | |
| | | 1100 | 331 | 9.9 | 1499 | 192 | 192 | 0 | | 17.3 | | |
| 1200 | | 332 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 1300 | | 335 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| 1400 | | 324 | 9.8 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| 1500 | | 318 | 9.8 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| 1600 | 315 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| 11/6/2013 | 1700 | 317 | 9.8 | 1501 | 192 | 192 | 0 | 17.3 | 147,951 | | | |
| | 800 | 311 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 900 | 306 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1000 | 303 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1100 | 312 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| | 1200 | 321 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1300 | 319 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | | | | |
| | 1400 | 315 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| 1500 | 296 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | | |
| 1600 | 289 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | | |
| 1700 | 304 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | | |
| 11/7/2013 | 800 | 297 | 10 | 1499 | 189 | 189 | 0 | 17.5 | 154,804 | | | |
| | 900 | 305 | 10 | 1501 | 189 | 189 | 0 | 17.5 | | | | |
| | 1000 | 308 | 10 | 1498 | 189 | 189 | 0 | 17.5 | | | | |
| | 1100 | 311 | 10 | 1499 | 189 | 189 | 0 | 17.5 | | | | |
| | 1200 | 314 | 10 | 1501 | 189 | 189 | 0 | 17.5 | | | | |
| | 1300 | 316 | 10 | 1500 | 189 | 189 | 0 | 17.5 | | | | |
| | 1400 | 328 | 10 | 1499 | 189 | 189 | 0 | 17.5 | | | | |
| | 1500 | 319 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | | | |
| | 1600 | 315 | 10 | 1499 | 190 | 190 | 0 | 17.4 | | | | |
| | 1700 | 311 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS | | |
|------------|------------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|---------|--|
| 11/8/2013 | 800 | 301 | 10 | 1501 | 190 | 190 | 0 | 17.4 | 161,203 | | | |
| | 900 | 292 | 10 | 1499 | 190 | 190 | 0 | 17.4 | | | | |
| | 1000 | 303 | 10 | 1502 | 190 | 190 | 0 | 17.4 | | | | |
| | 1100 | 311 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | | | |
| | 1200 | 313 | 10 | 1498 | 190 | 190 | 0 | 17.4 | | | | |
| | 1300 | 312 | 9.9 | 1500 | 190 | 190 | 0 | 17.4 | | | | |
| | 1400 | 317 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 1500 | 310 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1600 | 309 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1700 | 321 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| | 11/9/2013 | 800 | 302 | 9.9 | 1500 | 192 | 192 | 0 | | 17.3 | 168,020 | |
| | | 900 | 308 | 9.9 | 1500 | 192 | 192 | 0 | | 17.3 | | |
| | | 1000 | 300 | 9.9 | 1500 | 192 | 192 | 0 | | 17.3 | | |
| | | 1100 | 305 | 9.9 | 1499 | 192 | 192 | 0 | | 17.3 | | |
| 1200 | | 311 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| 1300 | | 309 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| 1400 | | 310 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 1500 | | 306 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| 1600 | | 304 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 1700 | | 305 | 9.8 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 11/10/2013 | | 800 | 288 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | 174,710 | | |
| | | 900 | 285 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | |
| | | 1000 | 286 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | |
| | | 1100 | 294 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | |
| | 1200 | 301 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1300 | 300 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1400 | 299 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 1500 | 297 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| | 1600 | 295 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | | | | |
| | 1700 | 298 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| | 11/11/2013 | 800 | 307 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | 181,649 | |
| | | 1700 | 301 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | |
| | 11/12/2013 | 800 | 308 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | 187,965 | |
| | | 900 | 304 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | |
| 1000 | | 307 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| 1100 | | 308 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| 1200 | | 310 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |
| 1300 | | 309 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | | | |
| 1400 | | 311 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | | | |
| 1500 | | 316 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | | | |

Table 5

**MPE Event
Operational Data : October-November 2013**

15101 Freedom Ave.
San Leandro, California

| DATE | TIME | PID (ppmv) | WELL MANIFOLD VACUUM (In of Hg) | OXIDIZER TEMPERATURE (°F) | WELL FIELD FLOW VAPOR RATE (scfm) | TOTAL SYSTEM VAPOR FLOW RATE (scfm) | DILUTION AIR FLOW RATE (scfm) | SYSTEM (BLOWER) VACUUM (In of Hg) | SYSTEM TOTALIZER READING (gallons) | COMMENTS |
|------------|------|---------------|------------------------------------------|---------------------------------|--------------------------------------------|----------------------------------------------|-------------------------------------|--------------------------------------------|---------------------------------------------|----------|
| 11/13/2013 | 1600 | 310 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | 194,520 | |
| | 1700 | 308 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 800 | 302 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 298 | 9.9 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 293 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1100 | 305 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 314 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 310 | 9.9 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1400 | 306 | 9.9 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1500 | 298 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| 11/14/2013 | 1600 | 305 | 9.9 | 1502 | 192 | 192 | 0 | 17.3 | 201,163 | |
| | 1700 | 315 | 9.9 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 800 | 312 | 10.1 | 1502 | 190 | 190 | 0 | 17.4 | | |
| | 900 | 323 | 10.1 | 1500 | 190 | 190 | 0 | 17.4 | | |
| | 1000 | 309 | 10 | 1501 | 190 | 190 | 0 | 17.4 | | |
| | 1100 | 302 | 10 | 1498 | 190 | 190 | 0 | 17.4 | | |
| | 1200 | 314 | 10 | 1500 | 190 | 190 | 0 | 17.4 | | |
| | 1300 | 309 | 10 | 1499 | 190 | 190 | 0 | 17.4 | | |
| | 1400 | 307 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1500 | 302 | 10 | 1502 | 192 | 192 | 0 | 17.3 | | |
| 11/15/2013 | 1600 | 308 | 10 | 1499 | 192 | 192 | 0 | 17.3 | 207,635 | |
| | 1700 | 305 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 800 | 284 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 900 | 287 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1000 | 281 | 10 | 1498 | 192 | 192 | 0 | 17.3 | | |
| | 1100 | 290 | 10 | 1500 | 192 | 192 | 0 | 17.3 | | |
| | 1200 | 287 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |
| | 1300 | 294 | 10 | 1499 | 192 | 192 | 0 | 17.3 | | |
| | 1400 | 296 | 10 | 1501 | 192 | 192 | 0 | 17.3 | | |

End Extraction

Totalizer readings = 207,635 gallons = 4.77 gpm

Total time of test = 43,560 minutes = 726 hours = 30.25 days

- Notes
- ppmv parts per million vapor
 - In of Hg inches of mercury
 - In of H₂O inches of water
 - °F degrees Fahrenheit
 - scfm standard cubic feet per minute

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | | | | |
|------------------|---------|------------|-------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|---------|---------|----|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane | lbs/min | lbs/day | |
| MPE-1,MPE-2,MW-6 | START | 10/15/2013 | 1130 | 0 | 0 | | | | | | | | | | | |
| | | | 1200 | 30 | 30 | 149 | 4,465 | 11.7815 | 1,030 | 0.0010 | 1.0460 | 0.0349 | 50 | | | |
| | | | 1230 | 30 | 60 | 149 | 4,465 | 11.7815 | 1,011 | 0.0010 | 1.0267 | 0.0342 | 49 | | | |
| | | | 1300 | 30 | 90 | 149 | 4,465 | 11.7815 | 989 | 0.0010 | 1.0044 | 0.0335 | 48 | | | |
| | | | 1330 | 30 | 120 | 149 | 4,465 | 11.7815 | 956 | 0.0010 | 0.9709 | 0.0324 | 47 | | | |
| | | | 1400 | 30 | 150 | 149 | 4,465 | 11.7815 | 928 | 0.0009 | 0.9424 | 0.0314 | 45 | | | |
| | | | 1430 | 30 | 180 | 150 | 4,513 | 11.9071 | 907 | 0.0009 | 0.9309 | 0.0310 | 45 | | | |
| | | | 1500 | 30 | 210 | 150 | 4,513 | 11.9071 | 885 | 0.0009 | 0.9084 | 0.0303 | 44 | | | |
| | | | 1600 | 60 | 270 | 150 | 9,026 | 23.8143 | 852 | 0.0009 | 1.7490 | 0.0291 | 42 | | | |
| | | | 1700 | 60 | 330 | 149 | 8,930 | 23.5631 | 823 | 0.0008 | 1.6716 | 0.0279 | 40 | | | |
| | | | 1800 | 60 | 390 | 149 | 8,930 | 23.5631 | 796 | 0.0008 | 1.6168 | 0.0269 | 39 | | | |
| | | | MPE-1, MW-6 | | 10/16/2013 | 800 | 840 | 1,230 | 149 | 125,026 | 329.8828 | 738 | 0.0007 | 20.9857 | 0.0250 | 36 |
| | | | | | | 900 | 60 | 1,290 | 149 | 8,930 | 23.5631 | 706 | 0.0007 | 1.4340 | 0.0239 | 34 |
| | | | | | | 1000 | 60 | 1,350 | 149 | 8,930 | 23.5631 | 697 | 0.0007 | 1.4157 | 0.0236 | 34 |
| 1100 | 60 | 1,410 | | | | 149 | 8,930 | 23.5631 | 671 | 0.0007 | 1.3629 | 0.0227 | 33 | | | |
| MPE-1,MPE-2,MW-6 | | 10/17/2013 | 1200 | 60 | 1,470 | 192 | 11,501 | 30.3457 | 783 | 0.0008 | 2.0482 | 0.0341 | 49 | | | |
| | | | 1300 | 60 | 1,530 | 193 | 11,596 | 30.5969 | 751 | 0.0008 | 1.9807 | 0.0330 | 48 | | | |
| | | | 1400 | 60 | 1,590 | 193 | 11,596 | 30.5969 | 740 | 0.0007 | 1.9517 | 0.0325 | 47 | | | |
| | | | 1500 | 60 | 1,650 | 193 | 11,596 | 30.5969 | 731 | 0.0007 | 1.9280 | 0.0321 | 46 | | | |
| | | | 1600 | 60 | 1,710 | 192 | 11,501 | 30.3457 | 706 | 0.0007 | 1.8468 | 0.0308 | 44 | | | |
| | | | 1700 | 60 | 1,770 | 192 | 11,501 | 30.3457 | 681 | 0.0007 | 1.7814 | 0.0297 | 43 | | | |
| | | | 800 | 900 | 2,670 | 192 | 172,515 | 455.1853 | 547 | 0.0005 | 21.4626 | 0.0238 | 34 | | | |
| | | | 900 | 60 | 2,730 | 192 | 11,501 | 30.3457 | 539 | 0.0005 | 1.4099 | 0.0235 | 34 | | | |
| | | | 1000 | 60 | 2,790 | 192 | 11,501 | 30.3457 | 530 | 0.0005 | 1.3864 | 0.0231 | 33 | | | |
| | | | 1100 | 60 | 2,850 | 192 | 11,501 | 30.3457 | 559 | 0.0006 | 1.4622 | 0.0244 | 35 | | | |
| | | | 1200 | 60 | 2,910 | 192 | 11,501 | 30.3457 | 551 | 0.0006 | 1.4413 | 0.0240 | 35 | | | |
| | | | 1300 | 60 | 2,970 | 192 | 11,501 | 30.3457 | 558 | 0.0006 | 1.4596 | 0.0243 | 35 | | | |
| | | | 1400 | 60 | 3,030 | 192 | 11,501 | 30.3457 | 554 | 0.0006 | 1.4492 | 0.0242 | 35 | | | |
| | | | 1500 | 60 | 3,090 | 192 | 11,501 | 30.3457 | 549 | 0.0005 | 1.4361 | 0.0239 | 34 | | | |
| 1600 | 60 | 3,150 | 192 | 11,501 | 30.3457 | 545 | 0.0005 | 1.4256 | 0.0238 | 34 | | | | | | |
| 1700 | 60 | 3,210 | 192 | 11,501 | 30.3457 | 544 | 0.0005 | 1.4230 | 0.0237 | 34 | | | | | | |
| 10/18/2013 | | | 800 | 900 | 4,110 | 192 | 172,515 | 455.1853 | 595 | 0.0006 | 23.3460 | 0.0259 | 37 | | | |
| | | | 900 | 60 | 4,170 | 192 | 11,501 | 30.3457 | 594 | 0.0006 | 1.5538 | 0.0259 | 37 | | | |
| | | | 1000 | 60 | 4,230 | 192 | 11,501 | 30.3457 | 592 | 0.0006 | 1.5486 | 0.0258 | 37 | | | |
| | | | 1100 | 60 | 4,290 | 192 | 11,501 | 30.3457 | 588 | 0.0006 | 1.5381 | 0.0256 | 37 | | | |
| | | | 1200 | 60 | 4,350 | 192 | 11,501 | 30.3457 | 581 | 0.0006 | 1.5198 | 0.0253 | 36 | | | |
| | | | 1300 | 60 | 4,410 | 192 | 11,501 | 30.3457 | 568 | 0.0006 | 1.4858 | 0.0248 | 36 | | | |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|--------------|---------|------------|------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| MPE-1, MPE-2 | | 10/19/2013 | 1400 | 60 | 4,470 | 192 | 11,501 | 30.3457 | 577 | 0.0006 | 1.5093 | 0.0252 | 36 |
| | | | 1500 | 60 | 4,530 | 192 | 11,501 | 30.3457 | 582 | 0.0006 | 1.5224 | 0.0254 | 37 |
| | | | 1600 | 60 | 4,590 | 192 | 11,501 | 30.3457 | 571 | 0.0006 | 1.4936 | 0.0249 | 36 |
| | | | 1700 | 60 | 4,650 | 192 | 11,501 | 30.3457 | 560 | 0.0006 | 1.4648 | 0.0244 | 35 |
| | | | 800 | 900 | 5,550 | 158 | 142,525 | 376.0547 | 542 | 0.0005 | 17.5694 | 0.0195 | 28 |
| | | | 1000 | 120 | 5,670 | 165 | 19,765 | 52.1503 | 549 | 0.0005 | 2.4679 | 0.0206 | 30 |
| | | 10/20/2013 | 1130 | 90 | 5,760 | 196 | 17,680 | 46.6490 | 656 | 0.0007 | 2.6379 | 0.0293 | 42 |
| | | | 1400 | 150 | 5,910 | 193 | 28,991 | 76.4922 | 650 | 0.0007 | 4.2859 | 0.0286 | 41 |
| | | | 1600 | 120 | 6,030 | 193 | 23,192 | 61.1938 | 672 | 0.0007 | 3.5447 | 0.0295 | 43 |
| | | | 800 | 960 | 6,990 | 192 | 184,016 | 485.5310 | 609 | 0.0006 | 25.4883 | 0.0266 | 38 |
| | | | 900 | 60 | 7,050 | 192 | 11,501 | 30.3457 | 621 | 0.0006 | 1.6244 | 0.0271 | 39 |
| | | | 1000 | 60 | 7,110 | 189 | 11,311 | 29.8433 | 647 | 0.0006 | 1.6644 | 0.0277 | 40 |
| | | | 1100 | 60 | 7,170 | 189 | 11,311 | 29.8433 | 653 | 0.0007 | 1.6798 | 0.0280 | 40 |
| | | | 1200 | 60 | 7,230 | 189 | 11,311 | 29.8433 | 659 | 0.0007 | 1.6953 | 0.0283 | 41 |
| | | | 1300 | 60 | 7,290 | 189 | 11,311 | 29.8433 | 655 | 0.0007 | 1.6850 | 0.0281 | 40 |
| | | | 1400 | 60 | 7,350 | 190 | 11,406 | 30.0945 | 688 | 0.0007 | 1.7848 | 0.0297 | 43 |
| | | 10/21/2013 | 1500 | 60 | 7,410 | 190 | 11,406 | 30.0945 | 703 | 0.0007 | 1.8237 | 0.0304 | 44 |
| | | | 1600 | 60 | 7,470 | 192 | 11,501 | 30.3457 | 694 | 0.0007 | 1.8154 | 0.0303 | 44 |
| | | | 1700 | 60 | 7,530 | 192 | 11,501 | 30.3457 | 687 | 0.0007 | 1.7971 | 0.0300 | 43 |
| | | | 800 | 900 | 8,430 | 192 | 172,515 | 455.1853 | 650 | 0.0007 | 25.5040 | 0.0283 | 41 |
| | | | 900 | 60 | 8,490 | 192 | 11,501 | 30.3457 | 655 | 0.0007 | 1.7133 | 0.0286 | 41 |
| | | | 1000 | 60 | 8,550 | 157 | 9,406 | 24.8191 | 489 | 0.0005 | 1.0462 | 0.0174 | 25 |
| | | | 1100 | 60 | 8,610 | 157 | 9,406 | 24.8191 | 483 | 0.0005 | 1.0333 | 0.0172 | 25 |
| | | | 1200 | 60 | 8,670 | 157 | 9,406 | 24.8191 | 478 | 0.0005 | 1.0226 | 0.0170 | 25 |
| | | | 1300 | 60 | 8,730 | 157 | 9,406 | 24.8191 | 497 | 0.0005 | 1.0633 | 0.0177 | 26 |
| | | | 1400 | 60 | 8,790 | 192 | 11,501 | 30.3457 | 721 | 0.0007 | 1.8860 | 0.0314 | 45 |
| | | 10/22/2013 | 1500 | 60 | 8,850 | 192 | 11,501 | 30.3457 | 704 | 0.0007 | 1.8415 | 0.0307 | 44 |
| | | | 1600 | 60 | 8,910 | 192 | 11,501 | 30.3457 | 873 | 0.0009 | 2.2836 | 0.0381 | 55 |
| | | | 1700 | 60 | 8,970 | 192 | 11,501 | 30.3457 | 895 | 0.0009 | 2.3411 | 0.0390 | 56 |
| | | | 800 | 900 | 9,870 | 182 | 163,947 | 432.5766 | 1,091 | 0.0011 | 40.6813 | 0.0452 | 65 |
| | | | 900 | 60 | 9,930 | 182 | 10,930 | 28.8384 | 1,069 | 0.0011 | 2.6574 | 0.0443 | 64 |
| | | | 1000 | 60 | 9,990 | 184 | 11,025 | 29.0896 | 1,007 | 0.0010 | 2.5251 | 0.0421 | 61 |
| | | | 1100 | 60 | 10,050 | 184 | 11,025 | 29.0896 | 935 | 0.0009 | 2.3445 | 0.0391 | 56 |
| | | | 1200 | 60 | 10,110 | 184 | 11,025 | 29.0896 | 901 | 0.0009 | 2.2593 | 0.0377 | 54 |
| | | | 1300 | 60 | 10,170 | 193 | 11,596 | 30.5969 | 845 | 0.0008 | 2.2286 | 0.0371 | 53 |
| | | | 1400 | 60 | 10,230 | 193 | 11,596 | 30.5969 | 826 | 0.0008 | 2.1785 | 0.0363 | 52 |
| 1500 | 60 | 10,290 | 192 | 11,501 | 30.3457 | 798 | 0.0008 | 2.0874 | 0.0348 | 50 | | | |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | | |
|----------|---------|-------------------|-------------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|---------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane | lbs/min |
| | | 10/23/2013 | 1600 | 60 | 10,350 | 193 | 11,596 | 30.5969 | 753 | 0.0008 | 1.9860 | 0.0331 | 48 | |
| | | | 1700 | 60 | 10,410 | 193 | 11,596 | 30.5969 | 724 | 0.0007 | 1.9095 | 0.0318 | 46 | |
| | | | 800 | 900 | 11,310 | 189 | 169,659 | 447.6491 | 598 | 0.0006 | 23.0752 | 0.0256 | 37 | |
| | | | 900 | 60 | 11,370 | 189 | 11,311 | 29.8433 | 586 | 0.0006 | 1.5075 | 0.0251 | 36 | |
| | | | 1000 | 60 | 11,430 | 192 | 11,501 | 30.3457 | 571 | 0.0006 | 1.4936 | 0.0249 | 36 | |
| | | | 1100 | 60 | 11,490 | 192 | 11,501 | 30.3457 | 574 | 0.0006 | 1.5015 | 0.0250 | 36 | |
| | | | 1200 | 60 | 11,550 | 192 | 11,501 | 30.3457 | 577 | 0.0006 | 1.5093 | 0.0252 | 36 | |
| | | | 1300 | 60 | 11,610 | 192 | 11,501 | 30.3457 | 570 | 0.0006 | 1.4910 | 0.0249 | 36 | |
| | | | 1400 | 60 | 11,670 | 193 | 11,596 | 30.5969 | 562 | 0.0006 | 1.4822 | 0.0247 | 36 | |
| | | | 1500 | 60 | 11,730 | 193 | 11,596 | 30.5969 | 557 | 0.0006 | 1.4691 | 0.0245 | 35 | |
| | | | 1600 | 60 | 11,790 | 193 | 11,596 | 30.5969 | 554 | 0.0006 | 1.4611 | 0.0244 | 35 | |
| | | | 1700 | 60 | 11,850 | 193 | 11,596 | 30.5969 | 548 | 0.0005 | 1.4453 | 0.0241 | 35 | |
| | | | 10/24/2013 | 800 | 900 | 12,750 | 192 | 172,515 | 455.1853 | 494 | 0.0005 | 19.3831 | 0.0215 | 31 |
| | | | | 900 | 60 | 12,810 | 192 | 11,501 | 30.3457 | 489 | 0.0005 | 1.2791 | 0.0213 | 31 |
| | | 1000 | | 60 | 12,870 | 192 | 11,501 | 30.3457 | 485 | 0.0005 | 1.2687 | 0.0211 | 30 | |
| | | 1100 | | 60 | 12,930 | 192 | 11,501 | 30.3457 | 472 | 0.0005 | 1.2347 | 0.0206 | 30 | |
| | | 1200 | | 60 | 12,990 | 192 | 11,501 | 30.3457 | 474 | 0.0005 | 1.2399 | 0.0207 | 30 | |
| | | 1300 | | 60 | 13,050 | 192 | 11,501 | 30.3457 | 470 | 0.0005 | 1.2294 | 0.0205 | 30 | |
| | | 1400 | | 60 | 13,110 | 192 | 11,501 | 30.3457 | 467 | 0.0005 | 1.2216 | 0.0204 | 29 | |
| | | 1500 | | 60 | 13,170 | 192 | 11,501 | 30.3457 | 472 | 0.0005 | 1.2347 | 0.0206 | 30 | |
| | | 1600 | | 60 | 13,230 | 192 | 11,501 | 30.3457 | 465 | 0.0005 | 1.2163 | 0.0203 | 29 | |
| | | 1700 | | 60 | 13,290 | 192 | 11,501 | 30.3457 | 461 | 0.0005 | 1.2059 | 0.0201 | 29 | |
| | | 10/25/2013 | | 800 | 900 | 14,190 | 189 | 169,659 | 447.6491 | 435 | 0.0004 | 16.7855 | 0.0187 | 27 |
| | | | | 900 | 60 | 14,250 | 189 | 11,311 | 29.8433 | 429 | 0.0004 | 1.1036 | 0.0184 | 26 |
| | | | | 1000 | 60 | 14,310 | 189 | 11,311 | 29.8433 | 420 | 0.0004 | 1.0804 | 0.0180 | 26 |
| | | | | 1100 | 60 | 14,370 | 189 | 11,311 | 29.8433 | 428 | 0.0004 | 1.1010 | 0.0184 | 26 |
| | | | 1200 | 60 | 14,430 | 190 | 11,406 | 30.0945 | 425 | 0.0004 | 1.1025 | 0.0184 | 26 | |
| | | | 1300 | 60 | 14,490 | 192 | 11,501 | 30.3457 | 427 | 0.0004 | 1.1169 | 0.0186 | 27 | |
| | | | 1400 | 60 | 14,550 | 192 | 11,501 | 30.3457 | 432 | 0.0004 | 1.1300 | 0.0188 | 27 | |
| | | | 1500 | 60 | 14,610 | 193 | 11,596 | 30.5969 | 429 | 0.0004 | 1.1315 | 0.0189 | 27 | |
| | | | 1600 | 60 | 14,670 | 193 | 11,596 | 30.5969 | 418 | 0.0004 | 1.1025 | 0.0184 | 26 | |
| | | | 1700 | 60 | 14,730 | 193 | 11,596 | 30.5969 | 417 | 0.0004 | 1.0998 | 0.0183 | 26 | |
| | | | 10/26/2013 | 800 | 900 | 15,630 | 193 | 173,943 | 458.9535 | 407 | 0.0004 | 16.1016 | 0.0179 | 26 |
| | | | | 900 | 60 | 15,690 | 193 | 11,596 | 30.5969 | 414 | 0.0004 | 1.0919 | 0.0182 | 26 |
| | | | | 1000 | 60 | 15,750 | 193 | 11,596 | 30.5969 | 406 | 0.0004 | 1.0708 | 0.0178 | 26 |
| | | | | 1100 | 60 | 15,810 | 192 | 11,501 | 30.3457 | 401 | 0.0004 | 1.0489 | 0.0175 | 25 |
| | | 1200 | | 60 | 15,870 | 192 | 11,501 | 30.3457 | 395 | 0.0004 | 1.0332 | 0.0172 | 25 | |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|--------------------|----------------|------------|------------|------------------|--------------|---------|----------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| MPE-1, MPE-2, MW-6 | PAUSE START | 10/27/2013 | 1300 | 60 | 15,930 | 192 | 11,501 | 30.3457 | 403 | 0.0004 | 1.0542 | 0.0176 | 25 |
| | | | 1400 | 60 | 15,990 | 192 | 11,501 | 30.3457 | 401 | 0.0004 | 1.0489 | 0.0175 | 25 |
| | | | 1500 | 60 | 16,050 | 193 | 11,596 | 30.5969 | 402 | 0.0004 | 1.0603 | 0.0177 | 25 |
| | | | 1600 | 60 | 16,110 | 193 | 11,596 | 30.5969 | 399 | 0.0004 | 1.0523 | 0.0175 | 25 |
| | | | 1700 | 60 | 16,170 | 193 | 11,596 | 30.5969 | 395 | 0.0004 | 1.0418 | 0.0174 | 25 |
| | | | 800 | 900 | 17,070 | 192 | 172,515 | 455.1853 | 374 | 0.0004 | 14.6746 | 0.0163 | 23 |
| | | | 900 | 60 | 17,130 | 192 | 11,501 | 30.3457 | 367 | 0.0004 | 0.9600 | 0.0160 | 23 |
| | | | 1000 | 60 | 17,190 | 192 | 11,501 | 30.3457 | 364 | 0.0004 | 0.9522 | 0.0159 | 23 |
| | | | 1100 | 60 | 17,250 | 192 | 11,501 | 30.3457 | 368 | 0.0004 | 0.9626 | 0.0160 | 23 |
| | | | 1200 | 60 | 17,310 | 192 | 11,501 | 30.3457 | 364 | 0.0004 | 0.9522 | 0.0159 | 23 |
| | | | 1300 | 60 | 17,370 | 192 | 11,501 | 30.3457 | 371 | 0.0004 | 0.9705 | 0.0162 | 23 |
| | | | 1400 | 60 | 17,430 | 192 | 11,501 | 30.3457 | 368 | 0.0004 | 0.9626 | 0.0160 | 23 |
| | | | 1500 | 60 | 17,490 | 192 | 11,501 | 30.3457 | 367 | 0.0004 | 0.9600 | 0.0160 | 23 |
| | | | 1600 | 60 | 17,550 | 192 | 11,501 | 30.3457 | 368 | 0.0004 | 0.9626 | 0.0160 | 23 |
| | | | 1700 | 60 | 17,610 | 192 | 11,501 | 30.3457 | 365 | 0.0004 | 0.9548 | 0.0159 | 23 |
| | | 800 | 900 | 18,510 | 192 | 172,515 | 455.1853 | 358 | 0.0004 | 14.0468 | 0.0156 | 22 | |
| | | 900 | 60 | 18,570 | 192 | 11,501 | 30.3457 | 355 | 0.0004 | 0.9286 | 0.0155 | 22 | |
| | | 1000 | 60 | 18,630 | 192 | 11,501 | 30.3457 | 351 | 0.0004 | 0.9181 | 0.0153 | 22 | |
| | | 1100 | 60 | 18,690 | 192 | 11,501 | 30.3457 | 347 | 0.0003 | 0.9077 | 0.0151 | 22 | |
| | | 1200 | 60 | 18,750 | 192 | 11,501 | 30.3457 | 342 | 0.0003 | 0.8946 | 0.0149 | 21 | |
| | | 1300 | 60 | 18,810 | 192 | 11,501 | 30.3457 | 350 | 0.0004 | 0.9155 | 0.0153 | 22 | |
| | | 1400 | 60 | 18,870 | 192 | 11,501 | 30.3457 | 347 | 0.0003 | 0.9077 | 0.0151 | 22 | |
| | | 1500 | 60 | 18,930 | 193 | 11,596 | 30.5969 | 354 | 0.0004 | 0.9337 | 0.0156 | 22 | |
| | | 1600 | 60 | 18,990 | 193 | 11,596 | 30.5969 | 346 | 0.0003 | 0.9126 | 0.0152 | 22 | |
| | | 1700 | 60 | 19,050 | 193 | 11,596 | 30.5969 | 343 | 0.0003 | 0.9046 | 0.0151 | 22 | |
| | | 800 | 900 | 19,950 | 189 | 169,659 | 447.6491 | 334 | 0.0003 | 12.8882 | 0.0143 | 21 | |
| | | 900 | 60 | 20,010 | 189 | 11,311 | 29.8433 | 330 | 0.0003 | 0.8489 | 0.0141 | 20 | |
| | | 1000 | 60 | 20,070 | 189 | 11,311 | 29.8433 | 328 | 0.0003 | 0.8438 | 0.0141 | 20 | |
| | | 1100 | 60 | 20,130 | 189 | 11,311 | 29.8433 | 326 | 0.0003 | 0.8386 | 0.0140 | 20 | |
| | | 1200 | 60 | 20,190 | 190 | 11,406 | 30.0945 | 325 | 0.0003 | 0.8431 | 0.0141 | 20 | |
| | | 1300 | 60 | 20,250 | 190 | 11,406 | 30.0945 | 331 | 0.0003 | 0.8587 | 0.0143 | 21 | |
| | | 1400 | 60 | 20,310 | 190 | 11,406 | 30.0945 | 327 | 0.0003 | 0.8483 | 0.0141 | 20 | |
| | | 1500 | 60 | 20,370 | 192 | 11,501 | 30.3457 | 337 | 0.0003 | 0.8815 | 0.0147 | 21 | |
| | | 1200 | 30 | 20,400 | 192 | 5,751 | 15.1728 | 371 | 0.0004 | 0.4852 | 0.0162 | 23 | |
| | | 1300 | 60 | 20,460 | 192 | 11,501 | 30.3457 | 360 | 0.0004 | 0.9417 | 0.0157 | 23 | |
| | | 1400 | 60 | 20,520 | 192 | 11,501 | 30.3457 | 356 | 0.0004 | 0.9312 | 0.0155 | 22 | |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|----------|---------|-------------------|------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| | | 10/31/2013 | 1500 | 60 | 20,580 | 192 | 11,501 | 30.3457 | 355 | 0.0004 | 0.9286 | 0.0155 | 22 |
| | | | 1600 | 60 | 20,640 | 192 | 11,501 | 30.3457 | 347 | 0.0003 | 0.9077 | 0.0151 | 22 |
| | | | 1700 | 60 | 20,700 | 192 | 11,501 | 30.3457 | 341 | 0.0003 | 0.8920 | 0.0149 | 21 |
| | | | 800 | 900 | 21,600 | 192 | 172,515 | 455.1853 | 319 | 0.0003 | 12.5166 | 0.0139 | 20 |
| | | | 900 | 60 | 21,660 | 192 | 11,501 | 30.3457 | 311 | 0.0003 | 0.8135 | 0.0136 | 20 |
| | | | 1000 | 60 | 21,720 | 192 | 11,501 | 30.3457 | 306 | 0.0003 | 0.8004 | 0.0133 | 19 |
| | | | 1100 | 60 | 21,780 | 192 | 11,501 | 30.3457 | 314 | 0.0003 | 0.8214 | 0.0137 | 20 |
| | | | 1200 | 60 | 21,840 | 192 | 11,501 | 30.3457 | 317 | 0.0003 | 0.8292 | 0.0138 | 20 |
| | | | 1300 | 60 | 21,900 | 192 | 11,501 | 30.3457 | 312 | 0.0003 | 0.8161 | 0.0136 | 20 |
| | | | 1400 | 60 | 21,960 | 192 | 11,501 | 30.3457 | 314 | 0.0003 | 0.8214 | 0.0137 | 20 |
| | | 11/1/2013 | 1500 | 60 | 22,020 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | | 1600 | 60 | 22,080 | 192 | 11,501 | 30.3457 | 307 | 0.0003 | 0.8031 | 0.0134 | 19 |
| | | | 1700 | 60 | 22,140 | 192 | 11,501 | 30.3457 | 303 | 0.0003 | 0.7926 | 0.0132 | 19 |
| | | | 800 | 900 | 23,040 | 190 | 171,087 | 451.4172 | 331 | 0.0003 | 12.8799 | 0.0143 | 21 |
| | | | 900 | 60 | 23,100 | 190 | 11,406 | 30.0945 | 317 | 0.0003 | 0.8223 | 0.0137 | 20 |
| | | | 1000 | 60 | 23,160 | 192 | 11,501 | 30.3457 | 327 | 0.0003 | 0.8554 | 0.0143 | 21 |
| | | | 1100 | 60 | 23,220 | 192 | 11,501 | 30.3457 | 322 | 0.0003 | 0.8423 | 0.0140 | 20 |
| | | | 1200 | 60 | 23,280 | 192 | 11,501 | 30.3457 | 316 | 0.0003 | 0.8266 | 0.0138 | 20 |
| | | | 1300 | 60 | 23,340 | 192 | 11,501 | 30.3457 | 330 | 0.0003 | 0.8632 | 0.0144 | 21 |
| | | | 1400 | 60 | 23,400 | 192 | 11,501 | 30.3457 | 319 | 0.0003 | 0.8344 | 0.0139 | 20 |
| | | 11/2/2013 | 1500 | 60 | 23,460 | 192 | 11,501 | 30.3457 | 317 | 0.0003 | 0.8292 | 0.0138 | 20 |
| | | | 1600 | 60 | 23,520 | 192 | 11,501 | 30.3457 | 341 | 0.0003 | 0.8920 | 0.0149 | 21 |
| | | | 1700 | 60 | 23,580 | 192 | 11,501 | 30.3457 | 346 | 0.0003 | 0.9051 | 0.0151 | 22 |
| | | | 800 | 900 | 24,480 | 192 | 172,515 | 455.1853 | 334 | 0.0003 | 13.1051 | 0.0146 | 21 |
| | | | 900 | 60 | 24,540 | 192 | 11,501 | 30.3457 | 332 | 0.0003 | 0.8684 | 0.0145 | 21 |
| | | | 1000 | 60 | 24,600 | 192 | 11,501 | 30.3457 | 336 | 0.0003 | 0.8789 | 0.0146 | 21 |
| | | | 1100 | 60 | 24,660 | 192 | 11,501 | 30.3457 | 339 | 0.0003 | 0.8868 | 0.0148 | 21 |
| | | | 1200 | 60 | 24,720 | 192 | 11,501 | 30.3457 | 342 | 0.0003 | 0.8946 | 0.0149 | 21 |
| | | | 1300 | 60 | 24,780 | 192 | 11,501 | 30.3457 | 346 | 0.0003 | 0.9051 | 0.0151 | 22 |
| | | | 1400 | 60 | 24,840 | 192 | 11,501 | 30.3457 | 345 | 0.0003 | 0.9025 | 0.0150 | 22 |
| | | 11/3/2013 | 1500 | 60 | 24,900 | 192 | 11,501 | 30.3457 | 342 | 0.0003 | 0.8946 | 0.0149 | 21 |
| | | | 1600 | 60 | 24,960 | 192 | 11,501 | 30.3457 | 334 | 0.0003 | 0.8737 | 0.0146 | 21 |
| | | | 1700 | 60 | 25,020 | 192 | 11,501 | 30.3457 | 343 | 0.0003 | 0.8972 | 0.0150 | 22 |
| | | | 800 | 900 | 25,920 | 192 | 172,515 | 455.1853 | 330 | 0.0003 | 12.9482 | 0.0144 | 21 |
| | | | 900 | 60 | 25,980 | 192 | 11,501 | 30.3457 | 323 | 0.0003 | 0.8449 | 0.0141 | 20 |
| | | | 1000 | 60 | 26,040 | 192 | 11,501 | 30.3457 | 326 | 0.0003 | 0.8528 | 0.0142 | 20 |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | | |
|----------|---------|-----------|------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|---------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane | lbs/min |
| | | 11/4/2013 | 1100 | 60 | 26,100 | 192 | 11,501 | 30.3457 | 334 | 0.0003 | 0.8737 | 0.0146 | 21 | |
| | | | 1200 | 60 | 26,160 | 192 | 11,501 | 30.3457 | 336 | 0.0003 | 0.8789 | 0.0146 | 21 | |
| | | | 1300 | 60 | 26,220 | 192 | 11,501 | 30.3457 | 335 | 0.0003 | 0.8763 | 0.0146 | 21 | |
| | | | 1400 | 60 | 26,280 | 192 | 11,501 | 30.3457 | 334 | 0.0003 | 0.8737 | 0.0146 | 21 | |
| | | | 1500 | 60 | 26,340 | 192 | 11,501 | 30.3457 | 330 | 0.0003 | 0.8632 | 0.0144 | 21 | |
| | | | 1600 | 60 | 26,400 | 192 | 11,501 | 30.3457 | 332 | 0.0003 | 0.8684 | 0.0145 | 21 | |
| | | | 1700 | 60 | 26,460 | 192 | 11,501 | 30.3457 | 330 | 0.0003 | 0.8632 | 0.0144 | 21 | |
| | | | 800 | 900 | 27,360 | 192 | 172,515 | 455.1853 | 302 | 0.0003 | 11.8496 | 0.0132 | 19 | |
| | | | 900 | 60 | 27,420 | 192 | 11,501 | 30.3457 | 311 | 0.0003 | 0.8135 | 0.0136 | 20 | |
| | | | 1000 | 60 | 27,480 | 192 | 11,501 | 30.3457 | 319 | 0.0003 | 0.8344 | 0.0139 | 20 | |
| | | | 1100 | 60 | 27,540 | 192 | 11,501 | 30.3457 | 328 | 0.0003 | 0.8580 | 0.0143 | 21 | |
| | | | 1200 | 60 | 27,600 | 192 | 11,501 | 30.3457 | 334 | 0.0003 | 0.8737 | 0.0146 | 21 | |
| | | | 1300 | 60 | 27,660 | 192 | 11,501 | 30.3457 | 329 | 0.0003 | 0.8606 | 0.0143 | 21 | |
| | | | 1400 | 60 | 27,720 | 192 | 11,501 | 30.3457 | 356 | 0.0004 | 0.9312 | 0.0155 | 22 | |
| | | | 1500 | 60 | 27,780 | 192 | 11,501 | 30.3457 | 324 | 0.0003 | 0.8475 | 0.0141 | 20 | |
| | | | 1600 | 60 | 27,840 | 192 | 11,501 | 30.3457 | 321 | 0.0003 | 0.8397 | 0.0140 | 20 | |
| | | | 1700 | 60 | 27,900 | 192 | 11,501 | 30.3457 | 320 | 0.0003 | 0.8371 | 0.0140 | 20 | |
| | | 11/5/2013 | 800 | 900 | 28,800 | 192 | 172,515 | 455.1853 | 316 | 0.0003 | 12.3989 | 0.0138 | 20 | |
| | | | 900 | 60 | 28,860 | 192 | 11,501 | 30.3457 | 321 | 0.0003 | 0.8397 | 0.0140 | 20 | |
| | | | 1000 | 60 | 28,920 | 192 | 11,501 | 30.3457 | 317 | 0.0003 | 0.8292 | 0.0138 | 20 | |
| | | | 1100 | 60 | 28,980 | 192 | 11,501 | 30.3457 | 331 | 0.0003 | 0.8658 | 0.0144 | 21 | |
| | | | 1200 | 60 | 29,040 | 192 | 11,501 | 30.3457 | 332 | 0.0003 | 0.8684 | 0.0145 | 21 | |
| | | | 1300 | 60 | 29,100 | 192 | 11,501 | 30.3457 | 335 | 0.0003 | 0.8763 | 0.0146 | 21 | |
| | | | 1400 | 60 | 29,160 | 192 | 11,501 | 30.3457 | 324 | 0.0003 | 0.8475 | 0.0141 | 20 | |
| | | | 1500 | 60 | 29,220 | 192 | 11,501 | 30.3457 | 318 | 0.0003 | 0.8318 | 0.0139 | 20 | |
| | | | 1600 | 60 | 29,280 | 192 | 11,501 | 30.3457 | 315 | 0.0003 | 0.8240 | 0.0137 | 20 | |
| | | | 1700 | 60 | 29,340 | 192 | 11,501 | 30.3457 | 317 | 0.0003 | 0.8292 | 0.0138 | 20 | |
| | | | 11/6/2013 | 800 | 900 | 30,240 | 192 | 172,515 | 455.1853 | 311 | 0.0003 | 12.2027 | 0.0136 | 20 |
| | | | | 900 | 60 | 30,300 | 192 | 11,501 | 30.3457 | 306 | 0.0003 | 0.8004 | 0.0133 | 19 |
| | | | | 1000 | 60 | 30,360 | 192 | 11,501 | 30.3457 | 303 | 0.0003 | 0.7926 | 0.0132 | 19 |
| | | | | 1100 | 60 | 30,420 | 192 | 11,501 | 30.3457 | 312 | 0.0003 | 0.8161 | 0.0136 | 20 |
| | | | | 1200 | 60 | 30,480 | 192 | 11,501 | 30.3457 | 321 | 0.0003 | 0.8397 | 0.0140 | 20 |
| | | | | 1300 | 60 | 30,540 | 192 | 11,501 | 30.3457 | 319 | 0.0003 | 0.8344 | 0.0139 | 20 |
| | | | | 1400 | 60 | 30,600 | 192 | 11,501 | 30.3457 | 315 | 0.0003 | 0.8240 | 0.0137 | 20 |
| | | 1500 | | 60 | 30,660 | 192 | 11,501 | 30.3457 | 296 | 0.0003 | 0.7743 | 0.0129 | 19 | |
| | | 1600 | | 60 | 30,720 | 192 | 11,501 | 30.3457 | 289 | 0.0003 | 0.7560 | 0.0126 | 18 | |
| | | 1700 | | 60 | 30,780 | 192 | 11,501 | 30.3457 | 304 | 0.0003 | 0.7952 | 0.0133 | 19 | |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|----------|---------|-------------------|------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| | | 11/7/2013 | 800 | 900 | 31,680 | 189 | 169,659 | 447.6491 | 297 | 0.0003 | 11.4604 | 0.0127 | 18 |
| | | | 900 | 60 | 31,740 | 189 | 11,311 | 29.8433 | 305 | 0.0003 | 0.7846 | 0.0131 | 19 |
| | | | 1000 | 60 | 31,800 | 189 | 11,311 | 29.8433 | 308 | 0.0003 | 0.7923 | 0.0132 | 19 |
| | | | 1100 | 60 | 31,860 | 189 | 11,311 | 29.8433 | 311 | 0.0003 | 0.8000 | 0.0133 | 19 |
| | | | 1200 | 60 | 31,920 | 189 | 11,311 | 29.8433 | 314 | 0.0003 | 0.8078 | 0.0135 | 19 |
| | | | 1300 | 60 | 31,980 | 189 | 11,311 | 29.8433 | 316 | 0.0003 | 0.8129 | 0.0135 | 20 |
| | | | 1400 | 60 | 32,040 | 189 | 11,311 | 29.8433 | 328 | 0.0003 | 0.8438 | 0.0141 | 20 |
| | | | 1500 | 60 | 32,100 | 190 | 11,406 | 30.0945 | 319 | 0.0003 | 0.8275 | 0.0138 | 20 |
| | | | 1600 | 60 | 32,160 | 190 | 11,406 | 30.0945 | 315 | 0.0003 | 0.8172 | 0.0136 | 20 |
| | | | 1700 | 60 | 32,220 | 190 | 11,406 | 30.0945 | 311 | 0.0003 | 0.8068 | 0.0134 | 19 |
| | | 11/8/2013 | 800 | 900 | 33,120 | 190 | 171,087 | 451.4172 | 301 | 0.0003 | 11.7126 | 0.0130 | 19 |
| | | | 900 | 60 | 33,180 | 190 | 11,406 | 30.0945 | 292 | 0.0003 | 0.7575 | 0.0126 | 18 |
| | | | 1000 | 60 | 33,240 | 190 | 11,406 | 30.0945 | 303 | 0.0003 | 0.7860 | 0.0131 | 19 |
| | | | 1100 | 60 | 33,300 | 190 | 11,406 | 30.0945 | 311 | 0.0003 | 0.8068 | 0.0134 | 19 |
| | | | 1200 | 60 | 33,360 | 190 | 11,406 | 30.0945 | 313 | 0.0003 | 0.8120 | 0.0135 | 19 |
| | | | 1300 | 60 | 33,420 | 190 | 11,406 | 30.0945 | 312 | 0.0003 | 0.8094 | 0.0135 | 19 |
| | | | 1400 | 60 | 33,480 | 192 | 11,501 | 30.3457 | 317 | 0.0003 | 0.8292 | 0.0138 | 20 |
| | | | 1500 | 60 | 33,540 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | | 1600 | 60 | 33,600 | 192 | 11,501 | 30.3457 | 309 | 0.0003 | 0.8083 | 0.0135 | 19 |
| | | | 1700 | 60 | 33,660 | 192 | 11,501 | 30.3457 | 321 | 0.0003 | 0.8397 | 0.0140 | 20 |
| | | 11/9/2013 | 800 | 900 | 34,560 | 192 | 172,515 | 455.1853 | 302 | 0.0003 | 11.8496 | 0.0132 | 19 |
| | | | 900 | 60 | 34,620 | 192 | 11,501 | 30.3457 | 308 | 0.0003 | 0.8057 | 0.0134 | 19 |
| | | | 1000 | 60 | 34,680 | 192 | 11,501 | 30.3457 | 300 | 0.0003 | 0.7847 | 0.0131 | 19 |
| | | | 1100 | 60 | 34,740 | 192 | 11,501 | 30.3457 | 305 | 0.0003 | 0.7978 | 0.0133 | 19 |
| | | | 1200 | 60 | 34,800 | 192 | 11,501 | 30.3457 | 311 | 0.0003 | 0.8135 | 0.0136 | 20 |
| | | | 1300 | 60 | 34,860 | 192 | 11,501 | 30.3457 | 309 | 0.0003 | 0.8083 | 0.0135 | 19 |
| | | | 1400 | 60 | 34,920 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | | 1500 | 60 | 34,980 | 192 | 11,501 | 30.3457 | 306 | 0.0003 | 0.8004 | 0.0133 | 19 |
| | | | 1600 | 60 | 35,040 | 192 | 11,501 | 30.3457 | 304 | 0.0003 | 0.7952 | 0.0133 | 19 |
| | | | 1700 | 60 | 35,100 | 192 | 11,501 | 30.3457 | 305 | 0.0003 | 0.7978 | 0.0133 | 19 |
| | | 11/10/2013 | 800 | 900 | 36,000 | 192 | 172,515 | 455.1853 | 288 | 0.0003 | 11.3002 | 0.0126 | 18 |
| | | | 900 | 60 | 36,060 | 192 | 11,501 | 30.3457 | 285 | 0.0003 | 0.7455 | 0.0124 | 18 |
| | | | 1000 | 60 | 36,120 | 192 | 11,501 | 30.3457 | 286 | 0.0003 | 0.7481 | 0.0125 | 18 |
| | | | 1100 | 60 | 36,180 | 192 | 11,501 | 30.3457 | 294 | 0.0003 | 0.7690 | 0.0128 | 18 |
| | | | 1200 | 60 | 36,240 | 192 | 11,501 | 30.3457 | 301 | 0.0003 | 0.7874 | 0.0131 | 19 |
| | | | 1300 | 60 | 36,300 | 192 | 11,501 | 30.3457 | 300 | 0.0003 | 0.7847 | 0.0131 | 19 |
| | | | 1400 | 60 | 36,360 | 192 | 11,501 | 30.3457 | 299 | 0.0003 | 0.7821 | 0.0130 | 19 |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|----------|---------|------------|------------|------------------|--------------|---------|---------|----------|----------------------------------|------------------------|----------------|------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| | | 11/11/2013 | 1500 | 60 | 36,420 | 192 | 11,501 | 30.3457 | 297 | 0.0003 | 0.7769 | 0.0129 | 19 |
| | | | 1600 | 60 | 36,480 | 192 | 11,501 | 30.3457 | 295 | 0.0003 | 0.7717 | 0.0129 | 19 |
| | | | 1700 | 60 | 36,540 | 192 | 11,501 | 30.3457 | 298 | 0.0003 | 0.7795 | 0.0130 | 19 |
| | | 11/12/2013 | 800 | 900 | 37,440 | 192 | 172,515 | 455.1853 | 307 | 0.0003 | 12.0458 | 0.0134 | 19 |
| | | | 1700 | 540 | 37,980 | 192 | 103,509 | 273.1112 | 301 | 0.0003 | 7.0862 | 0.0131 | 19 |
| | | | 800 | 900 | 38,880 | 192 | 172,515 | 455.1853 | 308 | 0.0003 | 12.0850 | 0.0134 | 19 |
| | | 11/13/2013 | 900 | 60 | 38,940 | 192 | 11,501 | 30.3457 | 304 | 0.0003 | 0.7952 | 0.0133 | 19 |
| | | | 1000 | 60 | 39,000 | 192 | 11,501 | 30.3457 | 307 | 0.0003 | 0.8031 | 0.0134 | 19 |
| | | | 1100 | 60 | 39,060 | 192 | 11,501 | 30.3457 | 308 | 0.0003 | 0.8057 | 0.0134 | 19 |
| | | | 1200 | 60 | 39,120 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | | 1300 | 60 | 39,180 | 192 | 11,501 | 30.3457 | 309 | 0.0003 | 0.8083 | 0.0135 | 19 |
| | | | 1400 | 60 | 39,240 | 192 | 11,501 | 30.3457 | 311 | 0.0003 | 0.8135 | 0.0136 | 20 |
| | | | 1500 | 60 | 39,300 | 192 | 11,501 | 30.3457 | 316 | 0.0003 | 0.8266 | 0.0138 | 20 |
| | | | 1600 | 60 | 39,360 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | | 1700 | 60 | 39,420 | 192 | 11,501 | 30.3457 | 308 | 0.0003 | 0.8057 | 0.0134 | 19 |
| | | | 800 | 900 | 40,320 | 192 | 172,515 | 455.1853 | 302 | 0.0003 | 11.8496 | 0.0132 | 19 |
| | | | 900 | 60 | 40,380 | 192 | 11,501 | 30.3457 | 298 | 0.0003 | 0.7795 | 0.0130 | 19 |
| | | | 1000 | 60 | 40,440 | 192 | 11,501 | 30.3457 | 293 | 0.0003 | 0.7664 | 0.0128 | 18 |
| | | | 1100 | 60 | 40,500 | 192 | 11,501 | 30.3457 | 305 | 0.0003 | 0.7978 | 0.0133 | 19 |
| | | | 1200 | 60 | 40,560 | 192 | 11,501 | 30.3457 | 314 | 0.0003 | 0.8214 | 0.0137 | 20 |
| | | | 1300 | 60 | 40,620 | 192 | 11,501 | 30.3457 | 310 | 0.0003 | 0.8109 | 0.0135 | 19 |
| | | 1400 | 60 | 40,680 | 192 | 11,501 | 30.3457 | 306 | 0.0003 | 0.8004 | 0.0133 | 19 | |
| | | 1500 | 60 | 40,740 | 192 | 11,501 | 30.3457 | 298 | 0.0003 | 0.7795 | 0.0130 | 19 | |
| | | 1600 | 60 | 40,800 | 192 | 11,501 | 30.3457 | 305 | 0.0003 | 0.7978 | 0.0133 | 19 | |
| | | 1700 | 60 | 40,860 | 192 | 11,501 | 30.3457 | 315 | 0.0003 | 0.8240 | 0.0137 | 20 | |
| | | 11/14/2013 | 800 | 900 | 41,760 | 190 | 171,087 | 451.4172 | 312 | 0.0003 | 12.1406 | 0.0135 | 19 |
| | | | 900 | 60 | 41,820 | 190 | 11,406 | 30.0945 | 323 | 0.0003 | 0.8379 | 0.0140 | 20 |
| | | | 1000 | 60 | 41,880 | 190 | 11,406 | 30.0945 | 309 | 0.0003 | 0.8016 | 0.0134 | 19 |
| | | | 1100 | 60 | 41,940 | 190 | 11,406 | 30.0945 | 302 | 0.0003 | 0.7834 | 0.0131 | 19 |
| | | | 1200 | 60 | 42,000 | 190 | 11,406 | 30.0945 | 314 | 0.0003 | 0.8146 | 0.0136 | 20 |
| | | | 1300 | 60 | 42,060 | 190 | 11,406 | 30.0945 | 309 | 0.0003 | 0.8016 | 0.0134 | 19 |
| | | | 1400 | 60 | 42,120 | 192 | 11,501 | 30.3457 | 307 | 0.0003 | 0.8031 | 0.0134 | 19 |
| | | | 1500 | 60 | 42,180 | 192 | 11,501 | 30.3457 | 302 | 0.0003 | 0.7900 | 0.0132 | 19 |
| | | | 1600 | 60 | 42,240 | 192 | 11,501 | 30.3457 | 308 | 0.0003 | 0.8057 | 0.0134 | 19 |
| | | | 1700 | 60 | 42,300 | 192 | 11,501 | 30.3457 | 305 | 0.0003 | 0.7978 | 0.0133 | 19 |

Table 6

**MPE Event
Extraction Data and VOC Mass Removal Rate
October-November 2013**
15101 Freedom Avenue
San Leandro, California

| MPE WELL | COMMENT | DATE | CLOCK TIME | INCREMENTAL TIME | ELAPSED TIME | Q | | | PID | | MASS REMOVAL | | |
|----------|---------------|-------------------|------------|------------------|---------------|------------|------------------|---------------|----------------------------------|------------------------|----------------|---------------|-------------------------------|
| | | | | | | minutes | minutes | SCFM | ft ³ of extracted air | Moles of extracted air | ppmv as hexane | VOC mole % | lb VOC mass removal as hexane |
| | | 11/15/2013 | 800 | 900 | 43,200 | 192 | 172,515 | 455.1853 | 284 | 0.0003 | 11.1433 | 0.0124 | 18 |
| | | | 900 | 60 | 43,260 | 192 | 11,501 | 30.3457 | 287 | 0.0003 | 0.7507 | 0.0125 | 18 |
| | | | 1000 | 60 | 43,320 | 192 | 11,501 | 30.3457 | 281 | 0.0003 | 0.7350 | 0.0123 | 18 |
| | | | 1100 | 60 | 43,380 | 192 | 11,501 | 30.3457 | 290 | 0.0003 | 0.7586 | 0.0126 | 18 |
| | | | 1200 | 60 | 43,440 | 192 | 11,501 | 30.3457 | 287 | 0.0003 | 0.7507 | 0.0125 | 18 |
| | | | 1300 | 60 | 43,500 | 192 | 11,501 | 30.3457 | 294 | 0.0003 | 0.7690 | 0.0128 | 18 |
| | STOP | | 1400 | 60 | 43,560 | 192 | 11,501 | 30.3457 | 296 | 0.0003 | 0.7743 | 0.0129 | 19 |
| | TOTAL | | | | 43,560 | | 8,220,874 | 21,691 | | | 790 | 0.0181 | 26 |
| | MEDIAN | | | | | 192 | | | 340 | 0.0003 | | | |

Notes

Q volumetric flow rate
 SCFM standard cubic feet per minute
 ft³ cubic feet per minute
 VOC volatile organic compounds
 PID photo-ionization detector
 ppmv parts per million vapor

DERIVATION OF MASS REMOVAL RATE

ppmv as hexane/1,000,000 = VOC mole %
 $\text{ft}^3 \text{ of extracted air} / (379 \text{ ft}^3 \text{ air/lb-mole air}) = \text{moles of extracted air}$
 $(\text{moles of extracted air})(\text{VOC mole \%})(86.2 \text{ lb/lb-mole hexane}) = \text{lbs of VOC removed as hexane}$
 $(\text{lbs of VOC mass removed as hexane})(\text{elapsed time}) = \text{lbs/min of VOC removed as hexane}$
 $(\text{lbs/min of VOC removed as hexane})(60 \text{ min/1 hour})(24 \text{ hours/1 day}) = \text{lbs/day of VOC removed as hexane}$

**Table 7
SVE Abatement System Emissions
15101 Freedom Avenue, San Leandro, CA**

| Operation Start Date/Time | Onboard Analyzer Sample Date/Time | Onboard Analyzer | | Lab Sample Date/Time | USEPA TO-3 MODIFIED | | USEPA TO-15 MODIFIED | | Q (SCFM) | Abatement Efficiency | Emissions Rate Benzene (lbs/day) |
|---------------------------|-----------------------------------|----------------------------------------------|--------|----------------------|---------------------|--------|----------------------|---------|----------|----------------------|----------------------------------|
| | | Hydrocarbons (TPH-g + BTEX) (ppmv as hexane) | | | TPH-g (ppmv) | | Benzene (ppmv) | | | | |
| | | Inlet | Outlet | | Inlet | Outlet | Inlet | Outlet | | | |
| 10/15/13 @ 11:30 | 10/16/13 @ 11:00 | 671 | 0 | 10/16/13 @ 11:00 | 270 | 0.14 | 0.92 | <0.0005 | 149 | 100.0% | NA |

SCFM standard cubic feet per minute

lbs/day pounds per day

Appendix A

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Standard Operating Procedures for Conducting Groundwater Monitoring Activities

Water Level and Free-Product Measurements

Prior to measurement of groundwater depth at each well, equalization with the surrounding aquifer must be achieved. Initially, the well cap is removed and the pressure is allowed to dissipate, creating a more stable water table level within the well. After about 10-15 minutes, once the water level in the well stabilizes, the depth to groundwater is measured from the top of the casing to the nearest 0.01 foot using an electric sounder.

For free-product (FP) measurement, an oil-water interface probe is used. When the probe is lowered into the FP, the oil/water light and beeper are continuously on at which point a reading for depth to FP is noted. The probe is lowered further into the well until the water signal is given (light flashes and beeps intermittently). Then the probe is carefully raised until the FP signal is given and the reading is noted. This gives the depth to interface of product and water.

Purging and Field Measurements

Prior to sample collection, each well is purged using a battery-operated, 2-inch-diameter pump (Model ES-60 DC). During purging, groundwater is measured for parameters such as dissolved oxygen (DO), pH, temperature, electrical conductivity (EC), and oxygen-reduction potential (ORP) using a Hanna HI-9828 multi-parameter instrument. Turbidity is measured using a Hanna HI-98703 portable turbidimeter. The equipment is calibrated at the site using standard solutions and procedures provided by the manufacturer.

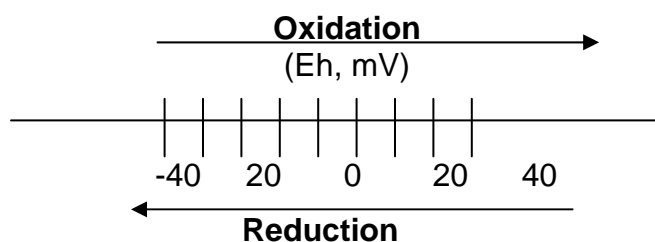
The pH of groundwater has an effect on the activity of microbial populations in the groundwater. The groundwater temperature affects the metabolic activity of bacteria. The groundwater EC is directly related to the concentration of total dissolved solids (TDS) in solution.

There is a strong correlation between the turbidity level and the biological oxygen demand of natural water bodies. The main purpose for checking the turbidity level is to provide a general overview of the extent of the suspended solids in the groundwater.

ORP is the measure of the potential for an oxidation or reduction process to occur. In the oxidation process, a molecule or ion loses one or several electrons. In the reduction process, a molecule or ion gains one or several electrons. The unit of the redox potential is the volt or millivolt. The most important redox reaction in petroleum-contaminated groundwater is the oxidation of petroleum hydrocarbons in the presence of bacteria and free molecular oxygen. Because the solubility of O₂ in water is low (9 mg/L at 25 °C and 11 mg/L at 5 °C), and

because the rate of O₂ replenishment in subsurface environments is limited, DO can be entirely consumed when the oxidation of only a small amount of petroleum hydrocarbons occurs.

Oxidation of petroleum hydrocarbons can still occur when all the dissolved O₂ in the groundwater is consumed; however, the oxidizing agents (i.e., the constituents that undergo reduction) now become NO₃⁻, MnO₂, Fe (OH)₃, SO₄²⁻ and others (Freeze and Cherry, 1979). As these oxidizing agents are consumed, the groundwater environment becomes more and more reduced. If the process advances far enough, the environment may become so strongly reduced that the petroleum hydrocarbons undergo anaerobic degradation, resulting in the production of methane and carbon dioxide. The concept of oxidation and reduction in terms of changes in oxidation states is illustrated below.



Purging of wells continues until the parameters for DO, pH, temperature, EC, turbidity, and redox stabilize, or three casing volumes are purged.

Once stabilization occurs, the groundwater samples are also tested on-site for ferrous iron (Fe⁺²), nitrate (NO₃⁻), and sulfate (SO₄⁻²) concentrations.

Fe⁺², NO₃⁻, and SO₄⁻² are measured colorimetrically using the Hach Colorimeter Model 890, a microprocessor-controlled photometer suitable for colorimetric testing in the laboratory or the field. The required reagents for each specific test are provided in AccuVac ampuls.

Sampling

For sampling purposes, after purging a disposable polyethylene bailer is used to collect sufficient samples from each monitoring well for laboratory analyses. Groundwater samples are transferred into 40-mL VOA vials and preserved with hydrochloric acid. The vials are sealed to prevent air bubbles from developing within the headspace. For TPH-d analysis, groundwater samples are collected using 1-L, amber, non-preserved glass containers. Samples are placed in an ice-filled cooler and maintained at 4°C. A chain of custody form for all samples is prepared to accompany the samples, which are promptly delivered to a California state-certified analytical laboratory.

Appendix B

Table of Elevations and Coordinates on Monitoring Wells,
Field Measurements of Physical, Chemical, and Natural
Attenuation Parameters of Groundwater Samples, and
Groundwater Gradient Calculations

DATE: 1/08/2008
 JOB NUMBER 0208101
 DATE OF SURVEY 1/03/08
 INSTRUMENT LIECA SR520

TABLE OF ELEVATIONS & COORDINATES
 ON MONITORING WELLS
 SOMA ENVIRONMENTAL, PROJECT 15101 FREEDOM DRIVE - SAN LEANDRO

| WELL ID# | NORTHING (ft.) LATITUDE | EASTING (ft.) LONGITUDE | ELEVATION (ft.) | DESCRIPTION |
|----------|----------------------------|----------------------------|-----------------|-------------|
| MW-1D | 2084371.23 | 6092127.90 | 54.42 | MW-1D NOTCH |
| | 37.708104856 | 122.123200912 | 54.94 | MW-1D RIM |
| | 37° 42' 29.1" N | 122° 07' 23" W | 54.74 | PAVEMENT |
| | | | | |
| MW-3D | 2084303.98 | 6092183.53 | 54.10 | MW-3D NOTCH |
| | 37.707922851 | 122.123004590 | 54.56 | MW-3D RIM |
| | 37° 42' 28.5" N | 122° 07' 22" W | 54.47 | PAVEMENT |
| | | | | |
| MW-4D | 2084222.77 | 6092116.37 | 53.12 | MW-4D NOTCH |
| | 37.707696648 | 122.123231858 | 53.37 | MW-4D RIM |
| | 37° 42' 27.7" N | 122° 07' 23" W | 53.39 | PAVEMENT |
| | | | | |

BENCH MARK: NGS BENCH MARK NO. HT1871

3.0 KM (1.85 MI) NORTH FROM SAM LORENZO. 1.85 MILES NORTH ALONG INTERSTATE HIGHWAY 580 FROM THE JUNCTION OF STATE HIGHWAY 238 IN SAN LORENZO, IN THE WEST CORNER OF THE CROSSING OF 150TH AVENUE, IN TOP OF THE CONCRETE BRIDGE DECK, 15.5 FEET NORTHWEST OF THE SOUTHWEST BOUND LANES OF THE AVENUE, 10.9 FEET NORTHEAST OF THE SOUTH CORNER OF THE SOUTHWEST END OF THE NORTHWEST CONCRETE GUARDRAIL, 0.7 FOOT NORTHEAST OF THE SOUTHWEST EDGE OF THE DECK, 0.9 FOOT SOUTHEAST OF THE NORTHWEST CONCRETE GUARDRAIL, AND ABOUT LEVEL WITH THE HIGHWAY.

ELEVATION = 58.50 NAVD 88 DATUM

HORIZONTAL AND VERTICAL CONTROL BASED ON HARRINGTON SURVEY DATED 10-12-2004

FD CHABOT A, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,088,584.99 EAST 6,093,351.39. LAT N 37°43'11.04190" LONG W 122°07'09.20691", ELEVATION 492.08 NAVD 88.

FD CHABOT B, CALIFORNIA STATE PLAIN COORDINATE SYSTEM, NAD 83, ZONE 3. NORTH 2,087,731.02 EAST 6,094,039.23. . LAT N 37°43'02.71762" LONG W 122°07'00.46339", ELEVATION 442.77 NAVD 88.

DATE: 12/11/2009

JOB# 09039

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS**

SOMA ENVIRONMENTAL ENGINEERING
15101 FREEDOM AVENUE
SAN LEANDRO, CA 94579

| WELL ID # | NORTHING (FT.) / LATITUDE (D.DEG.) | EASTING (FT.) / LONGITUDE (D.DEG.) | ELEVATION (FT.) | DESCRIPTION |
|-----------|---------------------------------------|---------------------------------------|-----------------|--------------------------|
| EX-1 | 2084135.454 | 6092163.720 | 47.36 | 4" PVC NOTCH NORTH SIDE |
| | 37.707459134 | 122.123062972 | 47.61 | SET PUNCH NORTH SIDE RIM |
| | | | 47.60 | PAVEMENT NORTH SIDE |
| EX-2 | 2084082.018 | 6092130.224 | 45.96 | 4" PVC NOTCH NORTH SIDE |
| | 37.707310806 | 122.123175540 | 47.04 | SET PUNCH NORTH SIDE RIM |
| | | | 47.00 | CONCRETE NORTH SIDE |
| MPE-1 | 2084213.168 | 6092125.258 | 51.96 | 4" PVC NOTCH NORTH SIDE |
| | 37.707670702 | 122.123200567 | 52.49 | SET PUNCH NORTH SIDE RIM |
| | | | 52.51 | CONCRETE NORTH SIDE |
| MPE-2 | 2084293.133 | 6092171.374 | 53.72 | 4" PVC NOTCH NORTH SIDE |
| | 37.707892479 | 122.123045970 | 54.29 | SET PUNCH NORTH SIDE RIM |
| | | | 54.27 | PAVEMENT NORTH SIDE |

HORIZONTAL AND VERTICAL CONTROL

SURVEY BASED ON PREVIOUS SURVEY BY HARRINGTON SURVEY INC. DATED: 2/21/2008
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

MW-2, PUNCH

NORTHING 2,084323.44, EASTING 6,092063.77, ELEVATION 52.92

MW-4 PUNCH

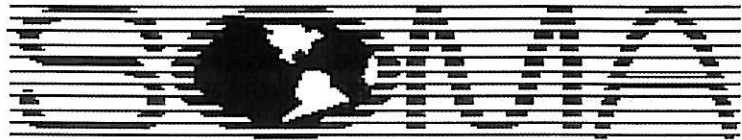
NORTHING 2,084250.55, EASTING 6,092124.46, ELEVATION 53.74

EQUIPMENT USED: TRIMBLE S6

Edgis Land Surveying
Land Surveying and mapping
1374 Garland Avenue, Clovis, CA 93612
Phone (559) 906-3554 Fax (559) 292-0560
email: edgis@aol.com



Eduardo A. Espinoza
1 of 1



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-1
 Casing Diameter: 4 inches
 Depth of Well: 30.50 feet
 Top of Casing Elevation: 54.46 feet
 Depth to Groundwater: 24.16 feet
 Groundwater Elevation: 30.30 feet
 Water Column Height: 6.34 feet
 Purged Volume: 12 gallons

Project No.: 2551
 Address: 15101 Freedom Avenue
 San Leandro, CA
 Date: December 6, 2013
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

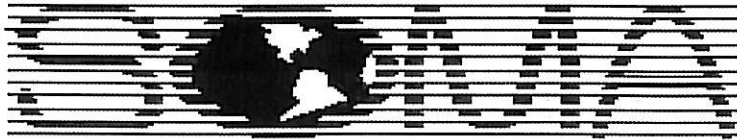
Color: Yes No Describe: _____

Sheen: Yes No Describe: _____

Odor: Yes No Describe: Petro Odor

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|----------------------|-----------|------|---------|--------------|-----------|-------|
| 10:51 | Started purging well | | | | | | |
| 10:52 | 2 | 1.99 | 6.55 | 19.35 | 1031 | 15.3 | -31.0 |
| 10:54 | 6 | 1.13 | 6.53 | 19.49 | 1041 | 19.1 | -36.6 |
| 10:56 | 10 | 0.77 | 6.56 | 19.42 | 1149 | 17.5 | -42.1 |
| 10:57 | 12 | 0.71 | 6.56 | 19.38 | 1153 | 15.6 | -45.2 |
| 11:02 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-2
 Casing Diameter: 4 inches
 Depth of Well: 30.15 feet
 Top of Casing Elevation: 52.41 feet
 Depth to Groundwater: 22.52 feet
 Groundwater Elevation: 30.16 feet
 Water Column Height: 7.63 feet
 Purged Volume: 12 gallons

Project No.: 2551
 Address: 15101 Freedom Avenue
 San Leandro, CA
 Date: December 6 2013
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: Yes No Describe: _____

Sheen: Yes No Describe: _____

Odor: Yes No Describe: Slight Petro

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|----------------------|-----------|------|---------|--------------|-----------|-------|
| 10:24 | Started purging well | | | | | | |
| 10:25 | 2 | 1.41 | 6.71 | 19.29 | 1264 | 20.5 | -43.2 |
| 10:27 | 6 | 1.01 | 6.62 | 19.63 | 1052 | 19.5 | -69.7 |
| 10:29 | 10 | 0.87 | 6.61 | 19.67 | 1032 | 22.7 | -77.6 |
| 10:30 | 12 | 0.74 | 6.64 | 19.63 | 1025 | 18.0 | -77.5 |
| 10:35 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-3 Project No.: 2551
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue
 Depth of Well: 29.90 feet San Leandro, CA
 Top of Casing Elevation: 53.91 feet Date: December 6, 2013
 Depth to Groundwater: 23.76 feet Sampler: Lizzie Hightower
 Groundwater Elevation: 30.15 feet
 Water Column Height: 6.14 feet
 Purged Volume: 12 gallons

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: Yes No Describe: Cloudy
 Sheen: Yes No Describe: Slight Rainbow Sheen
 Odor: Yes No Describe: Petro odor

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|------------------|-----------|------|---------|--------------|-----------|-------|
| 11:14 | Started | | | | | | |
| 11:15 | 2 | 1.71 | 6.67 | 20.14 | 1122 | 58.8 | -37.7 |
| 11:17 | 6 | 0.99 | 6.68 | 20.27 | 1118 | 51.6 | -50.6 |
| 11:19 | 10 | 0.67 | 6.67 | 20.21 | 1128 | 67.4 | -56.3 |
| 11:20 | 12 | 0.61 | 6.68 | 20.20 | 1131 | 62.6 | -58.7 |
| 11:25 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-4
 Casing Diameter: 4 inches
 Depth of Well: 30.20 feet
 Top of Casing Elevation: 53.31 feet
 Depth to Groundwater: 23.60 feet
 Groundwater Elevation: 29.71 feet
 Water Column Height: 6.60 feet
 Purged Volume: 12 gallons

Project No.: 2551
 Address: 15101 Freedom Avenue
 San Leandro, CA
 Date: December 6, 2013
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: Yes No Describe: Cloudy

Sheen: Yes No Describe: _____

Odor: Yes No Describe: Slight Petro

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|----------------------|-----------|------|---------|--------------|-----------|-------|
| 09:57 | Started purging well | | | | | | |
| 09:58 | 2 | 2.53 | 6.61 | 18.97 | 1271 | 38.1 | -10.3 |
| 10:00 | 6 | 1.56 | 6.51 | 19.04 | 1286 | 31.5 | -11.7 |
| 10:02 | 10 | 1.15 | 6.56 | 19.02 | 1325 | 33.0 | -12.0 |
| 10:03 | 12 | 1.09 | 6.57 | 19.01 | 1335 | 42.4 | -11.8 |
| 10:08 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-5 Project No.: 2551
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue
 Depth of Well: 29.80 feet San Leandro, CA
 Top of Casing Elevation: 50.53 feet Date: December 6, 2013
 Depth to Groundwater: 20.86 feet Sampler: Lizzie Hightower
 Groundwater Elevation: 29.67 feet
 Water Column Height: 8.94 feet
 Purged Volume: 12 gallons

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

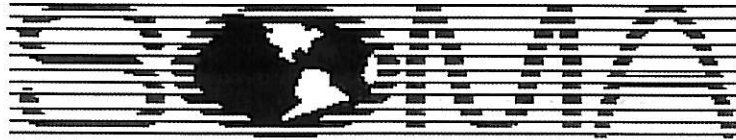
Color: Yes No Describe: Slightly Cloudy

Sheen: Yes No Describe: _____

Odor: Yes No Describe: Petro odor

Field Measurements:

| Time | Volume (gallons) | D.O. (mg/L) | pH | Temp (°C) | E.C. (µS/cm) | Turb. (NTU) | ORP |
|-------|----------------------|-------------|------|-----------|--------------|-------------|--------|
| 11:38 | Started purging well | | | | | | |
| 11:39 | 2 | 1.30 | 7.04 | 20.49 | 730 | 23.2 | -100.0 |
| 11:41 | 6 | 0.81 | 7.04 | 20.81 | 733 | 19.7 | -104.9 |
| 11:43 | 10 | 0.68 | 7.03 | 20.83 | 739 | 24.2 | -108.2 |
| 11:44 | 12 | 0.60 | 7.01 | 20.82 | 747 | 16.7 | -110.6 |
| 11:49 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

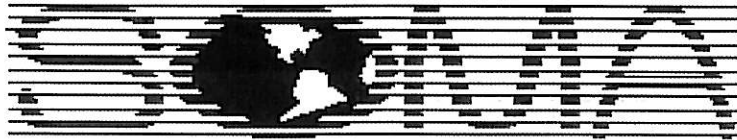
Well No.: MW-6 Project No.: 2551
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue
 Depth of Well: 27.30 feet San Leandro, CA
 Top of Casing Elevation: 45.82 feet Date: December 5, 2013
 Depth to Groundwater: 18.75 feet Sampler: Lizzie Hightower
 Groundwater Elevation: 27.07 feet
 Water Column Height: 8.55 feet
 Purged Volume: 14 gallons

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump

Color: Yes No Describe: Slightly Cloudy
 Sheen: Yes No Describe: Rainbow Sheen
 Odor: Yes No Describe: Slight Petro Odor

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|----------------------|-----------|------|---------|--------------|-----------|-------|
| 13:53 | Started purging well | | | | | | |
| 13:54 | 2 | 2.43 | 6.58 | 20.02 | 1336 | 28.1 | -68.3 |
| 13:55 | 4 | 1.85 | 6.64 | 20.24 | 1327 | 23.4 | -74.4 |
| 13:57 | 8 | 1.14 | 6.66 | 20.35 | 1333 | 24.6 | -75.5 |
| 13:59 | 12 | 0.92 | 6.67 | 20.30 | 1337 | 23.0 | -74.4 |
| 14:00 | 14 | 0.90 | 6.66 | 20.26 | 1342 | 21.4 | -73.5 |
| 14:05 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MPE-2 Project No.: 2551
 Casing Diameter: 4 inches Address: 15101 Freedom Avenue
 Depth of Well: 30.00 feet San Leandro, CA
 Top of Casing Elevation: 53.72 feet Date: December 5, 2013
 Depth to Groundwater: 23.73 feet Sampler: Lizzie Hightower
 Groundwater Elevation: 29.99 feet *30.07 feet
 Water Column Height: 6.27 feet
 Purged Volume: - gallons
Not purged

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump Not sampled

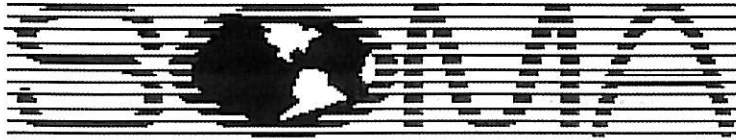
Color: Yes No Describe: Unknown
 Sheen: Yes No Describe: Free Product
 Odor: Yes No Describe: Strong Petro

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|------|------------------|-----------|----|---------|--------------|-----------|-----|
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Depth to Free Product: 23.61 ft.
 0.12 feet of FP.

* Elevation adjusted for FP



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-1D
 Casing Diameter: 2 inches
 Depth of Well: 59.81 feet
 Top of Casing Elevation: 54.42 feet
 Depth to Groundwater: 24.31 feet
 Groundwater Elevation: 30.11 feet
 Water Column Height: 35.50 feet
 Purged Volume: 14 gallons

Project No.: 2551
 Address: 15101 Freedom Avenue
 San Leandro, CA
 Date: December 5, 2013
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

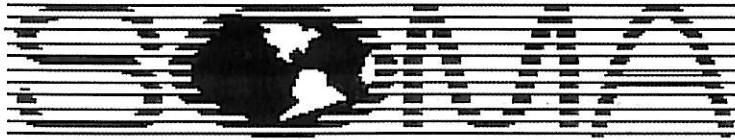
Color: Yes No Describe: Slightly Cloudy

Sheen: Yes No Describe: _____

Odor: Yes No Describe: _____

Field Measurements:

| Time | Volume (gallons) | D.O. (mg/L) | pH | Temp (°C) | E.C. (µS/cm) | Turb. NTU | ORP |
|-------|----------------------|-------------|------|-----------|--------------|-----------|------|
| 15:02 | Started purging well | | | | | | |
| 15:03 | 2 | 2.56 | 7.32 | 18.36 | 1182 | 15.0 | +3.3 |
| 15:05 | 6 | 1.48 | 7.30 | 18.43 | 1183 | 24.5 | +1.5 |
| 15:07 | 10 | 1.04 | 7.30 | 18.45 | 1184 | 25.6 | +3.6 |
| 15:09 | 14 | 0.87 | 7.29 | 18.47 | 1184 | 232 | +5.2 |
| 15:14 | Sampled | | | | | | |



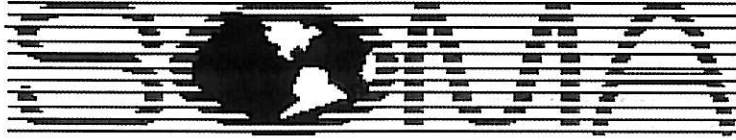
ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-3D Project No.: 2551
 Casing Diameter: 2 inches Address: 15101 Freedom Avenue
 Depth of Well: 59.81 feet San Leandro, CA
 Top of Casing Elevation: 54.10 feet Date: December 5, 2013
 Depth to Groundwater: 23.97 feet Sampler: Lizzie Hightower
 Groundwater Elevation: 30.13 feet
 Water Column Height: 35.84 feet
 Purged Volume: 14 gallons

Purging Method: Bailer Pump
 Sampling Method: Bailer Pump
 Color: Yes No Describe: _____
 Sheen: Yes No Describe: _____
 Odor: Yes No Describe: _____

Field Measurements:

| Time | Volume (gallons) | D.O. mg/L | pH | Temp °C | E.C. (µS/cm) | Turb. NTU | ORP |
|------------------------|----------------------|-----------|------|---------|--------------|-----------|-------|
| 15:33 MW-3D | Started purging well | | | | | | |
| 15:34 | 2 | 1.81 | 7.42 | 18.52 | 1063 | 16.9 | +21.5 |
| 15:36 | 6 | 1.07 | 7.23 | 18.60 | 1163 | 10.8 | +22.3 |
| 15:38 | 10 | 0.88 | 7.19 | 18.63 | 1182 | 15.5 | +25.0 |
| 15:40 | 14 | 0.74 | 7.16 | 18.64 | 1193 | 11.7 | +28.3 |
| 15:45 | Sampled | | | | | | |



ENVIRONMENTAL ENGINEERING, INC

Well No.: MW-4D
 Casing Diameter: 2 inches
 Depth of Well: 58.79 feet
 Top of Casing Elevation: 53.12 feet
 Depth to Groundwater: 23.43 feet
 Groundwater Elevation: 29.69 feet
 Water Column Height: 35.36 feet
 Purged Volume: 14 gallons

Project No.: 2551
 Address: 15101 Freedom Avenue
 San Leandro, CA
 Date: December 6, 2013
 Sampler: Lizzie Hightower

Purging Method: Bailer Pump

Sampling Method: Bailer Pump

Color: Yes No Describe: _____

Sheen: Yes No Describe: _____

Odor: Yes No Describe: _____

Field Measurements:

| Time | Volume (gallons) | D.O. (mg/L) | pH | Temp (°C) | E.C. (µS/cm) | Turb. (NTU) | ORP |
|-------|----------------------|-------------|------|-----------|--------------|-------------|-------|
| 09:30 | Started purging well | | | | | | |
| 09:31 | 2 | 3.73 | 7.08 | 17.95 | 1167 | 16.1 | +65.1 |
| 09:33 | 6 | 2.33 | 7.14 | 18.00 | 1173 | 15.0 | +69.2 |
| 09:35 | 10 | 1.52 | 7.14 | 18.03 | 1175 | 43.0 | +72.0 |
| 09:37 | 14 | 1.34 | 7.17 | 18.05 | 1175 | 20.0 | +75.0 |
| 09:42 | Sampled | | | | | | |

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Dissolved Oxygen (mg/L) | pH | Temperature °C | Electrical Conductivity µS/cm | Turbidity NTU | ORP |
|-----------------|------------------|-------------------------|-------------|----------------|-------------------------------|---------------|--------------|
| 1st WBZ | | | | | | | |
| MW-1 | 8/27/2009 | 0.38 | 6.32 | 20.8 | 1357 | 4.69 | -95.7 |
| | 12/2/2009 | 0.15 | 6.4 | 20.82 | 1261 | 6.19 | -136.4 |
| | 3/17/2010 | 0.58 | 5.68 | 20.97 | 1186 | 7.00 | -155.9 |
| | 6/3/2010 | 0.91 | 6.11 | 20.81 | 1285 | 2.49 | -131.6 |
| | 9/2/2010 | 0.92 | 6.04 | 20.66 | 1361 | 2.46 | -86.4 |
| | 12/2/2010 | 0.97 | 5.96 | 20.74 | 1309 | 4.32 | -119.7 |
| | 3/4/2011 | 1.4 | 6.69 | 20.96 | 1169 | 1.98 | -101.2 |
| | 5/20/2011 | 1.51 | 6.22 | 20.68 | 1305 | 1.85 | -164.5 |
| | 9/9/2011 | 1.73 | 6.02 | 20.53 | 1320 | 4.63 | -179.2 |
| | 3/2/2012 | 1.39 | 6.53 | 20.84 | 1309 | 12.00 | -204.4 |
| | 6/7/2012 | 0.89 | 6.51 | 20.00 | 1234 | 3.92 | -20.0 |
| | 9/21/2012 | 0.55 | 6.12 | 19.96 | 1313 | 5.98 | -31.4 |
| | 12/14/2012 | 0.63 | 6.6 | 19.71 | 1314 | 6.56 | -99.2 |
| | 3/28/2013 | 1.07 | 6.4 | 20.67 | 1307 | 5.93 | -70.5 |
| | 6/11/2013 | 0.71 | 6.52 | 20.43 | 1284 | 11.10 | -49.4 |
| | 9/17/2013 | 1.56 | 6.44 | 20.47 | 1225 | 16.90 | 2.5 |
| | 12/6/2013 | 0.71 | 6.56 | 19.38 | 1153 | 15.60 | -45.2 |
| MW-2 | 8/27/2009 | 0.43 | 6.57 | 20.72 | 1530 | 2.59 | -168.1 |
| | 12/1/2009 | 0.48 | 6.75 | 21.12 | 1297 | 5.01 | -191.3 |
| | 3/17/2010 | 0.51 | 5.78 | 21.08 | 1025 | 5.65 | -108 |
| | 6/3/2010 | 0.62 | 6.28 | 20.84 | 930 | 2.66 | -150.2 |
| | 9/2/2010 | 0.66 | 6.29 | 20.73 | 1269 | 2.67 | -174.2 |
| | 12/2/2010 | 0.63 | 6.06 | 20.94 | 1439 | 2062 | -162.4 |
| | 3/4/2011 | 1.55 | 6.84 | 20.91 | 815 | 3.34 | -87.8 |
| | 5/20/2011 | 1.22 | 6.39 | 20.59 | 981 | 2.58 | -185.9 |
| | 9/9/2011 | 1.67 | 5.89 | 20.48 | 1303 | 6.19 | -157.7 |
| | 3/2/2012 | 1.98 | 6.37 | 20.83 | 1014 | 11.8 | -204.5 |
| | 6/7/2012 | 0.93 | 6.53 | 19.87 | 877 | 4.64 | -22.9 |
| | 9/21/2012 | 0.63 | 5.97 | 20.01 | 1359 | 7.56 | -55.0 |
| | 12/14/2012 | 1.06 | 6.67 | 19.91 | 1067 | 7.75 | -82.3 |
| | 3/28/2013 | 1.35 | 6.46 | 20.59 | 1107 | 5.98 | -88.0 |
| | 6/11/2013 | 0.5 | 6.61 | 20.44 | 1118 | 20.9 | -42.7 |
| | 9/16/2013 | 1.04 | 6.68 | 20.82 | 1276 | 17.1 | -51.3 |
| | 12/6/2013 | 0.74 | 6.64 | 19.63 | 1025 | 18 | -77.5 |
| MW-3 | 8/27/2009 | 1.90 | 6.36 | 20.82 | 1318 | 5.57 | -119.3 |
| | 12/2/2009 | 1.80 | 6.52 | 20.94 | 1239 | 5.88 | -206.6 |
| | 3/17/2010 | 1.60 | 5.78 | 21.28 | 1080 | 5.37 | -166.4 |
| | 6/3/2010 | 1.05 | 6.24 | 21.16 | 1130 | 2.03 | -134.8 |
| | 9/2/2010 | 1.17 | 6.18 | 21.04 | 1256 | 2.86 | -131.2 |
| | 12/2/2010 | 1.27 | 6.06 | 21.03 | 1152 | 1.83 | -171.9 |
| | 3/4/2011 | 1.26 | 6.77 | 21.18 | 1074 | 3.57 | -109.8 |
| | 5/20/2011 | 1.04 | 6.4 | 20.9 | 1180 | 2.72 | -220.1 |
| | 9/9/2011 | 1.05 | 6.13 | 20.74 | 1272 | 3.23 | -179.4 |
| | 3/2/2012 | 1.72 | 6.58 | 20.87 | 1120 | 12.00 | -162.7 |
| | 6/7/2012 | 0.54 | 6.66 | 20.13 | 1057 | 3.11 | -20.9 |
| | 9/21/2012 | 0.60 | 6.08 | 20.04 | 1229 | 8.61 | -74.9 |
| | 12/14/2012 | 0.53 | 6.66 | 19.81 | 1017 | 7.42 | -59.3 |
| | 3/28/2013 | 0.90 | 6.49 | 20.71 | 1188 | 7.83 | -56.8 |
| | 6/11/2013 | 0.38 | 6.64 | 20.67 | 1280 | 96.3 | -39.6 |
| | 9/17/2013 | 0.94 | 6.64 | 20.93 | 1203 | 108 | -44.7 |
| | 12/6/2013 | 0.61 | 6.68 | 20.2 | 1131 | 62.6 | -58.7 |
| MW-4 | 8/27/2009 | 2.90 | 6.26 | 20.11 | 1649 | 2.78 | -115.5 |
| | 12/2/2009 | 0.87 | 6.4 | 20.12 | 1578 | 5.06 | -173.2 |

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Dissolved Oxygen (mg/L) | pH | Temperature °C | Electrical Conductivity µS/cm | Turbidity NTU | ORP |
|-----------------|------------------|-------------------------|-------------|----------------|-------------------------------|---------------|---------------|
| MW-4 cont. | 3/17/2010 | 2.30 | 5.63 | 20.39 | 1506 | 4.01 | -119.4 |
| | 6/3/2010 | 1.90 | 6.14 | 20.45 | 1418 | 1.56 | -131.8 |
| | 9/2/2010 | 1.80 | 6.06 | 20.21 | 1305 | 1.45 | -101.5 |
| | 12/2/2010 | 1.63 | 5.89 | 20.28 | 1465 | 102 | -180 |
| | 3/3/2011 | 1.89 | 6.66 | 20.47 | 1278 | 0.97 | -90.5 |
| | 5/19/2011 | 1.78 | 6.42 | 20.51 | 1251 | 1.5 | -168.3 |
| | 9/8/2011 | 1.77 | 6.27 | 20.32 | 1430 | 3.82 | -157.4 |
| | 3/2/2012 | 1.55 | 6.39 | 20.21 | 1486 | 8.00 | -165.9 |
| | 6/7/2012 | 0.58 | 6.58 | 19.53 | 1315 | 2.62 | -0.3 |
| | 9/21/2012 | 0.48 | 6.08 | 19.49 | 1425 | 5.12 | -82.6 |
| | 12/14/2012 | 0.62 | 6.58 | 19.12 | 1216 | 5.42 | -46 |
| | 3/28/2013 | 0.94 | 6.54 | 19.99 | 1350 | 5.03 | -35.1 |
| | 6/11/2013 | 0.81 | 6.47 | 20.06 | 1372 | 16.20 | -3 |
| | 9/17/2013 | 1.18 | 6.5 | 20.01 | 1353 | 11.70 | 3.8 |
| | 12/6/2013 | 1.09 | 6.57 | 19.01 | 1335 | 42.40 | -11.8 |
| MW-5 | 8/27/2009 | 1.00 | 6.38 | 20.8 | 1321 | 6.63 | -91.9 |
| | 12/2/2009 | 1.50 | 6.47 | 21.03 | 1227 | 5.66 | -109.1 |
| | 3/17/2010 | 1.10 | 5.82 | 21.28 | 1150 | 75.3 | -60.7 |
| | 6/4/2010 | 1.10 | 5.99 | 20.87 | 1128 | 3.84 | -33.8 |
| | 9/2/2010 | 1.03 | 6.16 | 21.22 | 1178 | 13.0 | -168.4 |
| | 12/2/2010 | 1.05 | 6.02 | 21.46 | 1112 | 12.3 | -167.7 |
| | 3/4/2011 | 1.11 | 6.89 | 21.46 | 1078 | 4.59 | -106.9 |
| | 5/20/2011 | 1.18 | 6.47 | 21.02 | 1106 | 26.5 | -222.5 |
| | 9/9/2011 | 1.14 | 6.2 | 21.07 | 1194 | 5.83 | -215.4 |
| | 3/2/2012 | 1.70 | 6.72 | 21.34 | 1187 | 11.7 | -228.6 |
| | 6/7/2012 | 0.40 | 6.68 | 20.29 | 1200 | 5.35 | -50.7 |
| | 9/21/2012 | 0.44 | 6.24 | 20.73 | 1164 | 9.74 | 33.0 |
| | 12/14/2012 | 0.52 | 6.76 | 20.7 | 1173 | 17 | -126.5 |
| | 3/28/2013 | 1.01 | 6.59 | 21.24 | 1068 | 6.39 | -141.5 |
| 6/11/2013 | 0.50 | 6.69 | 20.94 | 1016 | 17 | -44.8 | |
| 9/17/2013 | 0.65 | 6.85 | 21.44 | 1165 | 20.9 | -64.7 | |
| | 12/6/2013 | 0.60 | 7.01 | 20.82 | 747 | 16.7 | -110.6 |
| MW-6 | 8/26/2009 | 0.42 | 6.47 | 20.93 | 1201 | 6.53 | -172.3 |
| | 12/1/2009 | 0.26 | 6.89 | 21.64 | 1171 | 6.83 | -207.9 |
| | 3/16/2010 | 0.63 | 5.91 | 21.26 | 1544 | 6.72 | -168.2 |
| | 6/3/2010 | 0.58 | 6.38 | 20.74 | 1346 | 2.61 | -116.4 |
| | 9/1/2010 | 0.41 | 6.44 | 20.86 | 1419 | 2.77 | -120.3 |
| | 12/2/2010 | 0.37 | 6.24 | 21.17 | 1362 | 4.5 | -148 |
| | 3/3/2011 | 1.54 | 6.81 | 21 | 1262 | 1.87 | -98.3 |
| | 5/20/2011 | 1.23 | 6.62 | 20.51 | 1312 | 2.53 | -221.1 |
| | 9/8/2011 | 1.07 | 6.2 | 20.84 | 1292 | 5.17 | -167.9 |
| | 3/2/2012 | 1.10 | 6.55 | 21.03 | 1197 | 13.2 | -166.4 |
| | 6/6/2012 | 1.18 | 6.78 | 19.82 | 1091 | 3.46 | -32.8 |
| | 9/20/2012 | FP | FP | FP | FP | FP | FP |
| | 12/13/2012 | 1.47 | 6.72 | 21.05 | 1231 | 9.99 | -46.2 |
| | 3/27/2013 | 1.53 | 6.58 | 20.81 | 1179 | 6.82 | -54.9 |
| 6/10/2013 | 0.70 | 6.64 | 20.55 | 1209 | 13 | -13.9 | |
| 9/16/2013 | FP | FP | FP | FP | FP | FP | |
| | 12/5/2013 | 0.90 | 6.66 | 20.26 | 1342 | 21.4 | -73.5 |
| MW-7 | 8/26/2009 | 0.98 | 6.36 | 19.24 | 1375 | 145 | -128.3 |
| | 12/1/2009 | 1.05 | 6.83 | 19.51 | 1340 | 997 | -4.3 |

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Dissolved Oxygen (mg/L) | pH | Temperature °C | Electrical Conductivity µS/cm | Turbidity NTU | ORP |
|-----------------|------------------|-------------------------|-------------|----------------|-------------------------------|---------------|--------------|
| MW-7 cont. | 3/16/2010 | 0.83 | 5.88 | 18.37 | 1266 | 382 | -37.9 |
| | 6/3/2010 | 0.77 | 6.46 | 18.67 | 1199 | 873 | -30.4 |
| | 9/1/2010 | 0.98 | 6.4 | 19.83 | 1271 | 999 | -60 |
| | 12/2/2010 | 1.01 | 6.23 | 19.17 | 1253 | 999 | -85.6 |
| | 3/4/2011 | 3.66 | 6.68 | 18.33 | 1098 | 609 | -49.5 |
| | 5/19/2011 | 1.35 | 6.42 | 17.71 | 1192 | 879 | -53.7 |
| | 9/8/2011 | 2.01 | 6.07 | 18.91 | 1198 | 748 | -17.8 |
| | 3/2/2012 | 1.82 | 6.39 | 18.12 | 1308 | 363 | -69.3 |
| | 6/6/2012 | 2.78 | 6.57 | 17.41 | 1106 | 362 | 1.3 |
| | 9/20/2012 | 1.61 | 6.11 | 18.8 | 1303 | 1000 | 95.9 |
| | 12/13/2012 | 2.93 | 6.67 | 18.42 | 1274 | 524 | -22 |
| | 3/27/2013 | 3.01 | 6.51 | 17.1 | 1256 | 335 | 2.1 |
| | 6/10/2013 | 2.55 | 6.22 | 17.81 | 1232 | 672 | 8 |
| | 9/16/2013 | 3.59 | 6.21 | 19.19 | 1264 | 999 | 45.9 |
| | 12/5/2013 | 2.76 | 6.63 | 17.96 | 1212 | 999 | 6.5 |
| MPE-1 | | | | | | | |
| MPE-1 | 6/6/2012 | 1.73 | 6.83 | 19.34 | 1269 | 16.8 | -41.9 |
| | 9/20/2012 | 0.62 | 5.87 | 19.36 | 1389 | 16.2 | 20.2 |
| | 12/14/2012 | 0.7 | 6.76 | 19.14 | 1473 | 16.4 | -63.5 |
| | 3/27/2013 | 2.01 | 6.64 | 19.96 | 1499 | 7.03 | -214.9 |
| | 6/10/2013 | 0.59 | 6.62 | 20.05 | 1497 | 20 | -59.7 |
| | 9/17/2013 | 0.65 | 6.59 | 19.97 | 1467 | 16.2 | -66.7 |
| | 12/6/2013 | 0.78 | 6.63 | 19.41 | 1390 | 32 | -77.5 |
| MPE-2 | | | | | | | |
| MPE-2 | 3/2/2012 | 1.30 | 6.40 | 21.18 | 1303 | 8.70 | -164.9 |
| | 6/7/2012 | 0.48 | 6.62 | 20.32 | 1309 | 3.63 | -20.4 |
| | 9/21/2012 | 0.46 | 6.29 | 20.27 | 1284 | 7.05 | 72.4 |
| | 12/14/2012 | 0.47 | 6.68 | 20.14 | 1223 | 7.29 | -60.5 |
| | 3/28/2013 | 0.84 | 6.51 | 20.93 | 1327 | 8.35 | -64.3 |
| | 6/11/2013 | 0.52 | 6.63 | 20.34 | 1192 | 29.70 | -56.8 |
| | 9/17/2013 | 0.61 | 6.69 | 21.15 | 1201 | 26.50 | -80.7 |
| | 12/5/2013 | FP | FP | FP | FP | FP | FP |
| 2nd WBZ | | | | | | | |
| MW-1D | 8/26/2009 | 0.45 | 7.04 | 19.93 | 1388 | 7.75 | -11 |
| | 12/1/2009 | 0.51 | 7.4 | 19.79 | 1342 | 19.1 | -21.7 |
| | 3/16/2010 | 0.57 | 6.45 | 19.99 | 1353 | 98.9 | -28.2 |
| | 6/4/2010 | 0.58 | 6.66 | 19.98 | 1336 | 3.85 | 97.7 |
| | 9/1/2010 | 0.52 | 6.94 | 20.12 | 1404 | 4.41 | -6.6 |
| | 12/3/2010 | 0.49 | 6.64 | 19.73 | 1328 | 7.12 | -75.3 |
| | 3/3/2011 | 2.77 | 7.35 | 19.79 | 1294 | 9.97 | 18.8 |
| | 5/19/2011 | 2.81 | 7.07 | 19.95 | 1330 | 5.26 | 6.6 |
| | 9/8/2011 | 3.21 | 6.66 | 20.03 | 1309 | 9.98 | -35.5 |
| | 3/2/2012 | 2.04 | 6.75 | 19.76 | 1306 | 22.0 | -71.3 |
| | 6/6/2012 | 1.1 | 7.29 | 19.54 | 1228 | 10.8 | 58.7 |
| | 9/20/2012 | 0.42 | 6.85 | 19.57 | 1256 | 18.6 | 93.7 |
| | 12/13/2012 | 1.03 | 7.29 | 18.82 | 1234 | 11.4 | 93.7 |
| | 3/27/2013 | 1.45 | 7.08 | 19.7 | 1253 | 5.8 | -1 |
| 6/10/2013 | 0.52 | 7.27 | 19.8 | 1238 | 16 | 111.5 | |
| 9/16/2013 | 0.78 | 7.09 | 19.88 | 1225 | 19 | 80.1 | |
| | 12/5/2013 | 0.87 | 7.29 | 18.47 | 1184 | 23.2 | 5.2 |
| MW-3D | | | | | | | |
| MW-3D | 8/26/2009 | 0.73 | 6.93 | 20.17 | 1276 | 1.73 | -18.8 |
| | 12/1/2009 | 0.98 | 7.3 | 20.04 | 1236 | 2.48 | -23.5 |
| | 3/16/2010 | 0.69 | 6.38 | 20.29 | 1272 | 8.05 | -27.8 |
| | 6/4/2010 | 0.77 | 6.54 | 20.2 | 1254 | 0.42 | 78.1 |
| | 9/1/2010 | 0.79 | 6.85 | 20.33 | 1304 | 0.25 | -29.4 |
| | 12/3/2010 | 0.81 | 6.49 | 20.04 | 1252 | 1.49 | -79.2 |

Table A
Historical Field Parameters
15101 Freedom Avenue, San Leandro, CA

| Monitoring Well | Date | Dissolved Oxygen (mg/L) | pH | Temperature °C | Electrical Conductivity µS/cm | Turbidity NTU | ORP | |
|------------------|------------------|-------------------------|-------------|----------------|-------------------------------|---------------|-------------|-------|
| MW-3D cont. | 3/3/2011 | 2 | 7.24 | 20.02 | 1254 | 0.85 | 54 | |
| | 5/19/2011 | 1.99 | 6.91 | 20.21 | 1260 | 2.03 | -14.8 | |
| | 9/8/2011 | 1.73 | 6.52 | 20.19 | 1247 | 3.53 | -32.6 | |
| | 3/2/2012 | 2.17 | 6.99 | 20.02 | 1269 | 9.02 | -84.2 | |
| | 6/6/2012 | 0.33 | 7.16 | 19.76 | 1225 | 4.78 | 67.5 | |
| | 9/20/2012 | 0.54 | 6.77 | 19.71 | 1233 | 4.70 | 88.0 | |
| | 12/13/2012 | 0.85 | 7.14 | 19.02 | 1229 | 5.27 | 104.1 | |
| | 3/27/2013 | 2.11 | 7.01 | 19.94 | 1241 | 5.31 | 66.3 | |
| | 6/10/2013 | 0.73 | 7.19 | 20.32 | 1238 | 12.6 | 100.2 | |
| | 9/16/2013 | 0.84 | 7.03 | 20 | 1236 | 16 | 72.9 | |
| | 12/5/2013 | 0.74 | 7.16 | 18.64 | 1193 | 11.9 | 28.3 | |
| | MW-4D | 8/27/2009 | 0.98 | 6.93 | 19.46 | 1280 | 4.31 | -26.4 |
| | | 12/1/2009 | 1.9 | 7.36 | 19.42 | 1249 | 4.66 | -24.2 |
| 3/16/2010 | | 1.4 | 6.36 | 19.58 | 1283 | 24.8 | -16.7 | |
| 6/4/2010 | | 1.3 | 6.53 | 19.49 | 1259 | 5.1 | 115.8 | |
| 9/1/2010 | | 1.44 | 6.92 | 19.67 | 1333 | 2.2 | -26.9 | |
| 12/3/2010 | | 1.3 | 6.5 | 19.4 | 1266 | 1.57 | -116.6 | |
| 3/3/2011 | | 2.11 | 7.36 | 19.42 | 1219 | 1.8 | -96.4 | |
| 5/19/2011 | | 2.12 | 6.95 | 19.56 | 1262 | 2.09 | -15.5 | |
| 9/8/2011 | | 2.03 | 6.57 | 19.62 | 1261 | 3.13 | -54 | |
| 3/2/2012 | | 2.15 | 6.92 | 19.39 | 1272 | 13.1 | -86.5 | |
| 6/6/2012 | | 0.32 | 7.27 | 19.25 | 1189 | 6.32 | 22.9 | |
| 9/20/2012 | | 0.39 | 6.76 | 19.21 | 1232 | 6.12 | 91.1 | |
| 12/13/2012 | | 0.89 | 7.2 | 18.46 | 1210 | 7.34 | -15.7 | |
| 3/27/2013 | | 2.01 | 7.02 | 19.39 | 1236 | 5.31 | 47.4 | |
| 6/10/2013 | | 0.75 | 7.14 | 19.54 | 1223 | 24.7 | 43.7 | |
| 9/16/2013 | | 0.77 | 7.13 | 19.44 | 1220 | 24.2 | 42.8 | |
| 12/6/2013 | | 1.34 | 7.17 | 18.05 | 1175 | 20 | 75 | |



EPA On-line Tools for Site Assessment Calculation

Hydraulic Gradient -- Magnitude and Direction

Gradient Calculation from fitting a plane to as many as thirty points

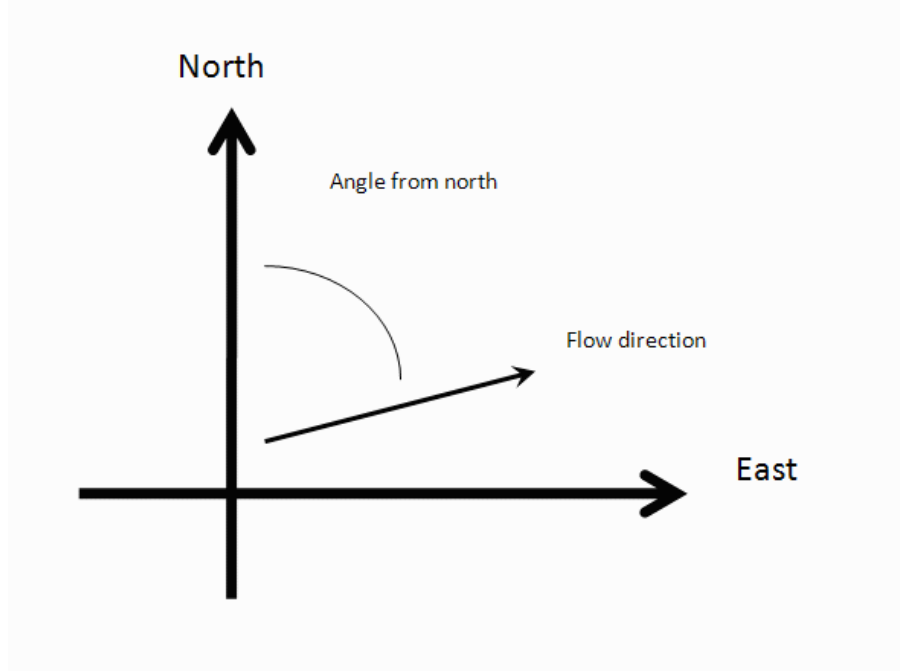
$$\begin{aligned}
 a x_1 + b y_1 + c &= h_1 \\
 a x_2 + b y_2 + c &= h_2 \\
 a x_3 + b y_3 + c &= h_3 \\
 &\dots \\
 a x_{30} + b y_{30} + c &= h_{30}
 \end{aligned}$$

where (x_i, y_i) are the coordinates of the well and h_i is the head

$i = 1, 2, 3, \dots, 30$

The coefficients a , b , and c are calculated by a least-squares fitting of the the data to a plane

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant



Inputs

Site Name

Date

Calculation basis

Coordinates

| I.D. | x-coordinate | y-coordinate | head | ft |
|-----------|--------------|--------------|-------|----|
| 1) MW-1 | 6092119.016 | 2084364.691 | 30.30 | |
| 2) MW-2 | 6092063.978 | 2084323.224 | 30.16 | |
| 3) MW-3 | 6092176.317 | 2084298.343 | 30.15 | |
| 4) MW-4 | 6092124.294 | 2084251.598 | 29.71 | |
| 5) MW-5 | 6092177.071 | 2084206.361 | 29.67 | |
| 6) MW-6 | 6092140.881 | 2084072.911 | 27.07 | |
| 7) MW-7 | 6092290.918 | 2084008.071 | 28.53 | |
| 8) EX-1 | 6092163.5 | 2084133.982 | 24.83 | |
| 9) EX-2 | 6092131.08 | 2084082.713 | 22.68 | |
| 10) MPE-1 | 6092125.048 | 2084212.393 | 29.55 | |
| 11) MPE-2 | 6092171.793 | 2084292.312 | 30.07 | |
| 12) | | | | |
| 13) | | | | |
| 14) | | | | |

| | | | | |
|-----|--|--|--|--|
| 15) | | | | |
| 16) | | | | |
| 17) | | | | |
| 18) | | | | |
| 19) | | | | |
| 20) | | | | |
| 21) | | | | |
| 22) | | | | |
| 23) | | | | |
| 24) | | | | |
| 25) | | | | |
| 26) | | | | |
| 27) | | | | |
| 28) | | | | |
| 29) | | | | |
| 30) | | | | |

Results

| | |
|--------------------------------------------------------|---------|
| Number of Points Used in Calculation | 11 |
| Max. Difference Between Head Values | 2.323 |
| Gradient Magnitude (i) | 0.03094 |
| Flow direction as degrees from North (positive y axis) | 226.9 |
| Coefficient of Determination (R^2) | 0.631 |

WCMS

Last updated on 1/10/2013



EPA On-line Tools for Site Assessment Calculation

[Module Home](#) [Objectives](#) [Table of Contents](#) [Previous <](#) [Next >](#)

Hydraulic Gradient

Gradient Calculation from fitting a plane to three points

$$a x_1 + b y_1 + c = h_1$$

$$a x_2 + b y_2 + c = h_2$$

$$a x_3 + b y_3 + c = h_3$$

where (x_i, y_i) are the coordinates of the well and

h_i is the head

$i = 1, 2, 3$

The gradient is calculated from the square root of $(a^2 + b^2)$ and the angle from the arctangent of a/b or b/a depending on the quadrant

Example Data Set 1

Site Name 15101 Freedom Ave, S...

Date 12/5/2013

Calculation basis

Coordinates

| x-coordinate | y-coordinate | head <input type="text" value="ft"/> |
|--------------|--------------|--------------------------------------|
| 6092128.064 | 2084372.231 | 30.11 |
| 6092183.856 | 2084303.621 | 30.13 |
| 6092116.755 | 2084222.948 | 29.69 |

Gradient Magnitude (i) 0.004324

Degrees from North (+ y axis) 233.9

[Previous](#) [Top](#) [Next](#)

[Home](#) | [Glossary](#) | [Notation](#) | [Links](#) | [References](#) | [Calculators](#)

Appendix C

Laboratory Reports and Chain of Custody Forms
for the Fourth Quarter 2013 Monitoring Event



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

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

Laboratory Job Number 251404
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2551
Location : 15101 Freedom Avenue San Leandro
Level : II

Table with 2 columns: Sample ID and Lab ID. Rows include MW-1 through MW-7, MW-1D through MW-4D, EX-1 through EX-2, and MPE-1.

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: [Handwritten Signature]
Tracy Babjar
Project Manager
tracy.babjar@ctberk.com
(510) 204-2226

Date: 12/17/2013

CASE NARRATIVE

Laboratory number: 251404
Client: SOMA Environmental Engineering Inc.
Project: 2551
Location: 15101 Freedom Avenue San Leandro
Request Date: 12/06/13
Samples Received: 12/06/13

This data package contains sample and QC results for thirteen water samples, requested for the above referenced project on 12/06/13. The samples were received cold and intact.

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

Low response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 12/13/13 15:07; this analyte met minimum response criteria, and affected data was qualified with "b". Low recoveries were observed for ethylbenzene in the MS/MSD of MW-3 (lab # 251404-003); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

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

Project No: 2551

Project Name: 15101 Freedom Ave., San Leandro
 Turnaround Time: Standard

Sampler: Lizzie Hightower (Passa Matrazim)
 Report To: Joyce Bobek
 Company: SOMA Environmental
 Telephone: 925-734-6400
 Fax: 925-734-6401

C&T LOGIN # 251404

CHAIN OF CUSTODY

Analyses

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | # of Containers | HCL | H ₂ SO ₄ | HNO ₃ | ICE | TPHg, BTEX, MIBE 8260B Gasoline Oxygenates & Lead Scavengers |
|---------|------------|-----------------------|--------|-------------|-----------------|-----|--------------------------------|------------------|-----|-----------------------------------------------------------------|
| | | | Soil | Water Waste | | | | | | |
| 1 | MW-1 | 12/6/13 11:02 | * | * | * | * | * | * | * | * |
| 2 | MW-2 | 12/6/13 10:35 | * | * | * | * | * | * | * | * |
| 3 | MW-3 | 12/6/13 11:25 | * | * | * | * | * | * | * | * |
| 4 | MW-4 | 12/6/13 10:08 | * | * | * | * | * | * | * | * |
| 5 | MW-5 | 12/6/13 11:49 | * | * | * | * | * | * | * | * |
| 6 | MW-6 | 12/5/13 14:05 | * | * | * | * | * | * | * | * |
| 7 | MW-7 | 12/5/13 13:36 | * | * | * | * | * | * | * | * |
| 8 | MW-1D | 12/5/13 15:14 | * | * | * | * | * | * | * | * |
| 9 | MW-3D | 12/5/13 15:45 | * | * | * | * | * | * | * | * |
| 10 | MW-4D | 12/6/13 09:42 | * | * | * | * | * | * | * | * |
| 11 | EX-1 | 12/5/13 14:25 | * | * | * | * | * | * | * | * |
| 12 | EX-2 | 12/5/13 14:35 | * | * | * | * | * | * | * | * |
| 13 | MPE-1 | 12/6/13 12:17 | * | * | * | * | * | * | * | * |
| | MPE-2 | | * | * | * | * | * | * | * | * |

Notes: EDF OUTPUT REQUIRED

Ethanol

RELINQUISHED BY: *E. Hightower*

DATE/TIME: 12/6/13
 DATE/TIME: 12/6/13
 DATE/TIME: 12/6/13

RECEIVED BY: *Pat Tompkins*

DATE/TIME: 12/6/13
 DATE/TIME: 12/6/13
 DATE/TIME: 12/6/13

CHAIN OF CUSTODY

Analyses

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

Project No: 2553

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave, San Leandro Company : SOMA Environmental

Turnaround Time: Standard
 Telephone: 925-734-6400

Fax: 925-734-6401

| | | | | | | | | | |
|---------|------------|---------------|--------|-----------------|-----|--------------------------------|------------------|-----|--------------|
| Lab No. | Sample ID. | Sampling Date | Matrix | # of Containers | HCL | H ₂ SO ₄ | HNO ₃ | ICE | Preservative |
| | | | Soil | | | | | | |
| | | | Water | | | | | | |
| | | | Waste | | | | | | |

| | | | | | | | |
|----|----------|---------------|---|--------|---|-----------------|---|
| 14 | Effluent | 12/6/13 12:40 | * | 6 VOAS | * | 2-500 mL Ambers | * |
|----|----------|---------------|---|--------|---|-----------------|---|

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY: *Z. A. Jones*

DATE/TIME: 12/6/13

RECEIVED BY: *Pat Stanley*

DATE/TIME: 12/6/13 13:25

| | |
|-----------|-----------|
| DATE/TIME | DATE/TIME |
| DATE/TIME | DATE/TIME |
| DATE/TIME | DATE/TIME |

LOGIN # 251404

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 251404 Date Received 12/6/13 Number of coolers 1
Client SOMA Project 15101 FREEDOM AVE., SAN LEANDRO (2551)

Date Opened 12/6/13 By (print) KR (sign) Tina Rankin
Date Logged in [initials] By (print) [initials] (sign) [initials]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, 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. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO

If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-1 | Batch#: 206139 |
| Lab ID: 251404-001 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/15/13 |
| Diln Fac: 3.333 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | 5,300 | 170 |
| tert-Butyl Alcohol (TBA) | ND | 33 |
| Isopropyl Ether (DIPE) | ND | 1.7 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1.7 |
| Methyl tert-Amyl Ether (TAME) | ND | 1.7 |
| Ethanol | ND | 3,300 |
| MTBE | ND | 1.7 |
| 1,2-Dichloroethane | ND | 1.7 |
| Benzene | 71 | 1.7 |
| Toluene | ND | 1.7 |
| 1,2-Dibromoethane | ND | 1.7 |
| Ethylbenzene | 240 | 1.7 |
| m,p-Xylenes | 84 | 1.7 |
| o-Xylene | ND | 1.7 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-2 | Batch#: 206172 |
| Lab ID: 251404-002 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/16/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | 290 | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | 1.4 | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | 1.1 | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 106 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 102 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-3 | Batch#: 206172 |
| Lab ID: 251404-003 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/16/13 |
| Diln Fac: 20.00 | |

| Analyte | Result | RL |
|-------------------------------|--------|--------|
| Gasoline C7-C12 | 23,000 | 1,000 |
| tert-Butyl Alcohol (TBA) | ND | 200 |
| Isopropyl Ether (DIPE) | ND | 10 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 10 |
| Methyl tert-Amyl Ether (TAME) | ND | 10 |
| Ethanol | ND | 20,000 |
| MTBE | ND | 10 |
| 1,2-Dichloroethane | ND | 10 |
| Benzene | 360 | 10 |
| Toluene | 26 | 10 |
| 1,2-Dibromoethane | ND | 10 |
| Ethylbenzene | 1,700 | 10 |
| m,p-Xylenes | 3,200 | 10 |
| o-Xylene | 130 | 10 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 98 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-4 | Units: ug/L |
| Lab ID: 251404-004 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed |
|-------------------------------|--------|--------|----------|--------|----------|
| Gasoline C7-C12 | 2,300 | 1,000 | 20.00 | 206119 | 12/13/13 |
| tert-Butyl Alcohol (TBA) | 1,500 | 400 | 40.00 | 206139 | 12/15/13 |
| Isopropyl Ether (DIPE) | ND | 10 | 20.00 | 206119 | 12/13/13 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 10 | 20.00 | 206119 | 12/13/13 |
| Methyl tert-Amyl Ether (TAME) | ND | 10 | 20.00 | 206119 | 12/13/13 |
| Ethanol | ND | 20,000 | 20.00 | 206119 | 12/13/13 |
| MTBE | 42 | 10 | 20.00 | 206119 | 12/13/13 |
| 1,2-Dichloroethane | ND | 10 | 20.00 | 206119 | 12/13/13 |
| Benzene | 3,300 | 20 | 40.00 | 206139 | 12/15/13 |
| Toluene | ND | 10 | 20.00 | 206119 | 12/13/13 |
| 1,2-Dibromoethane | ND | 10 | 20.00 | 206119 | 12/13/13 |
| Ethylbenzene | 78 | 10 | 20.00 | 206119 | 12/13/13 |
| m,p-Xylenes | 150 | 10 | 20.00 | 206119 | 12/13/13 |
| o-Xylene | 49 | 10 | 20.00 | 206119 | 12/13/13 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|-----------------------|------|--------|----------|--------|----------|
| Dibromofluoromethane | 85 | 77-136 | 20.00 | 206119 | 12/13/13 |
| 1,2-Dichloroethane-d4 | 76 | 75-139 | 20.00 | 206119 | 12/13/13 |
| Toluene-d8 | 93 | 80-120 | 20.00 | 206119 | 12/13/13 |
| Bromofluorobenzene | 80 | 80-120 | 20.00 | 206119 | 12/13/13 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-5 | Diln Fac: 2.000 |
| Lab ID: 251404-005 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | |

| Analyte | Result | RL | Batch# | Analyzed |
|-------------------------------|--------|-------|--------|----------|
| Gasoline C7-C12 | 3,600 | 100 | 206172 | 12/16/13 |
| tert-Butyl Alcohol (TBA) | ND | 20 | 206172 | 12/16/13 |
| Isopropyl Ether (DIPE) | ND | 1.0 | 206172 | 12/16/13 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 | 206172 | 12/16/13 |
| Methyl tert-Amyl Ether (TAME) | 3.9 | 1.0 | 206172 | 12/16/13 |
| Ethanol | ND | 2,000 | 206172 | 12/16/13 |
| MTBE | 2.5 | 1.0 | 206172 | 12/16/13 |
| 1,2-Dichloroethane | ND | 1.0 | 206172 | 12/16/13 |
| Benzene | 35 | 1.0 | 206172 | 12/16/13 |
| Toluene | 2.1 | 1.0 | 206172 | 12/16/13 |
| 1,2-Dibromoethane | ND | 1.0 | 206172 | 12/16/13 |
| Ethylbenzene | 160 | 1.0 | 206119 | 12/13/13 |
| m,p-Xylenes | 200 | 1.0 | 206172 | 12/16/13 |
| o-Xylene | 41 | 1.0 | 206172 | 12/16/13 |

| Surrogate | %REC | Limits | Batch# | Analyzed |
|-----------------------|------|--------|--------|----------|
| Dibromofluoromethane | 104 | 77-136 | 206172 | 12/16/13 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 | 206172 | 12/16/13 |
| Toluene-d8 | 99 | 80-120 | 206172 | 12/16/13 |
| Bromofluorobenzene | 99 | 80-120 | 206172 | 12/16/13 |

ND= Not Detected
 RL= Reporting Limit

| Purgeable Organics by GC/MS | | | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|--|--|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro | | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B | | |
| Project#: | 2551 | Analysis: | EPA 8260B | | |
| Field ID: | MW-6 | Units: | ug/L | | |
| Lab ID: | 251404-006 | Sampled: | 12/05/13 | | |
| Matrix: | Water | Received: | 12/06/13 | | |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed |
|-------------------------------|--------|-------|----------|--------|----------|
| Gasoline C7-C12 | 18,000 | 500 | 10.00 | 206172 | 12/16/13 |
| tert-Butyl Alcohol (TBA) | 270 | 50 | 5.000 | 206139 | 12/15/13 |
| Isopropyl Ether (DIPE) | ND | 2.5 | 5.000 | 206139 | 12/15/13 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 2.5 | 5.000 | 206139 | 12/15/13 |
| Methyl tert-Amyl Ether (TAME) | ND | 2.5 | 5.000 | 206139 | 12/15/13 |
| Ethanol | ND | 5,000 | 5.000 | 206139 | 12/15/13 |
| MTBE | 6.1 | 2.5 | 5.000 | 206139 | 12/15/13 |
| 1,2-Dichloroethane | ND | 2.5 | 5.000 | 206139 | 12/15/13 |
| Benzene | 220 | 2.5 | 5.000 | 206139 | 12/15/13 |
| Toluene | 330 | 2.5 | 5.000 | 206139 | 12/15/13 |
| 1,2-Dibromoethane | ND | 2.5 | 5.000 | 206139 | 12/15/13 |
| Ethylbenzene | 460 | 5.0 | 10.00 | 206172 | 12/16/13 |
| m,p-Xylenes | 1,500 | 5.0 | 10.00 | 206172 | 12/16/13 |
| o-Xylene | 530 | 5.0 | 10.00 | 206172 | 12/16/13 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|-----------------------|------|--------|----------|--------|----------|
| Dibromofluoromethane | 101 | 77-136 | 5.000 | 206139 | 12/15/13 |
| 1,2-Dichloroethane-d4 | 106 | 75-139 | 5.000 | 206139 | 12/15/13 |
| Toluene-d8 | 100 | 80-120 | 5.000 | 206139 | 12/15/13 |
| Bromofluorobenzene | 92 | 80-120 | 5.000 | 206139 | 12/15/13 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-7 | Batch#: 206172 |
| Lab ID: 251404-007 | Sampled: 12/05/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/16/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | 1,800 | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | 0.73 | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 5.7 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | 8.0 | 0.50 |
| m,p-Xylenes | 3.1 | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 95 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-1D | Batch#: 206172 |
| Lab ID: 251404-008 | Sampled: 12/05/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/16/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | 1.3 | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 96 | 80-120 |
| Bromofluorobenzene | 102 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-3D | Batch#: 206172 |
| Lab ID: 251404-009 | Sampled: 12/05/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/16/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 1.6 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | 0.53 | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 77-136 |
| 1,2-Dichloroethane-d4 | 105 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: MW-4D | Batch#: 206139 |
| Lab ID: 251404-010 | Sampled: 12/06/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/14/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 3.4 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 103 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | |
|---------------------------------------------|--------------------------------------------|
| Lab #: 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2551 | Analysis: EPA 8260B |
| Field ID: EX-1 | Batch#: 206101 |
| Lab ID: 251404-011 | Sampled: 12/05/13 |
| Matrix: Water | Received: 12/06/13 |
| Units: ug/L | Analyzed: 12/13/13 |
| Diln Fac: 1.000 | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | 390 | 50 |
| tert-Butyl Alcohol (TBA) | 230 | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | 1.7 | 0.50 |
| Methyl tert-Amyl Ether (TAME) | 5.5 | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | 76 | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | 42 | 0.50 |
| Toluene | 2.5 | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | 9.8 | 0.50 |
| m,p-Xylenes | 28 | 0.50 |
| o-Xylene | 4.6 | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 111 | 75-139 |
| Toluene-d8 | 103 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | | | |
|-----------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | EX-2 | Units: | ug/L |
| Lab ID: | 251404-012 | Sampled: | 12/05/13 |
| Matrix: | Water | Received: | 12/06/13 |

| Analyte | Result | RL | Diln Fac | Batch# | Analyzed |
|-------------------------------|--------|-------|----------|--------|----------|
| Gasoline C7-C12 | 3,700 | 100 | 2.000 | 206139 | 12/14/13 |
| tert-Butyl Alcohol (TBA) | 30 | 20 | 2.000 | 206139 | 12/14/13 |
| Isopropyl Ether (DIPE) | ND | 1.0 | 2.000 | 206139 | 12/14/13 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 1.0 | 2.000 | 206139 | 12/14/13 |
| Methyl tert-Amyl Ether (TAME) | ND | 1.0 | 2.000 | 206139 | 12/14/13 |
| Ethanol | ND | 2,000 | 2.000 | 206139 | 12/14/13 |
| MTBE | 7.2 | 1.0 | 2.000 | 206139 | 12/14/13 |
| 1,2-Dichloroethane | 1.2 | 1.0 | 2.000 | 206139 | 12/14/13 |
| Benzene | 160 | 1.0 | 2.000 | 206139 | 12/14/13 |
| Toluene | 46 | 1.0 | 2.000 | 206139 | 12/14/13 |
| 1,2-Dibromoethane | ND | 1.0 | 2.000 | 206139 | 12/14/13 |
| Ethylbenzene | 110 | 2.0 | 4.000 | 206172 | 12/16/13 |
| m,p-Xylenes | 320 | 2.0 | 4.000 | 206172 | 12/16/13 |
| o-Xylene | 74 | 1.0 | 2.000 | 206139 | 12/14/13 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|-----------------------|------|--------|----------|--------|----------|
| Dibromofluoromethane | 101 | 77-136 | 2.000 | 206139 | 12/14/13 |
| 1,2-Dichloroethane-d4 | 106 | 75-139 | 2.000 | 206139 | 12/14/13 |
| Toluene-d8 | 103 | 80-120 | 2.000 | 206139 | 12/14/13 |
| Bromofluorobenzene | 94 | 80-120 | 2.000 | 206139 | 12/14/13 |

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

| | | | |
|-----------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MPE-1 | Batch#: | 206101 |
| Lab ID: | 251404-013 | Sampled: | 12/06/13 |
| Matrix: | Water | Received: | 12/06/13 |
| Units: | ug/L | Analyzed: | 12/13/13 |
| Diln Fac: | 40.00 | | |

| Analyte | Result | RL |
|-------------------------------|--------|--------|
| Gasoline C7-C12 | 27,000 | 2,000 |
| tert-Butyl Alcohol (TBA) | 1,500 | 400 |
| Isopropyl Ether (DIPE) | ND | 20 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 20 |
| Methyl tert-Amyl Ether (TAME) | 30 | 20 |
| Ethanol | ND | 40,000 |
| MTBE | 110 | 20 |
| 1,2-Dichloroethane | ND | 20 |
| Benzene | 1,600 | 20 |
| Toluene | 220 | 20 |
| 1,2-Dibromoethane | ND | 20 |
| Ethylbenzene | 990 | 20 |
| m,p-Xylenes | 3,700 | 20 |
| o-Xylene | 1,300 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 77-136 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 |
| Toluene-d8 | 102 | 80-120 |
| Bromofluorobenzene | 96 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206101 |
| Units: | ug/L | Analyzed: | 12/13/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720275

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 125.0 | 130.0 | 104 | 37-151 |
| Isopropyl Ether (DIPE) | 25.00 | 27.32 | 109 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 26.48 | 106 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 25.53 | 102 | 65-120 |
| MTBE | 25.00 | 25.80 | 103 | 64-121 |
| 1,2-Dichloroethane | 25.00 | 26.76 | 107 | 77-137 |
| Benzene | 25.00 | 26.48 | 106 | 80-124 |
| Toluene | 25.00 | 25.14 | 101 | 80-122 |
| 1,2-Dibromoethane | 25.00 | 25.08 | 100 | 80-120 |
| Ethylbenzene | 25.00 | 26.23 | 105 | 80-124 |
| m,p-Xylenes | 50.00 | 56.25 | 113 | 80-122 |
| o-Xylene | 25.00 | 27.56 | 110 | 77-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 106 | 77-136 |
| 1,2-Dichloroethane-d4 | 108 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

Type: BSD Lab ID: QC720276

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 125.0 | 110.0 | 88 | 37-151 | 17 | 30 |
| Isopropyl Ether (DIPE) | 25.00 | 24.32 | 97 | 56-124 | 12 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 25.00 | 23.94 | 96 | 61-122 | 10 | 22 |
| Methyl tert-Amyl Ether (TAME) | 25.00 | 23.91 | 96 | 65-120 | 7 | 22 |
| MTBE | 25.00 | 23.34 | 93 | 64-121 | 10 | 20 |
| 1,2-Dichloroethane | 25.00 | 25.20 | 101 | 77-137 | 6 | 20 |
| Benzene | 25.00 | 25.28 | 101 | 80-124 | 5 | 20 |
| Toluene | 25.00 | 24.32 | 97 | 80-122 | 3 | 20 |
| 1,2-Dibromoethane | 25.00 | 24.74 | 99 | 80-120 | 1 | 20 |
| Ethylbenzene | 25.00 | 26.11 | 104 | 80-124 | 0 | 20 |
| m,p-Xylenes | 50.00 | 53.94 | 108 | 80-122 | 4 | 20 |
| o-Xylene | 25.00 | 26.25 | 105 | 77-120 | 5 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 105 | 77-136 |
| 1,2-Dichloroethane-d4 | 105 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206101 |
| Units: | ug/L | Analyzed: | 12/13/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720277

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,073 | 107 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 103 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

Type: BSD Lab ID: QC720278

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 1,000 | 1,023 | 102 | 80-120 | 5 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 99 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | |
|------------------------------------|-------------------------------------|--------------------------------------------|
| Lab #: | 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: | 2551 | Analysis: EPA 8260B |
| Type: | BLANK | Diln Fac: 1.000 |
| Lab ID: | QC720279 | Batch#: 206101 |
| Matrix: | Water | Analyzed: 12/13/13 |
| Units: | ug/L | |

| Analyte | Result | RL |
|-------------------------------|---------------|-----------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|-------------|---------------|
| Dibromofluoromethane | 103 | 77-136 |
| 1,2-Dichloroethane-d4 | 105 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 103 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Purgeable Organics by GC/MS | | |
|------------------------------------|-------------------------------------|--------------------------------------------|
| Lab #: | 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: | 2551 | Analysis: EPA 8260B |
| Type: | LCS | Diln Fac: 1.000 |
| Lab ID: | QC720357 | Batch#: 206119 |
| Matrix: | Water | Analyzed: 12/13/13 |
| Units: | ug/L | |

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|---------------|---------------|-------------|---------------|
| tert-Butyl Alcohol (TBA) | 93.75 | 54.78 b | 58 | 37-151 |
| Isopropyl Ether (DIPE) | 18.75 | 13.41 | 72 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 18.75 | 13.98 | 75 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 18.75 | 15.43 | 82 | 65-120 |
| MTBE | 18.75 | 14.58 | 78 | 64-121 |
| 1,2-Dichloroethane | 18.75 | 15.31 | 82 | 77-137 |
| Benzene | 18.75 | 18.07 | 96 | 80-124 |
| Toluene | 18.75 | 18.95 | 101 | 80-122 |
| 1,2-Dibromoethane | 18.75 | 18.49 | 99 | 80-120 |
| Ethylbenzene | 18.75 | 20.03 | 107 | 80-124 |
| m,p-Xylenes | 37.50 | 42.68 | 114 | 80-122 |
| o-Xylene | 18.75 | 20.72 | 110 | 77-120 |

| Surrogate | %REC | Limits |
|-----------------------|-------------|---------------|
| Dibromofluoromethane | 88 | 77-136 |
| 1,2-Dichloroethane-d4 | 79 | 75-139 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 82 | 80-120 |

b= See narrative

Batch QC Report

| Purgeable Organics by GC/MS | | |
|-----------------------------|-------------------------------------|--------------------------------------------|
| Lab #: | 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: | 2551 | Analysis: EPA 8260B |
| Type: | BLANK | Diln Fac: 1.000 |
| Lab ID: | QC720358 | Batch#: 206119 |
| Matrix: | Water | Analyzed: 12/13/13 |
| Units: | ug/L | |

| Analyte | Result | RL |
|-------------------------------|--------|-------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 87 | 77-136 |
| 1,2-Dichloroethane-d4 | 81 | 75-139 |
| Toluene-d8 | 94 | 80-120 |
| Bromofluorobenzene | 84 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206119 |
| Units: | ug/L | Analyzed: | 12/13/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720359

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,015 | 101 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 77-136 |
| 1,2-Dichloroethane-d4 | 80 | 75-139 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 83 | 80-120 |

Type: BSD Lab ID: QC720360

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 1,000 | 1,024 | 102 | 80-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 88 | 77-136 |
| 1,2-Dichloroethane-d4 | 80 | 75-139 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 83 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Field ID: | MW-3 | Batch#: | 206119 |
| MSS Lab ID: | 251404-003 | Sampled: | 12/06/13 |
| Matrix: | Water | Received: | 12/06/13 |
| Units: | ug/L | Analyzed: | 12/14/13 |
| Diln Fac: | 20.00 | | |

Type: MS Lab ID: QC720361

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-------------------------------|------------|--------|---------|------|--------|
| tert-Butyl Alcohol (TBA) | <44.77 | 2,500 | 2,083 b | 83 | 38-150 |
| Isopropyl Ether (DIPE) | <2.000 | 500.0 | 335.2 | 67 | 62-120 |
| Ethyl tert-Butyl Ether (ETBE) | <2.000 | 500.0 | 371.3 | 74 | 64-120 |
| Methyl tert-Amyl Ether (TAME) | <2.004 | 500.0 | 446.0 | 88 | 67-120 |
| MTBE | 3.216 | 500.0 | 420.5 | 83 | 66-120 |
| 1,2-Dichloroethane | <2.141 | 500.0 | 409.5 | 82 | 80-136 |
| Benzene | 303.5 | 500.0 | 745.1 | 88 | 80-127 |
| Toluene | 24.83 | 500.0 | 484.4 | 92 | 80-123 |
| 1,2-Dibromoethane | <2.683 | 500.0 | 513.2 | 103 | 80-120 |
| Ethylbenzene | 1,247 | 500.0 | 1,633 | 77 * | 80-126 |
| m,p-Xylenes | 2,313 | 1,000 | 3,135 | 82 | 80-123 |
| o-Xylene | 136.3 | 500.0 | 653.9 | 104 | 76-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 84 | 77-136 |
| 1,2-Dichloroethane-d4 | 81 | 75-139 |
| Toluene-d8 | 95 | 80-120 |
| Bromofluorobenzene | 81 | 80-120 |

Type: MSD Lab ID: QC720362

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|---------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 2,500 | 2,003 b | 80 | 38-150 | 4 | 38 |
| Isopropyl Ether (DIPE) | 500.0 | 332.7 | 67 | 62-120 | 1 | 25 |
| Ethyl tert-Butyl Ether (ETBE) | 500.0 | 376.6 | 75 | 64-120 | 1 | 27 |
| Methyl tert-Amyl Ether (TAME) | 500.0 | 442.6 | 87 | 67-120 | 1 | 28 |
| MTBE | 500.0 | 416.4 | 83 | 66-120 | 1 | 27 |
| 1,2-Dichloroethane | 500.0 | 420.2 | 84 | 80-136 | 3 | 23 |
| Benzene | 500.0 | 747.0 | 89 | 80-127 | 0 | 23 |
| Toluene | 500.0 | 501.9 | 95 | 80-123 | 4 | 22 |
| 1,2-Dibromoethane | 500.0 | 495.4 | 99 | 80-120 | 4 | 23 |
| Ethylbenzene | 500.0 | 1,640 | 79 * | 80-126 | 0 | 22 |
| m,p-Xylenes | 1,000 | 3,157 | 84 | 80-123 | 1 | 22 |
| o-Xylene | 500.0 | 656.9 | 104 | 76-120 | 0 | 23 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 85 | 77-136 |
| 1,2-Dichloroethane-d4 | 80 | 75-139 |
| Toluene-d8 | 93 | 80-120 |
| Bromofluorobenzene | 82 | 80-120 |

*= Value outside of QC limits; see narrative

b= See narrative

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | |
|------------------------------------|-------------------------------------|--------------------------------------------|
| Lab #: | 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: | 2551 | Analysis: EPA 8260B |
| Type: | BLANK | Diln Fac: 1.000 |
| Lab ID: | QC720454 | Batch#: 206139 |
| Matrix: | Water | Analyzed: 12/14/13 |
| Units: | ug/L | |

| Analyte | Result | RL |
|-------------------------------|---------------|-----------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|-------------|---------------|
| Dibromofluoromethane | 106 | 77-136 |
| 1,2-Dichloroethane-d4 | 107 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 103 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206139 |
| Units: | ug/L | Analyzed: | 12/14/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720455

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 100.0 | 96.67 | 97 | 37-151 |
| Isopropyl Ether (DIPE) | 20.00 | 19.00 | 95 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 18.82 | 94 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 18.52 | 93 | 65-120 |
| MTBE | 20.00 | 17.89 | 89 | 64-121 |
| 1,2-Dichloroethane | 20.00 | 20.07 | 100 | 77-137 |
| Benzene | 20.00 | 19.86 | 99 | 80-124 |
| Toluene | 20.00 | 19.81 | 99 | 80-122 |
| 1,2-Dibromoethane | 20.00 | 19.56 | 98 | 80-120 |
| Ethylbenzene | 20.00 | 20.12 | 101 | 80-124 |
| m,p-Xylenes | 40.00 | 42.02 | 105 | 80-122 |
| o-Xylene | 20.00 | 20.55 | 103 | 77-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

Type: BSD Lab ID: QC720456

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 100.0 | 96.43 | 96 | 37-151 | 0 | 30 |
| Isopropyl Ether (DIPE) | 20.00 | 18.46 | 92 | 56-124 | 3 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 17.96 | 90 | 61-122 | 5 | 22 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 18.61 | 93 | 65-120 | 0 | 22 |
| MTBE | 20.00 | 18.41 | 92 | 64-121 | 3 | 20 |
| 1,2-Dichloroethane | 20.00 | 19.72 | 99 | 77-137 | 2 | 20 |
| Benzene | 20.00 | 18.90 | 94 | 80-124 | 5 | 20 |
| Toluene | 20.00 | 18.71 | 94 | 80-122 | 6 | 20 |
| 1,2-Dibromoethane | 20.00 | 19.79 | 99 | 80-120 | 1 | 20 |
| Ethylbenzene | 20.00 | 19.47 | 97 | 80-124 | 3 | 20 |
| m,p-Xylenes | 40.00 | 40.92 | 102 | 80-122 | 3 | 20 |
| o-Xylene | 20.00 | 19.74 | 99 | 77-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206139 |
| Units: | ug/L | Analyzed: | 12/14/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720457

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 800.0 | 810.4 | 101 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 104 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 101 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

Type: BSD Lab ID: QC720458

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 800.0 | 775.4 | 97 | 80-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 103 | 77-136 |
| 1,2-Dichloroethane-d4 | 105 | 75-139 |
| Toluene-d8 | 100 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | |
|------------------------------------|-------------------------------------|--------------------------------------------|
| Lab #: | 251404 | Location: 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: | 2551 | Analysis: EPA 8260B |
| Type: | BLANK | Diln Fac: 1.000 |
| Lab ID: | QC720586 | Batch#: 206172 |
| Matrix: | Water | Analyzed: 12/16/13 |
| Units: | ug/L | |

| Analyte | Result | RL |
|-------------------------------|---------------|-----------|
| Gasoline C7-C12 | ND | 50 |
| tert-Butyl Alcohol (TBA) | ND | 10 |
| Isopropyl Ether (DIPE) | ND | 0.50 |
| Ethyl tert-Butyl Ether (ETBE) | ND | 0.50 |
| Methyl tert-Amyl Ether (TAME) | ND | 0.50 |
| Ethanol | ND | 1,000 |
| MTBE | ND | 0.50 |
| 1,2-Dichloroethane | ND | 0.50 |
| Benzene | ND | 0.50 |
| Toluene | ND | 0.50 |
| 1,2-Dibromoethane | ND | 0.50 |
| Ethylbenzene | ND | 0.50 |
| m,p-Xylenes | ND | 0.50 |
| o-Xylene | ND | 0.50 |

| Surrogate | %REC | Limits |
|-----------------------|-------------|---------------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 104 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 105 | 80-120 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206172 |
| Units: | ug/L | Analyzed: | 12/16/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720587

| Analyte | Spiked | Result | %REC | Limits |
|-------------------------------|--------|--------|------|--------|
| tert-Butyl Alcohol (TBA) | 100.0 | 105.1 | 105 | 37-151 |
| Isopropyl Ether (DIPE) | 20.00 | 20.93 | 105 | 56-124 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 20.17 | 101 | 61-122 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 20.16 | 101 | 65-120 |
| MTBE | 20.00 | 20.47 | 102 | 64-121 |
| 1,2-Dichloroethane | 20.00 | 20.79 | 104 | 77-137 |
| Benzene | 20.00 | 20.96 | 105 | 80-124 |
| Toluene | 20.00 | 20.78 | 104 | 80-122 |
| 1,2-Dibromoethane | 20.00 | 20.97 | 105 | 80-120 |
| Ethylbenzene | 20.00 | 21.81 | 109 | 80-124 |
| m,p-Xylenes | 40.00 | 45.30 | 113 | 80-122 |
| o-Xylene | 20.00 | 21.74 | 109 | 77-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 102 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 102 | 80-120 |

Type: BSD Lab ID: QC720588

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-------------------------------|--------|--------|------|--------|-----|-----|
| tert-Butyl Alcohol (TBA) | 100.0 | 105.2 | 105 | 37-151 | 0 | 30 |
| Isopropyl Ether (DIPE) | 20.00 | 19.93 | 100 | 56-124 | 5 | 20 |
| Ethyl tert-Butyl Ether (ETBE) | 20.00 | 19.90 | 100 | 61-122 | 1 | 22 |
| Methyl tert-Amyl Ether (TAME) | 20.00 | 19.76 | 99 | 65-120 | 2 | 22 |
| MTBE | 20.00 | 19.92 | 100 | 64-121 | 3 | 20 |
| 1,2-Dichloroethane | 20.00 | 20.37 | 102 | 77-137 | 2 | 20 |
| Benzene | 20.00 | 19.80 | 99 | 80-124 | 6 | 20 |
| Toluene | 20.00 | 19.71 | 99 | 80-122 | 5 | 20 |
| 1,2-Dibromoethane | 20.00 | 20.67 | 103 | 80-120 | 1 | 20 |
| Ethylbenzene | 20.00 | 20.42 | 102 | 80-124 | 7 | 20 |
| m,p-Xylenes | 40.00 | 43.16 | 108 | 80-122 | 5 | 20 |
| o-Xylene | 20.00 | 20.99 | 105 | 77-120 | 4 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 101 | 75-139 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 99 | 80-120 |

RPD= Relative Percent Difference

Batch QC Report

| Purgeable Organics by GC/MS | | | |
|-----------------------------|-------------------------------------|-----------|----------------------------------|
| Lab #: | 251404 | Location: | 15101 Freedom Avenue San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2551 | Analysis: | EPA 8260B |
| Matrix: | Water | Batch#: | 206172 |
| Units: | ug/L | Analyzed: | 12/16/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC720589

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 900.0 | 908.3 | 101 | 80-120 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 101 | 77-136 |
| 1,2-Dichloroethane-d4 | 98 | 75-139 |
| Toluene-d8 | 98 | 80-120 |
| Bromofluorobenzene | 101 | 80-120 |

Type: BSD Lab ID: QC720590

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 900.0 | 866.9 | 96 | 80-120 | 5 | 20 |

| Surrogate | %REC | Limits |
|-----------------------|------|--------|
| Dibromofluoromethane | 102 | 77-136 |
| 1,2-Dichloroethane-d4 | 101 | 75-139 |
| Toluene-d8 | 97 | 80-120 |
| Bromofluorobenzene | 100 | 80-120 |

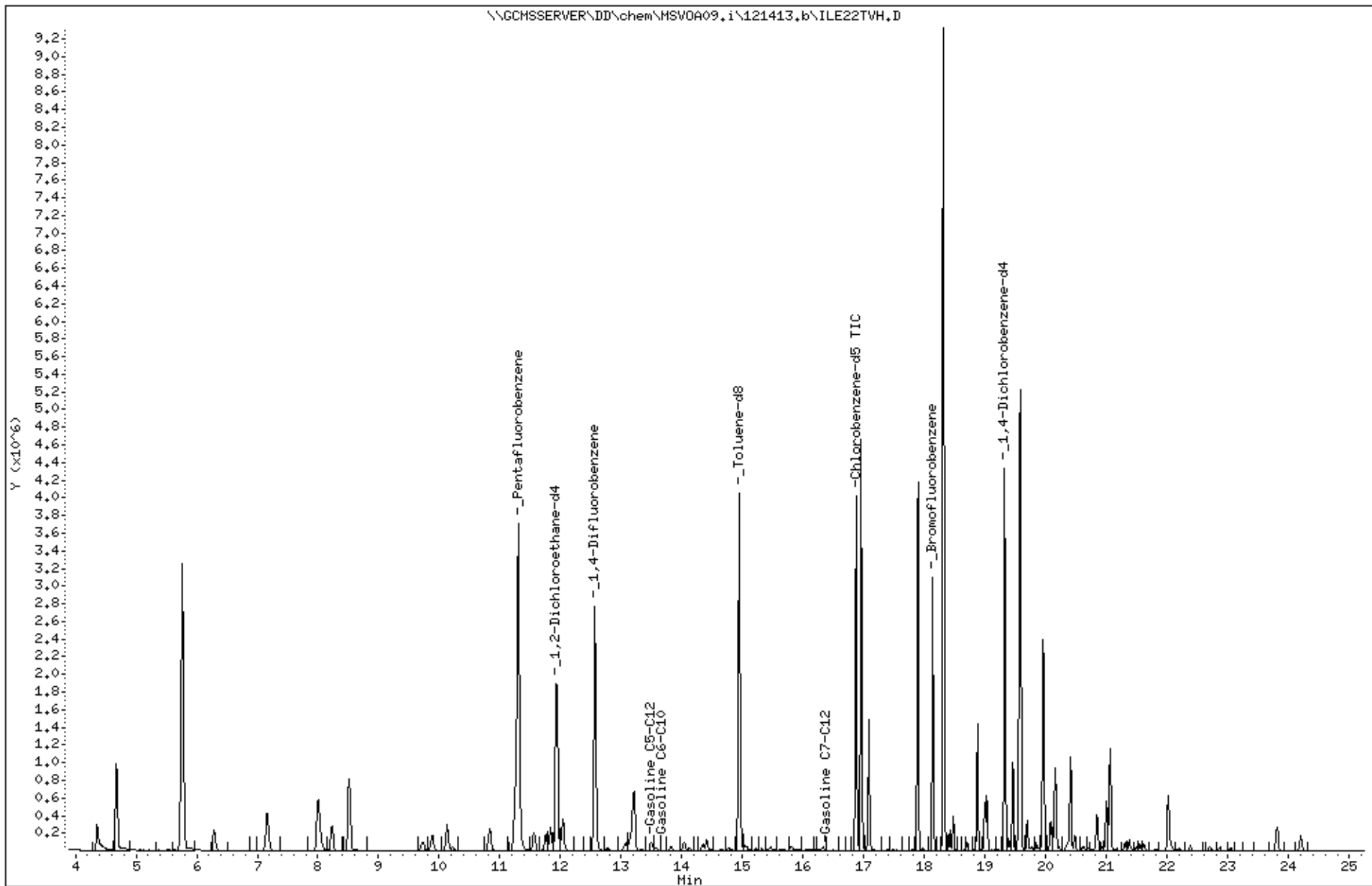
RPD= Relative Percent Difference

Date : 15-DEC-2013 00:09
Client ID: DYNA P&T
Sample Info: S,251404-001

Instrument: MSV0A09.i

Operator: VOC
Column diameter: 2.00

Column phase:



Date : 16-DEC-2013 17:55

Client ID: DYNA P&T

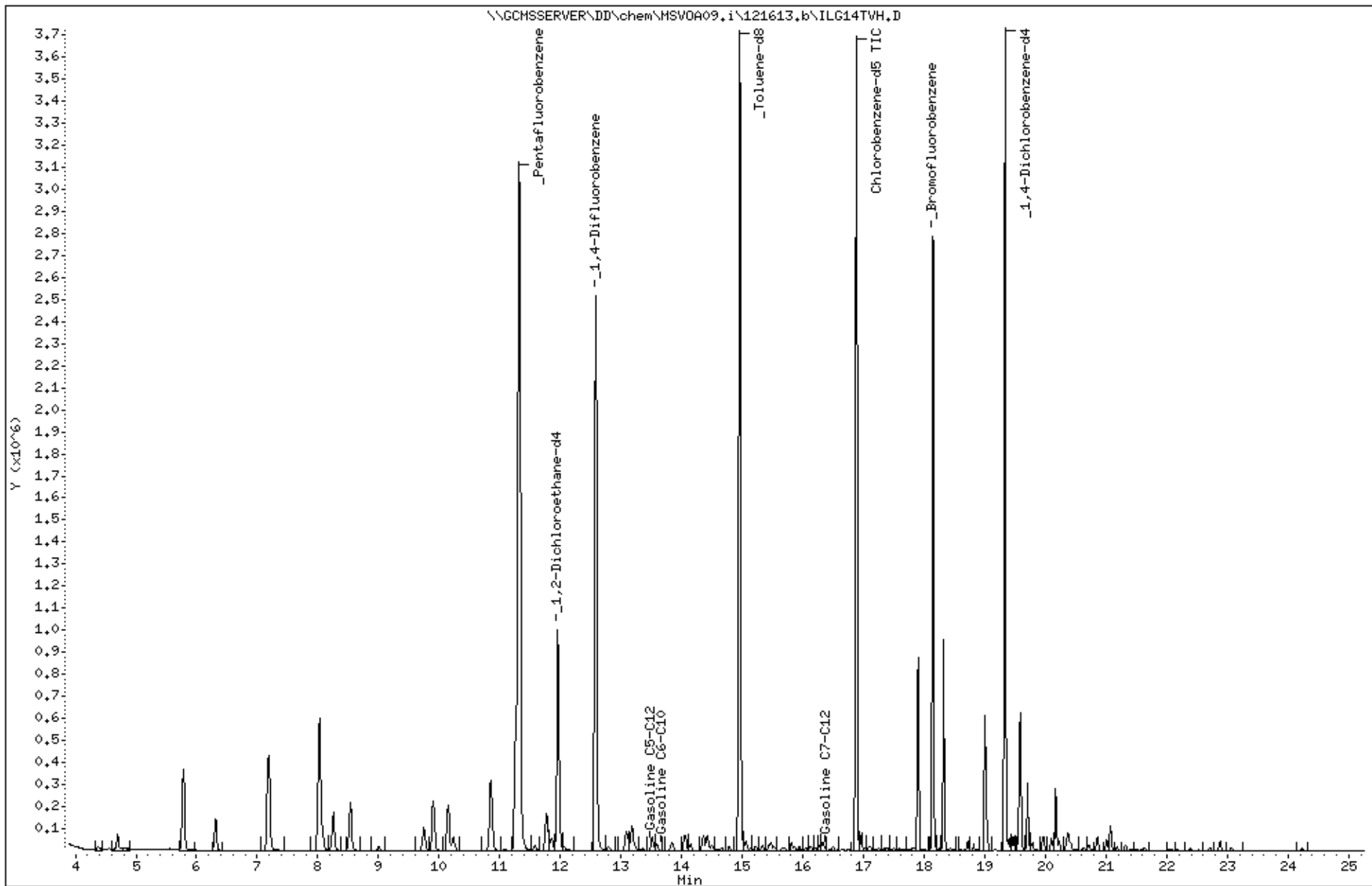
Sample Info: S,251404-002

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 16-DEC-2013 23:02

Client ID: DYNA P&T

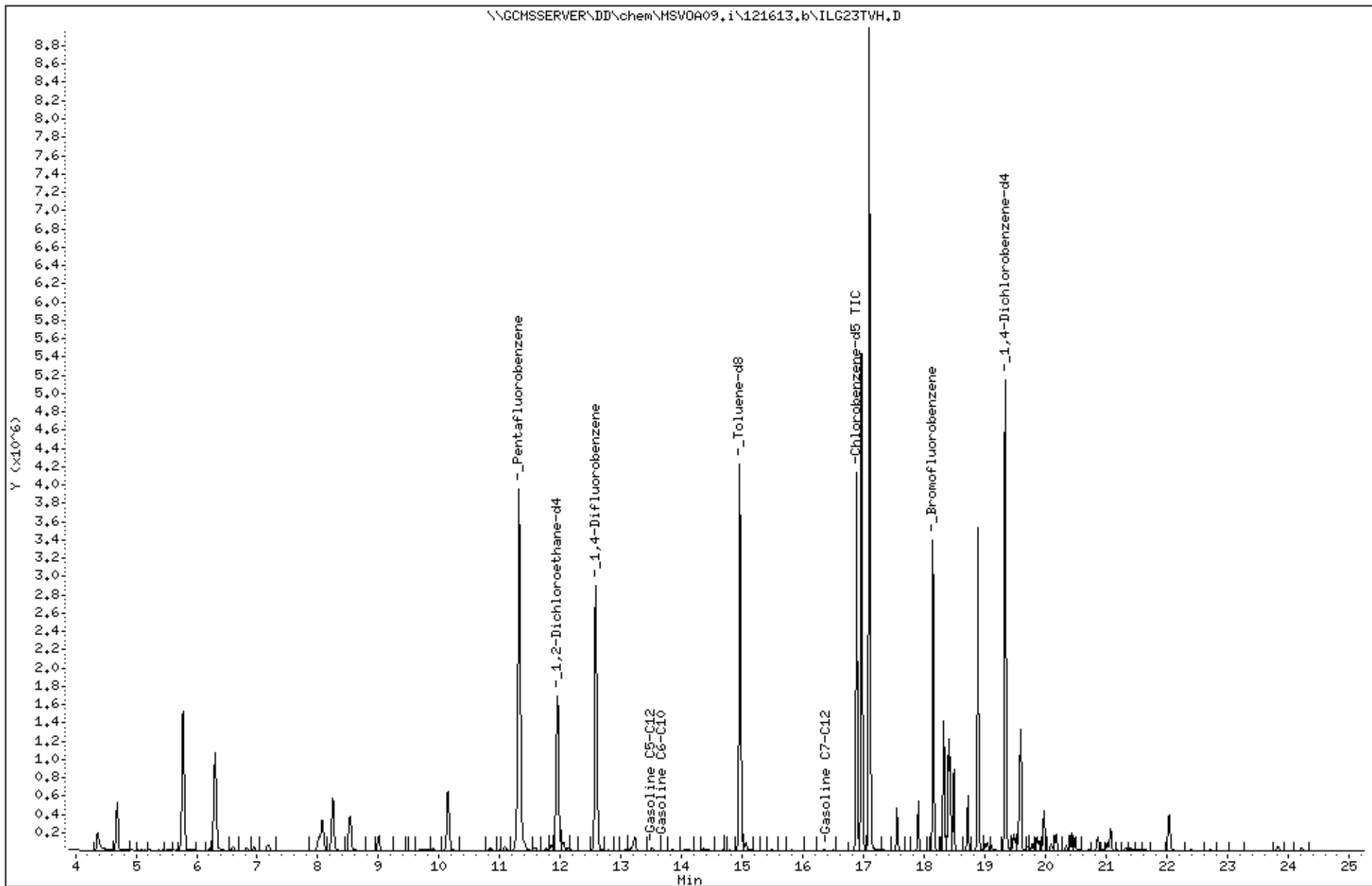
Sample Info: S,251404-003

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 13-DEC-2013 23:41

Client ID: DYNA P&T

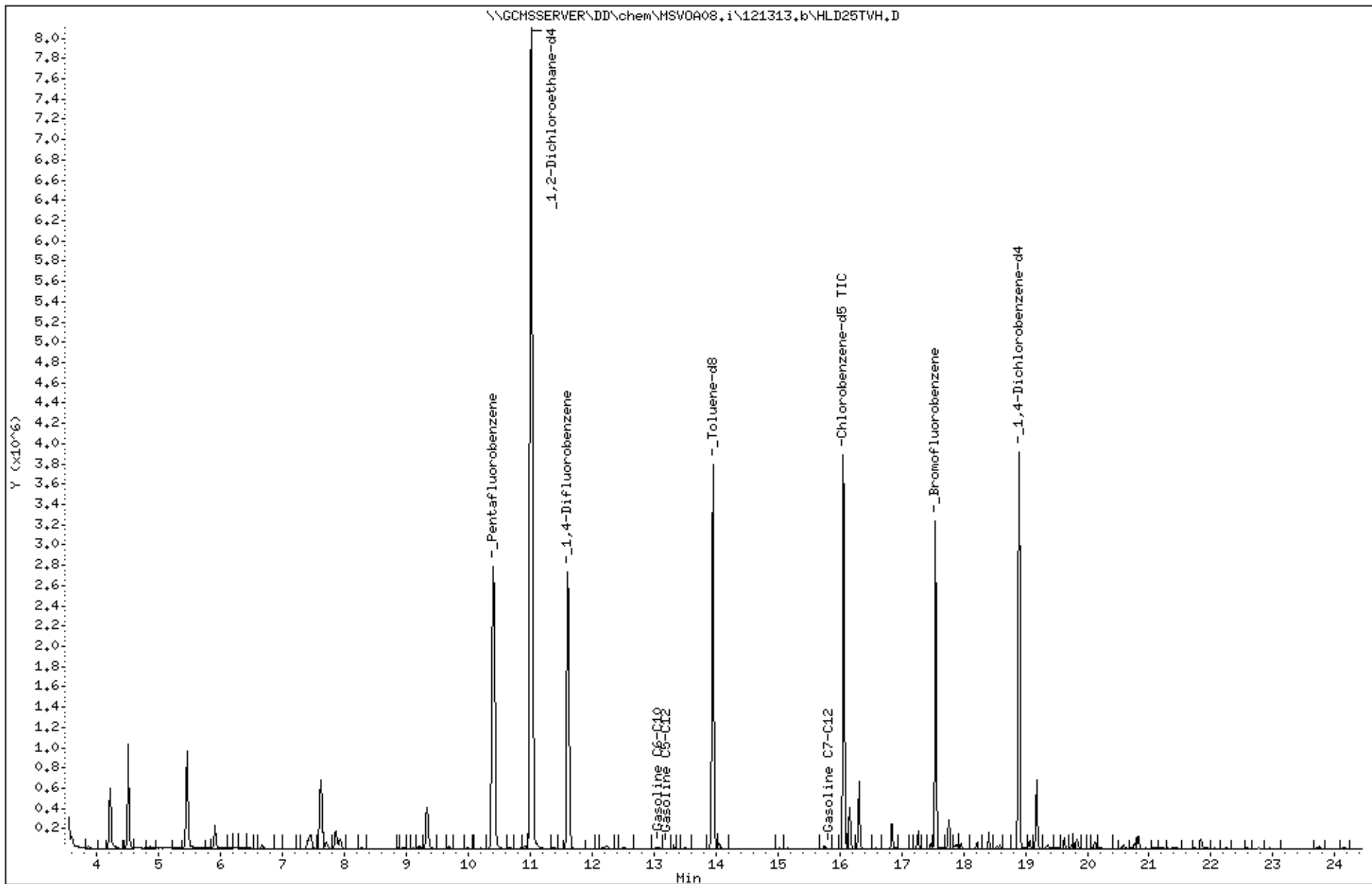
Sample Info: S,251404-004

Instrument: MSV0A08.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 16-DEC-2013 20:45

Client ID: DYNA P&T

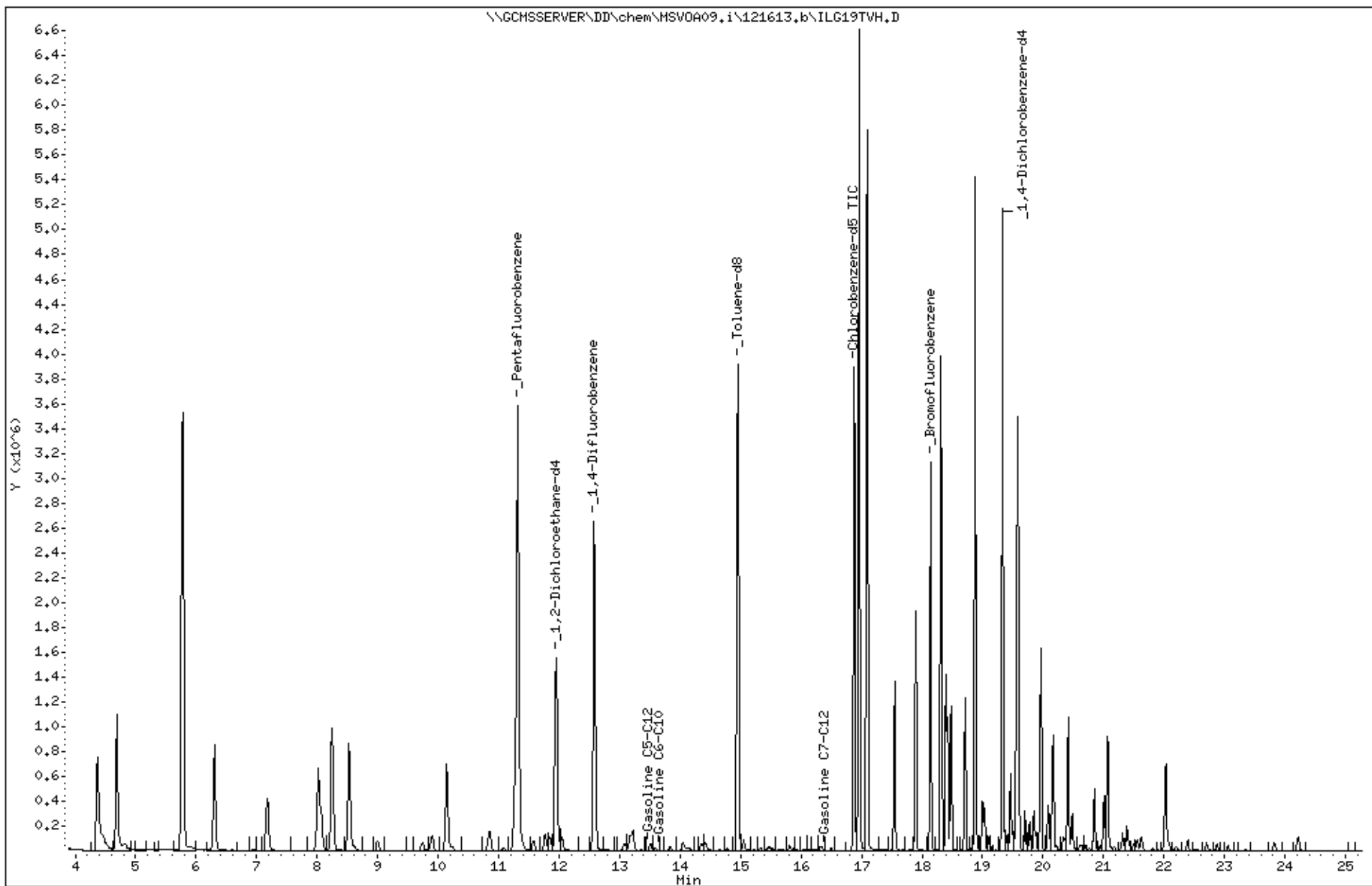
Sample Info: S,251404-005

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 16-DEC-2013 21:53

Client ID: DYNA P&T

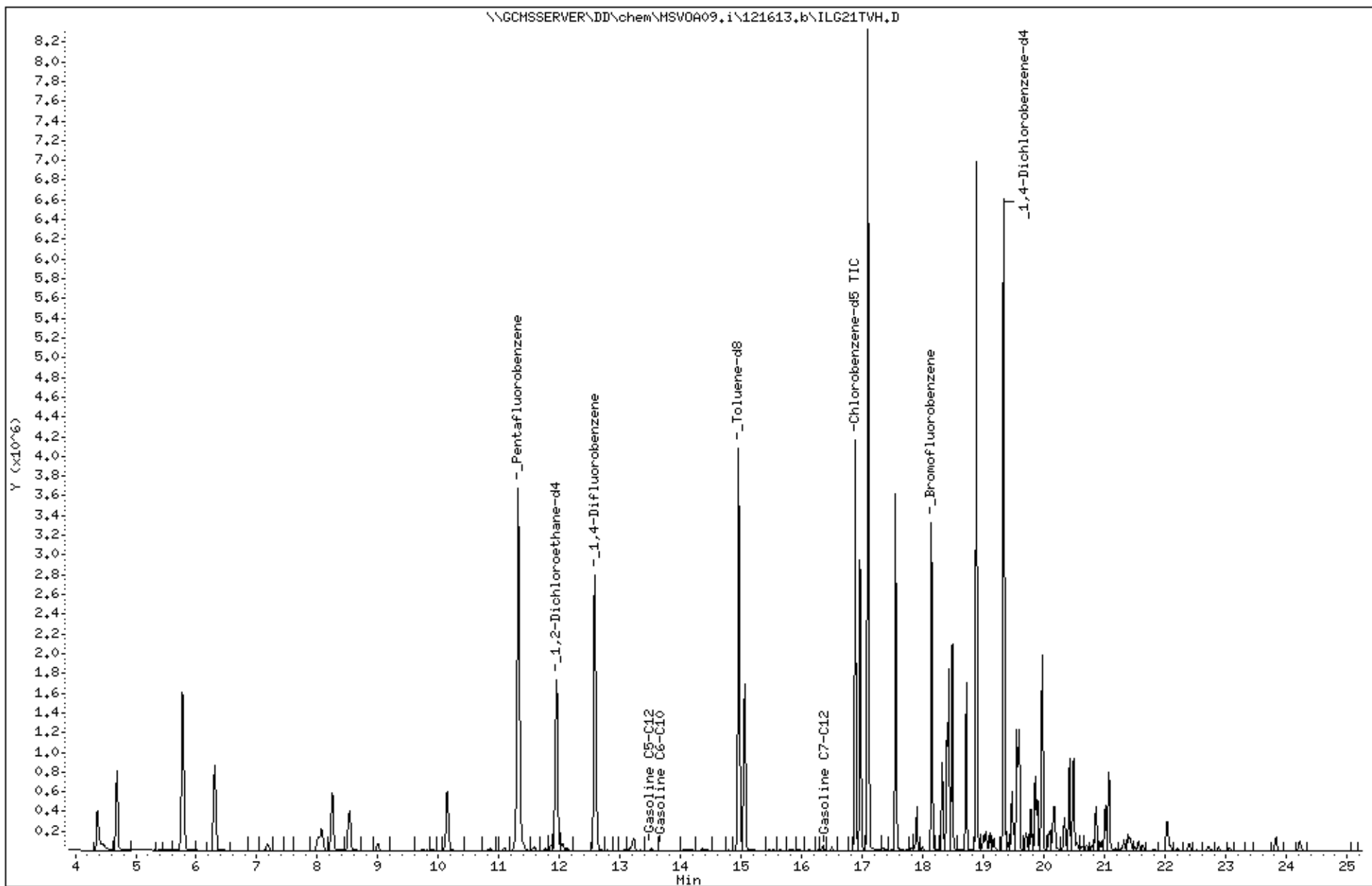
Sample Info: S,251404-006

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 16-DEC-2013 18:29

Client ID: DYNA P&T

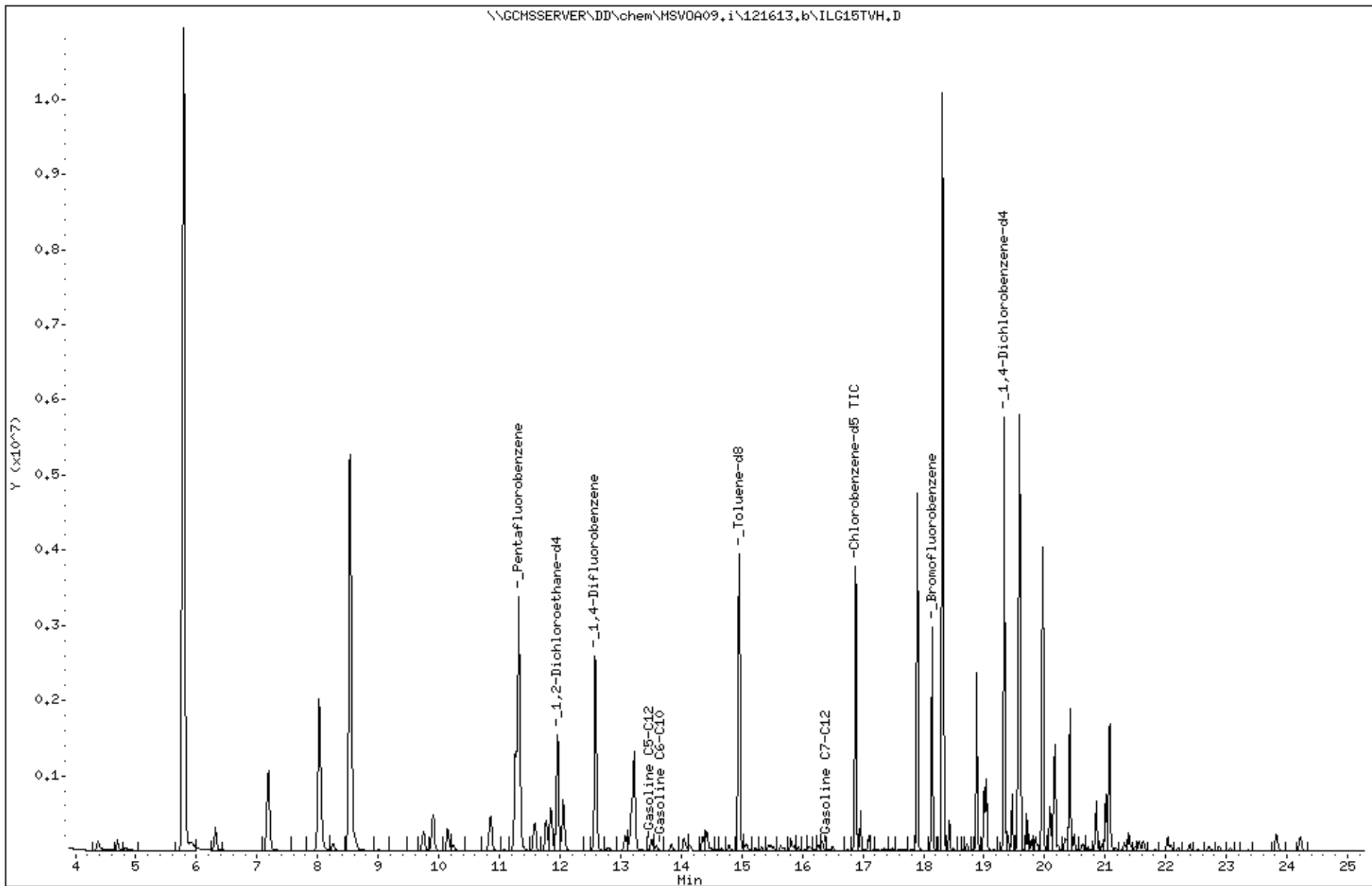
Sample Info: S,251404-007

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 13-DEC-2013 19:48

Client ID: DYNA P&T

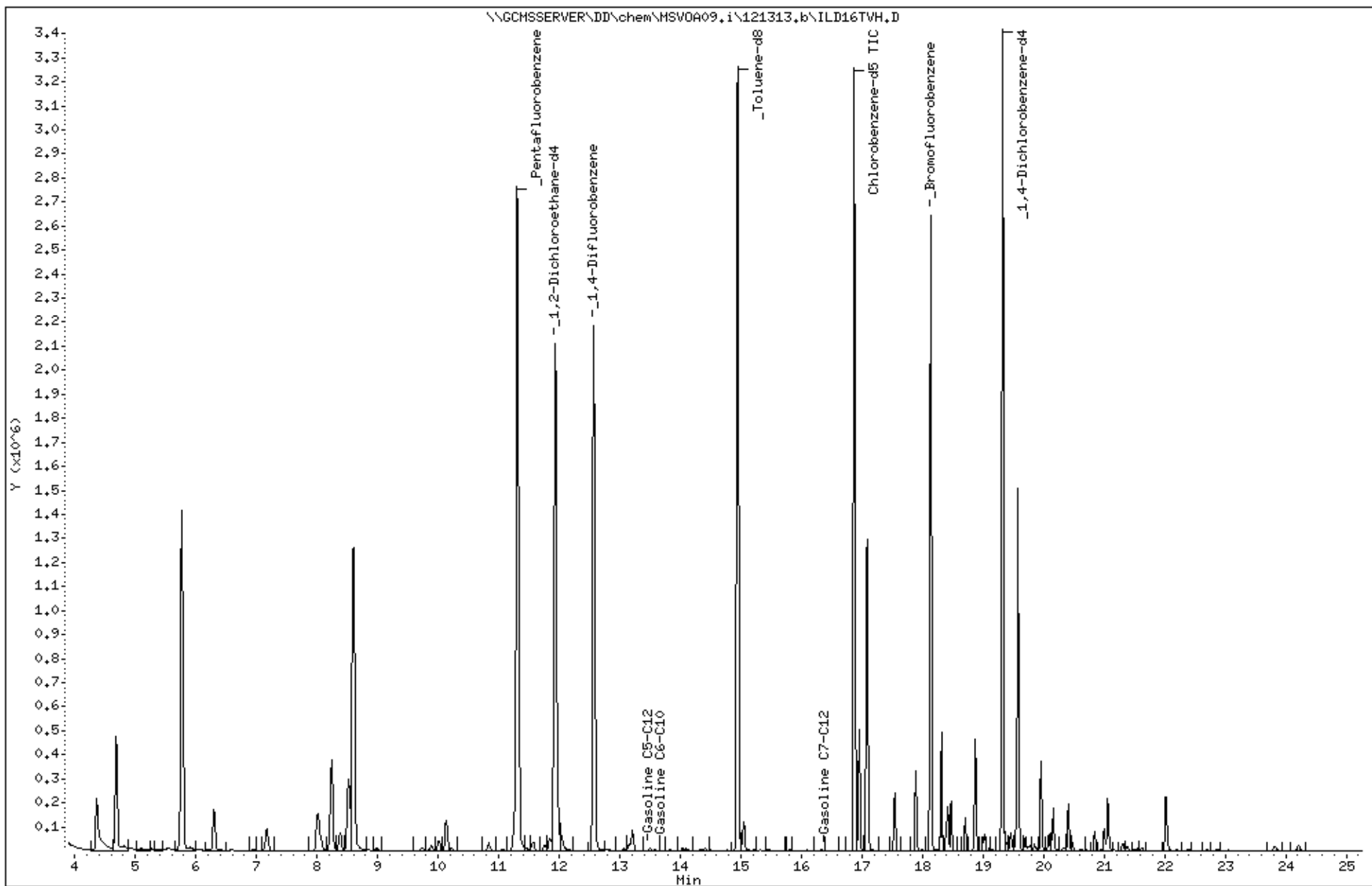
Sample Info: S,251404-011

Instrument: MSV0A09.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 14-DEC-2013 23:35

Client ID: DYNA P&T

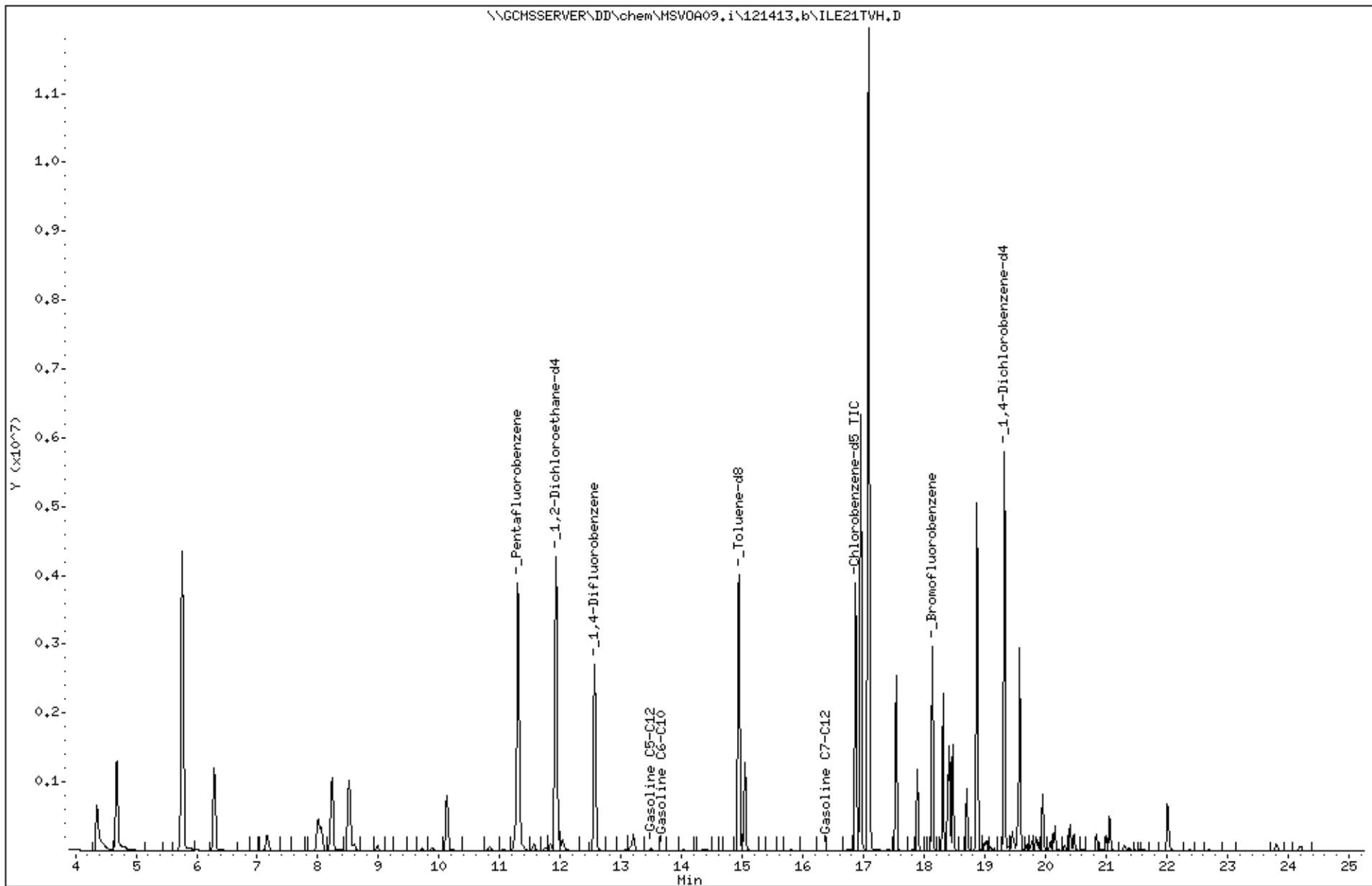
Sample Info: S,251404-012

Instrument: MSV0A09.i

Operator: VOC

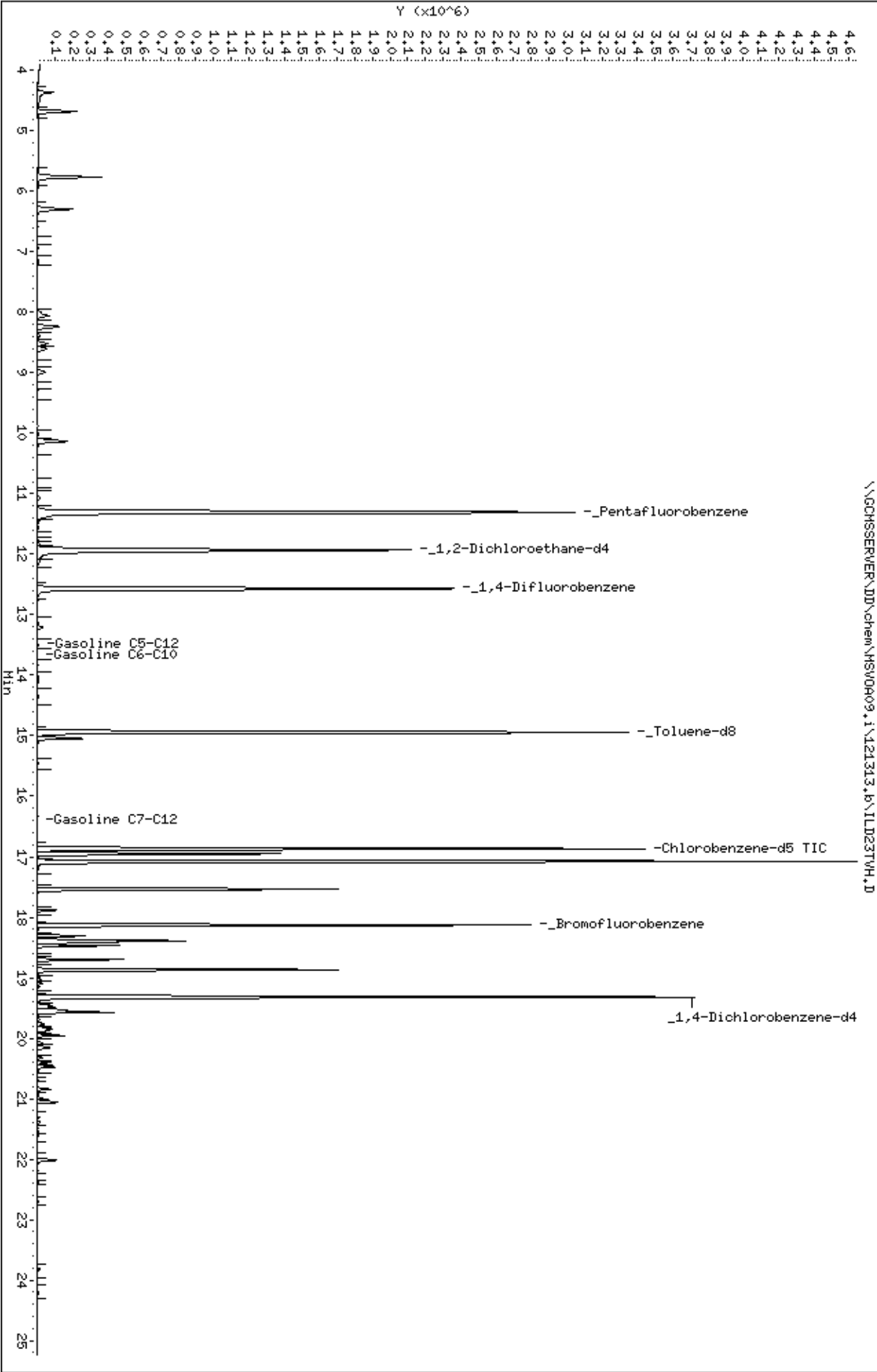
Column diameter: 2.00

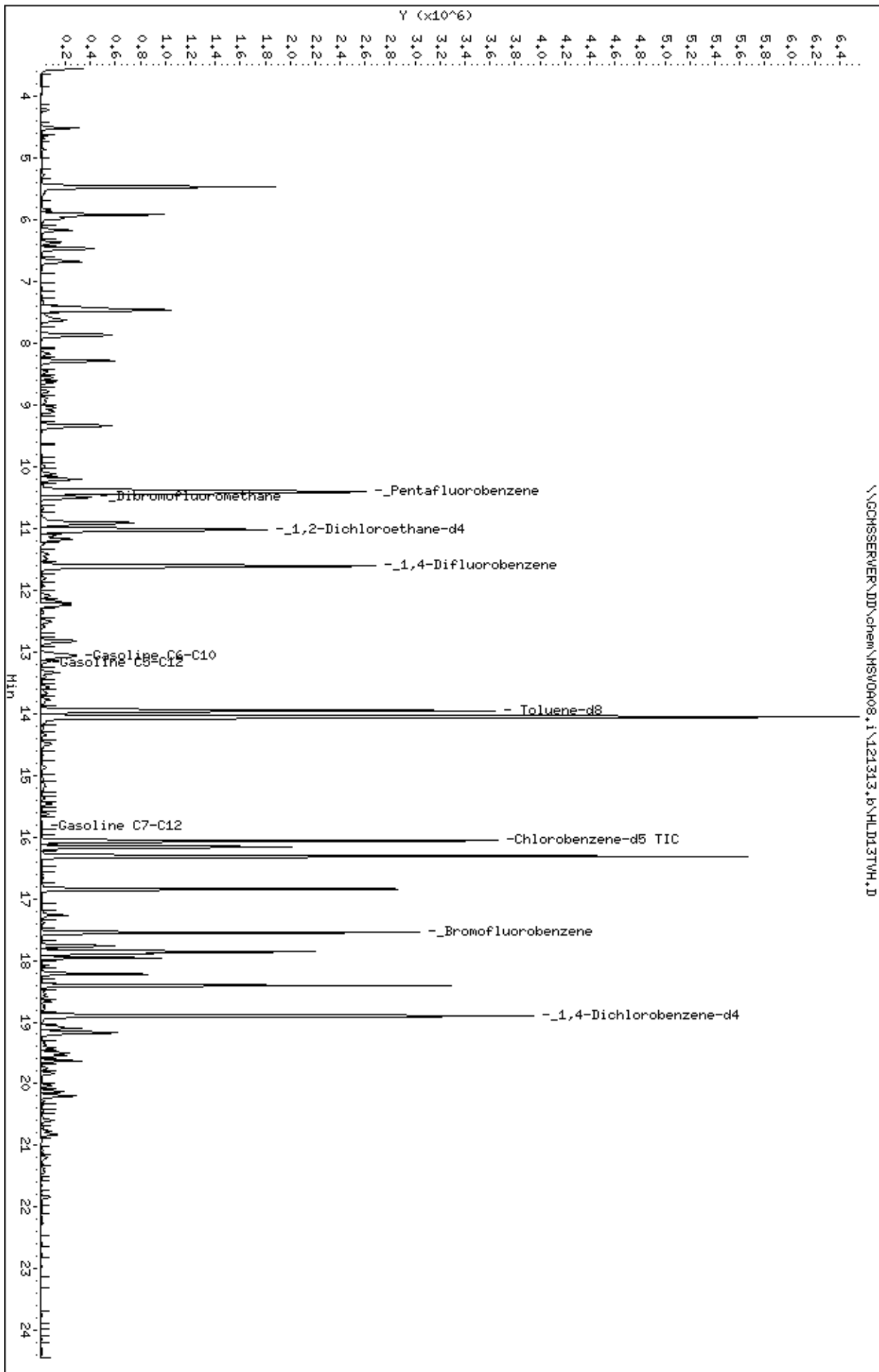
Column phase:



Data File: \\GCHSERVER\DD\chem\HSV0909.i\121313.b\ILD23TVH.D
 Date: 13-DEC-2013 23:47
 Client ID: DYNH P&T
 Sample Info: S,251404-013
 Column phase:

Instrument: HSV0909.i
 Operator: WDC
 Column diameter: 2.00





Appendix D

Laboratory Reports and Chain of Custody Forms for the Treatment System



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

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

**Laboratory Job Number 250253
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2553
Location : 15101 Freedom Ave. San Leandro
Level : II

| <u>Sample ID</u> | <u>Lab ID</u> |
|------------------|---------------|
| EFFLUENT | 250253-001 |
| GAC-1 | 250253-002 |
| INFLUENT | 250253-003 |

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

Date: 11/04/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 250253
Client: SOMA Environmental Engineering Inc.
Project: 2553
Location: 15101 Freedom Ave. San Leandro
Request Date: 10/28/13
Samples Received: 10/28/13

This data package contains sample and QC results for three water samples, requested for the above referenced project on 10/28/13. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

Low recoveries were observed for gasoline C7-C12 in the MS/MSD of INFLUENT (lab # 250253-003); the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

CHAIN OF CUSTODY

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

LOGIN # 25D253

Sampler: MASOUD

Project No: 2553

Report To: Joyce Bobek

Project Name: 15101 Freedom Ave, San Leandro Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Analyses

| | | | | | |
|------------|---|--------------------|---|-----------|--|
| TPH-g 8015 | * | TPH-d, TPH-mo 8015 | * | BTEX 8020 | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |
| | * | | * | | |

| Lab No. | Sample ID. | Sampling Date Time | Matrix | | | # of Containers | Preservative | | | | |
|---------|------------|--------------------|--------|-------|-------|-----------------|--------------|--------------------------------|------------------|-----|---|
| | | | Soil | Water | Waste | | HCL | H ₂ SO ₄ | HNO ₃ | ICE | |
| 1 | EFFLUENT | 10/28/13 10:10 | * | * | | 6 VOAs | * | | | | * |
| | | | | | | 2-500 ml Ambers | | | | | * |
| 2 | GAC-1 | | * | | | 6 VOAs | * | | | | * |
| 3 | INFLUENT | | * | | | 6 VOAs | * | | | | * |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |
| | | | | | | | | | | | |

Notes: EDF OUTPUT REQUIRED

RELINQUISHED BY: [Signature]

RECEIVED BY: [Signature]

| | |
|-----------------------|-----------|
| <u>10/28/13 12:35</u> | DATE/TIME |
| <u>10/28/13 12:35</u> | DATE/TIME |
| <u>10/28/13 12:40</u> | DATE/TIME |

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 250253 Date Received 10/28/13 Number of coolers 1
Client COMA Project 15101 FREEDOM AVE., SAN LEANDRO (2553)

Date Opened 10/29/13 By (print) TR (sign) Julia Rankin
Date Logged in By (print) (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES (NO)
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples X/NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO (N/A)

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Cloth material, Foam blocks, Cardboard, Bags, Styrofoam, None, Paper towels

7. Temperature documentation: * Notify PM if temperature exceeds 6°C

Type of ice used: Wet, Blue/Gel, None Temp(°C)

X Samples Received on ice & cold without a temperature blank; temp. taken with IR gun

X Samples received on ice directly from the field. Cooling process had begun

8. Were Method 5035 sampling containers present? YES (NO)
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES (NO)

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO (N/A)

16. Did you check preservatives for all bottles for each sample? YES NO (N/A)

17. Did you document your preservative check? YES NO (N/A)

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO (N/A)

19. Did you change the hold time in LIMS for preserved terracores? YES NO (N/A)

20. Are bubbles > 6mm absent in VOA samples? YES NO (N/A)

21. Was the client contacted concerning this sample delivery? YES (NO)
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Curtis & Tompkins Laboratories Analytical Report

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 250253 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2553 | |
| Matrix: Water | Sampled: 10/28/13 |
| Units: ug/L | Received: 10/28/13 |

Field ID: EFFLUENT Diln Fac: 1.000
 Type: SAMPLE Batch#: 204510
 Lab ID: 250253-001 Analyzed: 10/29/13

| Analyte | Result | RL | Analysis |
|-----------------|--------|------|-----------|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 109 | 76-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 134 | 70-136 | EPA 8021B |

Field ID: GAC-1 Diln Fac: 1.000
 Type: SAMPLE Batch#: 204510
 Lab ID: 250253-002 Analyzed: 10/29/13

| Analyte | Result | RL | Analysis |
|-----------------|--------|------|-----------|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 110 | 76-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 135 | 70-136 | EPA 8021B |

Field ID: INFLUENT Diln Fac: 12.50
 Type: SAMPLE Batch#: 204591
 Lab ID: 250253-003 Analyzed: 10/30/13

| Analyte | Result | RL | Analysis |
|-----------------|--------|-----|-----------|
| Gasoline C7-C12 | 4,900 | 630 | EPA 8015B |
| Benzene | 88 | 6.3 | EPA 8021B |
| Toluene | 49 | 6.3 | EPA 8021B |
| Ethylbenzene | 150 | 6.3 | EPA 8021B |
| m,p-Xylenes | 490 | 6.3 | EPA 8021B |
| o-Xylene | 93 | 6.3 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 96 | 76-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 95 | 70-136 | EPA 8021B |

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

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-----------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 204510 |
| Units: | ug/L | Analyzed: | 10/29/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC713832

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 9.198 | 92 | 80-120 |
| Toluene | 10.00 | 9.963 | 100 | 80-120 |
| Ethylbenzene | 10.00 | 9.914 | 99 | 80-120 |
| m,p-Xylenes | 10.00 | 9.506 | 95 | 80-120 |
| o-Xylene | 10.00 | 9.991 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 112 | 70-136 |

Type: BSD Lab ID: QC713833

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 9.385 | 94 | 80-120 | 2 | 20 |
| Toluene | 10.00 | 10.17 | 102 | 80-120 | 2 | 20 |
| Ethylbenzene | 10.00 | 9.819 | 98 | 80-120 | 1 | 20 |
| m,p-Xylenes | 10.00 | 10.47 | 105 | 80-120 | 10 | 20 |
| o-Xylene | 10.00 | 10.26 | 103 | 80-120 | 3 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 114 | 70-136 |

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | | |
|-----------|-------------------------------------|-----------|--------------------------------|--|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B | |
| Project#: | 2553 | Analysis: | EPA 8015B | |
| Type: | LCS | Diln Fac: | 1.000 | |
| Lab ID: | QC713834 | Batch#: | 204510 | |
| Matrix: | Water | Analyzed: | 10/29/13 | |
| Units: | ug/L | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 944.2 | 94 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 90 | 76-128 |

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | INFLUENT | Batch#: | 204510 |
| MSS Lab ID: | 250253-003 | Sampled: | 10/28/13 |
| Matrix: | Water | Received: | 10/28/13 |
| Units: | ug/L | Analyzed: | 10/29/13 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC713844

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 4,685 | 2,000 | 6,166 | 74 * | 76-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 120 | 76-128 |

Type: MSD Lab ID: QC713845

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 2,000 | 6,132 | 72 * | 76-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 121 | 76-128 |

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-----------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 204591 |
| Units: | ug/L | Analyzed: | 10/30/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC714196

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 9.177 | 92 | 80-120 |
| Toluene | 10.00 | 9.011 | 90 | 80-120 |
| Ethylbenzene | 10.00 | 9.837 | 98 | 80-120 |
| m,p-Xylenes | 10.00 | 9.461 | 95 | 80-120 |
| o-Xylene | 10.00 | 8.970 | 90 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 95 | 70-136 |

Type: BSD Lab ID: QC714197

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 9.140 | 91 | 80-120 | 0 | 20 |
| Toluene | 10.00 | 8.608 | 86 | 80-120 | 5 | 20 |
| Ethylbenzene | 10.00 | 9.327 | 93 | 80-120 | 5 | 20 |
| m,p-Xylenes | 10.00 | 9.456 | 95 | 80-120 | 0 | 20 |
| o-Xylene | 10.00 | 8.485 | 85 | 80-120 | 6 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 98 | 70-136 |

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | | |
|-----------|-------------------------------------|-----------|--------------------------------|--|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B | |
| Project#: | 2553 | Analysis: | EPA 8015B | |
| Type: | LCS | Diln Fac: | 1.000 | |
| Lab ID: | QC714198 | Batch#: | 204591 | |
| Matrix: | Water | Analyzed: | 10/30/13 | |
| Units: | ug/L | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 959.9 | 96 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 98 | 76-128 |

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 204591 |
| MSS Lab ID: | 250344-005 | Sampled: | 10/20/13 |
| Matrix: | Water | Received: | 10/29/13 |
| Units: | ug/L | Analyzed: | 10/30/13 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC714200

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 20.14 | 2,000 | 1,906 | 94 | 76-120 |

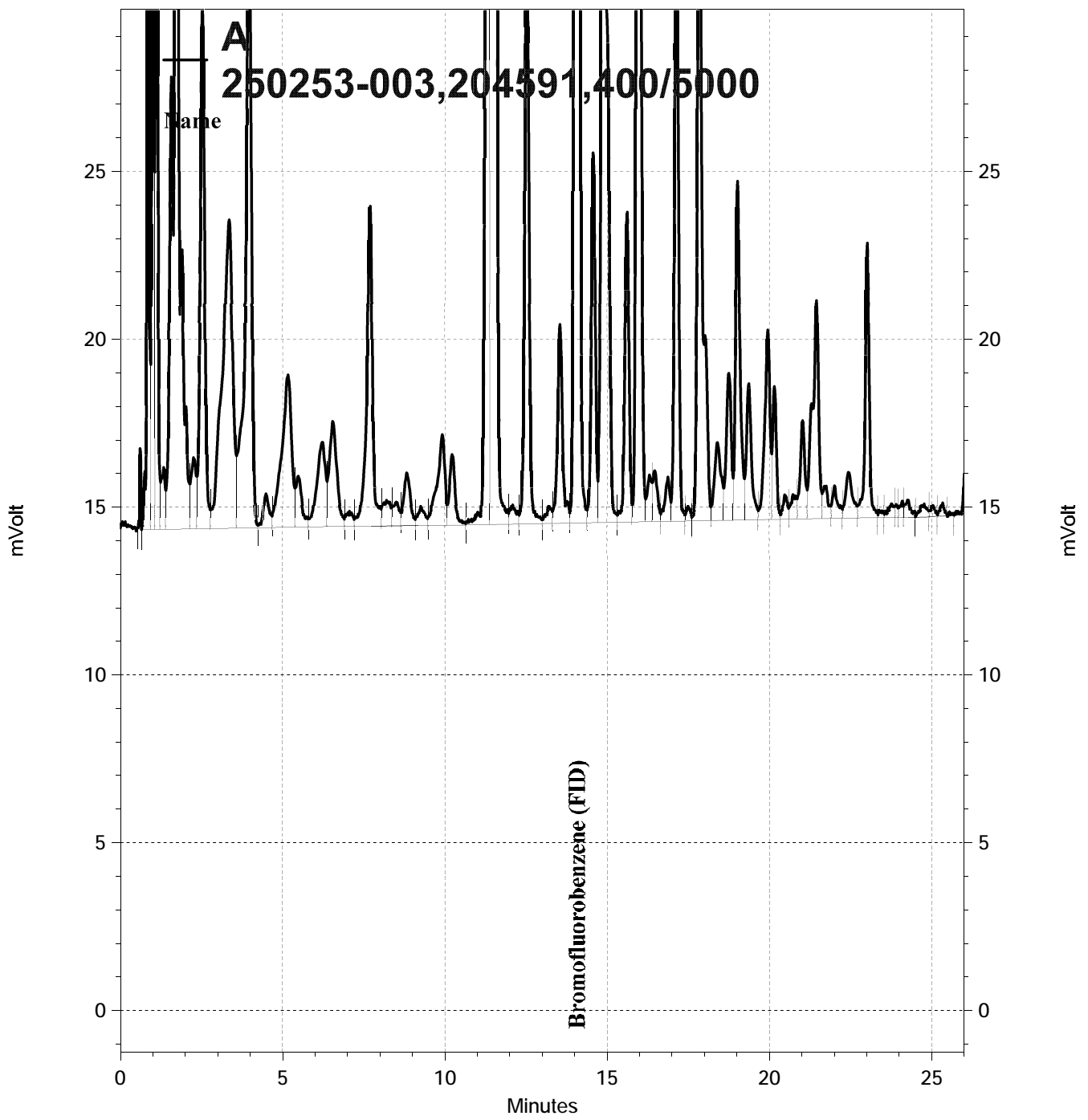
| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 105 | 76-128 |

Type: MSD Lab ID: QC714201

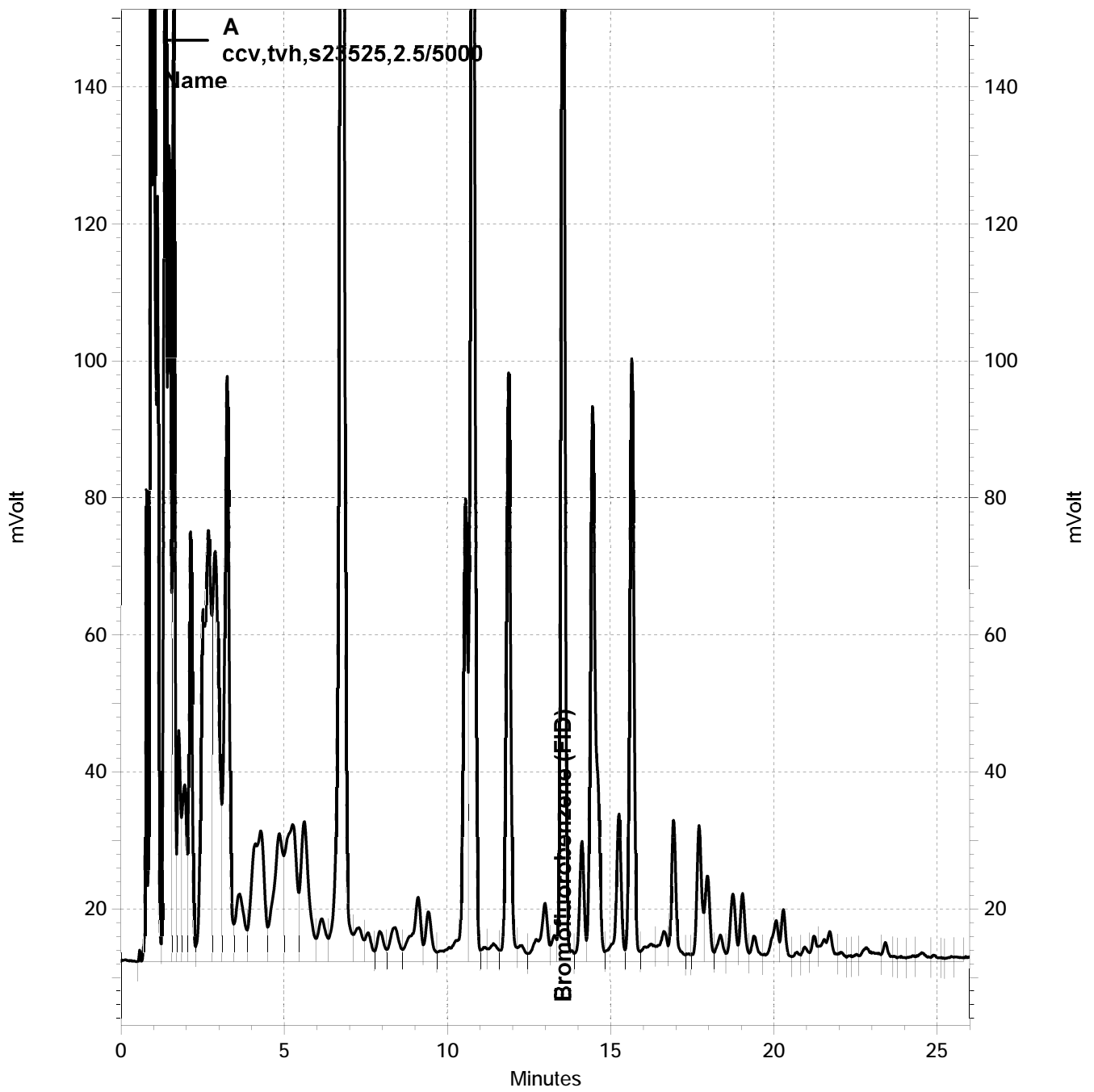
| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 2,000 | 1,919 | 95 | 76-120 | 1 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 110 | 76-128 |

RPD= Relative Percent Difference



— \\Lims\gdrive\ezchrom\Projects\GC19\Data\303-013, A



— \\Lims\gdrive\ezchrom\Projects\GC05\Data\302-003, A

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | EFFLUENT | Sampled: | 10/28/13 |
| Matrix: | Water | Received: | 10/28/13 |
| Units: | ug/L | Prepared: | 10/30/13 |
| Diln Fac: | 1.000 | Analyzed: | 11/01/13 |
| Batch#: | 204592 | | |

Type: SAMPLE Lab ID: 250253-001

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 94 | 62-133 |

Type: BLANK Lab ID: QC714202

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 95 | 62-133 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250253 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 204592 |
| Units: | ug/L | Prepared: | 10/30/13 |
| Diln Fac: | 1.000 | | |

Type: BS Analyzed: 11/01/13
 Lab ID: QC714203 Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,667 | 67 | 59-120 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 93 | 62-133 |

Type: BSD Analyzed: 11/02/13
 Lab ID: QC714204 Cleanup Method: EPA 3630C

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 1,533 | 61 | 59-120 | 8 | 46 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 87 | 62-133 |

RPD= Relative Percent Difference



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

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

**Laboratory Job Number 250800
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2553
Location : 15101 Freedom Ave. San Leandro
Level : II

Sample ID
EFFLUENT

Lab ID
250800-001

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

Date: 11/21/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 250800
Client: SOMA Environmental Engineering Inc.
Project: 2553
Location: 15101 Freedom Ave. San Leandro
Request Date: 11/14/13
Samples Received: 11/14/13

This data package contains sample and QC results for one water sample, requested for the above referenced project on 11/14/13. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 250800 Date Received 11/14/13 Number of coolers 1
Client SOMA Project 15101 FREEDOM AVE, SAN LEANDRO (2553)

Date Opened 11/14/13 By (print) TR (sign) Tina Rankin
Date Logged in [initials] By (print) [initials] (sign) [initials]

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, 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. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A m.g. 11/14

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-----------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | | |
| Field ID: | EFFLUENT | Batch#: | 205111 |
| Matrix: | Water | Sampled: | 11/14/13 |
| Units: | ug/L | Received: | 11/14/13 |
| Diln Fac: | 1.000 | Analyzed: | 11/15/13 |

Type: SAMPLE Lab ID: 250800-001

| Analyte | Result | RL | Analysis |
|-----------------|--------|------|-----------|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 109 | 76-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 118 | 70-136 | EPA 8021B |

Type: BLANK Lab ID: QC716352

| Analyte | Result | RL | Analysis |
|-----------------|--------|------|-----------|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 104 | 76-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 113 | 70-136 | EPA 8021B |

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-----------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 205111 |
| Units: | ug/L | Analyzed: | 11/15/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC716349

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 10.22 | 102 | 80-120 |
| Toluene | 10.00 | 10.12 | 101 | 80-120 |
| Ethylbenzene | 10.00 | 9.775 | 98 | 80-120 |
| m,p-Xylenes | 10.00 | 10.52 | 105 | 80-120 |
| o-Xylene | 10.00 | 10.31 | 103 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 114 | 70-136 |

Type: BSD Lab ID: QC716350

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 10.48 | 105 | 80-120 | 3 | 20 |
| Toluene | 10.00 | 10.47 | 105 | 80-120 | 3 | 20 |
| Ethylbenzene | 10.00 | 9.945 | 99 | 80-120 | 2 | 20 |
| m,p-Xylenes | 10.00 | 10.68 | 107 | 80-120 | 2 | 20 |
| o-Xylene | 10.00 | 10.35 | 103 | 80-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 113 | 70-136 |

RPD= Relative Percent Difference

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | | |
|-----------|-------------------------------------|-----------|--------------------------------|--|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B | |
| Project#: | 2553 | Analysis: | EPA 8015B | |
| Type: | LCS | Diln Fac: | 1.000 | |
| Lab ID: | QC716351 | Batch#: | 205111 | |
| Matrix: | Water | Analyzed: | 11/15/13 | |
| Units: | ug/L | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,023 | 102 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 107 | 76-128 |

Batch QC Report
Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | EFFLUENT | Batch#: | 205111 |
| MSS Lab ID: | 250800-001 | Sampled: | 11/14/13 |
| Matrix: | Water | Received: | 11/14/13 |
| Units: | ug/L | Analyzed: | 11/15/13 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC716353

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 25.35 | 2,000 | 2,048 | 101 | 76-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 115 | 76-128 |

Type: MSD Lab ID: QC716354

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 2,000 | 2,007 | 99 | 76-120 | 2 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 118 | 76-128 |

RPD= Relative Percent Difference

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | EFFLUENT | Batch#: | 205127 |
| Matrix: | Water | Sampled: | 11/14/13 |
| Units: | ug/L | Received: | 11/14/13 |
| Diln Fac: | 1.000 | Prepared: | 11/15/13 |

Type: SAMPLE Analyzed: 11/19/13
 Lab ID: 250800-001

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 49 |
| Motor Oil C24-C36 | ND | 290 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 106 | 62-133 |

Type: BLANK Analyzed: 11/18/13
 Lab ID: QC716407

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 103 | 62-133 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 250800 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 205127 |
| Units: | ug/L | Prepared: | 11/15/13 |
| Diln Fac: | 1.000 | Analyzed: | 11/18/13 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC716408

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 1,986 | 79 | 59-120 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 112 | 62-133 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC716409

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 2,055 | 82 | 59-120 | 3 | 46 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 100 | 62-133 |

RPD= Relative Percent Difference



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

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

**Laboratory Job Number 251453
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2553
Location : 15101 Freedom Ave. San Leandro
Level : II

Sample ID
EFFLUENT

Lab ID
251453-001

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

Date: 12/16/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 251453
Client: SOMA Environmental Engineering Inc.
Project: 2553
Location: 15101 Freedom Ave. San Leandro
Request Date: 12/09/13
Samples Received: 12/06/13

This data package contains sample and QC results for one water sample, requested for the above referenced project on 12/09/13. The sample was received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B and EPA 8021B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

251453

Login # 251404 Date Received 12/6/13 Number of coolers 1
Client SOMA Project 15101 FREEDOM AVE., SAN LEANDRO (2551)

Date Opened 12/6/13 By (print) AR (sign) Tina Rankin
Date Logged in By (print) (sign)

1. Did cooler come with a shipping slip (airbill, etc) YES NO
Shipping info

2A. Were custody seals present? ... YES (circle) on cooler on samples NO
How many Name Date

2B. Were custody seals intact upon arrival? YES NO N/A

3. Were custody papers dry and intact when received? YES NO

4. Were custody papers filled out properly (ink, signed, etc)? YES NO

5. Is the project identifiable from custody papers? (If so fill out top of form) YES NO

6. Indicate the packing in cooler: (if other, describe)

- Bubble Wrap, Foam blocks, Bags, None, Cloth material, 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. Cooling process had begun

8. Were Method 5035 sampling containers present? YES NO
If YES, what time were they transferred to freezer?

9. Did all bottles arrive unbroken/unopened? YES NO

10. Are there any missing / extra samples? YES NO

11. Are samples in the appropriate containers for indicated tests? YES NO

12. Are sample labels present, in good condition and complete? YES NO

13. Do the sample labels agree with custody papers? YES NO

14. Was sufficient amount of sample sent for tests requested? YES NO

15. Are the samples appropriately preserved? YES NO N/A

16. Did you check preservatives for all bottles for each sample? YES NO N/A

17. Did you document your preservative check? YES NO N/A

18. Did you change the hold time in LIMS for unpreserved VOAs? YES NO N/A

19. Did you change the hold time in LIMS for preserved terracores? YES NO N/A

20. Are bubbles > 6mm absent in VOA samples? YES NO N/A

21. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? By Date:

COMMENTS

Blank lines for handwritten comments.

Curtis & Tompkins Laboratories Analytical Report

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 251453 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: EPA 5030B |
| Project#: 2553 | |
| Field ID: EFFLUENT | Diln Fac: 1.000 |
| Matrix: Water | Sampled: 12/06/13 |
| Units: ug/L | Received: 12/06/13 |

Type: SAMPLE Lab ID: 251453-001

| Analyte | Result | RL | Batch# | Analyzed | Analysis |
|-----------------|--------|------|--------|----------|-----------|
| Gasoline C7-C12 | ND | 50 | 205957 | 12/10/13 | EPA 8015B |
| Benzene | ND | 0.50 | 206023 | 12/11/13 | EPA 8021B |
| Toluene | ND | 0.50 | 206023 | 12/11/13 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | 206023 | 12/11/13 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | 206023 | 12/11/13 | EPA 8021B |
| o-Xylene | ND | 0.50 | 206023 | 12/11/13 | EPA 8021B |

| Surrogate | %REC | Limits | Batch# | Analyzed | Analysis |
|--------------------------|------|--------|--------|----------|-----------|
| Bromofluorobenzene (FID) | 101 | 77-128 | 205957 | 12/10/13 | EPA 8015B |
| Bromofluorobenzene (PID) | 119 | 75-132 | 206023 | 12/11/13 | EPA 8021B |

Type: BLANK Batch#: 205957
 Lab ID: QC719695 Analyzed: 12/10/13

| Analyte | Result | RL | Analysis |
|-----------------|--------|----|-----------|
| Gasoline C7-C12 | ND | 50 | EPA 8015B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 98 | 77-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 118 | 75-132 | EPA 8021B |

Type: BLANK Batch#: 206023
 Lab ID: QC719967 Analyzed: 12/11/13

| Analyte | Result | RL | Analysis |
|--------------|--------|------|-----------|
| Benzene | ND | 0.50 | EPA 8021B |
| Toluene | ND | 0.50 | EPA 8021B |
| Ethylbenzene | ND | 0.50 | EPA 8021B |
| m,p-Xylenes | ND | 0.50 | EPA 8021B |
| o-Xylene | ND | 0.50 | EPA 8021B |

| Surrogate | %REC | Limits | Analysis |
|--------------------------|------|--------|-----------|
| Bromofluorobenzene (FID) | 96 | 77-128 | EPA 8015B |
| Bromofluorobenzene (PID) | 117 | 75-132 | EPA 8021B |

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | | |
|-----------|-------------------------------------|-----------|--------------------------------|--|
| Lab #: | 251453 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B | |
| Project#: | 2553 | Analysis: | EPA 8015B | |
| Type: | LCS | Diln Fac: | 1.000 | |
| Lab ID: | QC719694 | Batch#: | 205957 | |
| Matrix: | Water | Analyzed: | 12/10/13 | |
| Units: | ug/L | | | |

| Analyte | Spiked | Result | %REC | Limits |
|-----------------|--------|--------|------|--------|
| Gasoline C7-C12 | 1,000 | 1,064 | 106 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 99 | 77-128 |

Batch QC Report

Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 251453 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | ZZZZZZZZZZ | Batch#: | 205957 |
| MSS Lab ID: | 251478-001 | Sampled: | 12/09/13 |
| Matrix: | Water | Received: | 12/09/13 |
| Units: | ug/L | Analyzed: | 12/10/13 |
| Diln Fac: | 1.000 | | |

Type: MS Lab ID: QC719696

| Analyte | MSS Result | Spiked | Result | %REC | Limits |
|-----------------|------------|--------|--------|------|--------|
| Gasoline C7-C12 | 137.3 | 2,000 | 2,272 | 107 | 74-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 108 | 77-128 |

Type: MSD Lab ID: QC719697

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|-----------------|--------|--------|------|--------|-----|-----|
| Gasoline C7-C12 | 2,000 | 2,173 | 102 | 74-120 | 4 | 27 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (FID) | 106 | 77-128 |

RPD= Relative Percent Difference

Batch QC Report
Curtis & Tompkins Laboratories Analytical Report

| | | | |
|-----------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 251453 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 5030B |
| Project#: | 2553 | Analysis: | EPA 8021B |
| Matrix: | Water | Batch#: | 206023 |
| Units: | ug/L | Analyzed: | 12/11/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC719964

| Analyte | Spiked | Result | %REC | Limits |
|--------------|--------|--------|------|--------|
| Benzene | 10.00 | 10.85 | 109 | 80-120 |
| Toluene | 10.00 | 9.574 | 96 | 80-120 |
| Ethylbenzene | 10.00 | 9.558 | 96 | 80-120 |
| m,p-Xylenes | 10.00 | 9.727 | 97 | 80-120 |
| o-Xylene | 10.00 | 9.973 | 100 | 80-120 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 115 | 75-132 |

Type: BSD Lab ID: QC719965

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|--------------|--------|--------|------|--------|-----|-----|
| Benzene | 10.00 | 10.95 | 109 | 80-120 | 1 | 20 |
| Toluene | 10.00 | 9.900 | 99 | 80-120 | 3 | 20 |
| Ethylbenzene | 10.00 | 9.663 | 97 | 80-120 | 1 | 20 |
| m,p-Xylenes | 10.00 | 9.888 | 99 | 80-120 | 2 | 20 |
| o-Xylene | 10.00 | 9.978 | 100 | 80-120 | 0 | 20 |

| Surrogate | %REC | Limits |
|--------------------------|------|--------|
| Bromofluorobenzene (PID) | 116 | 75-132 |

RPD= Relative Percent Difference

| Total Extractable Hydrocarbons | | | |
|---------------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 251453 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Field ID: | EFFLUENT | Batch#: | 205952 |
| Matrix: | Water | Sampled: | 12/06/13 |
| Units: | ug/L | Received: | 12/06/13 |
| Diln Fac: | 1.000 | Prepared: | 12/10/13 |

Type: SAMPLE Analyzed: 12/12/13
 Lab ID: 251453-001

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 49 |
| Motor Oil C24-C36 | ND | 290 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 111 | 66-129 |

Type: BLANK Analyzed: 12/11/13
 Lab ID: QC719671

| Analyte | Result | RL |
|-------------------|--------|-----|
| Diesel C10-C24 | ND | 50 |
| Motor Oil C24-C36 | ND | 300 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 95 | 66-129 |

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

| Total Extractable Hydrocarbons | | | |
|--------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 251453 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | EPA 3520C |
| Project#: | 2553 | Analysis: | EPA 8015B |
| Matrix: | Water | Batch#: | 205952 |
| Units: | ug/L | Prepared: | 12/10/13 |
| Diln Fac: | 1.000 | Analyzed: | 12/11/13 |

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC719672

| Analyte | Spiked | Result | %REC | Limits |
|----------------|--------|--------|------|--------|
| Diesel C10-C24 | 2,500 | 2,131 | 85 | 61-120 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 107 | 66-129 |

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC719673

| Analyte | Spiked | Result | %REC | Limits | RPD | Lim |
|----------------|--------|--------|------|--------|-----|-----|
| Diesel C10-C24 | 2,500 | 2,284 | 91 | 61-120 | 7 | 45 |

| Surrogate | %REC | Limits |
|-------------|------|--------|
| o-Terphenyl | 117 | 66-129 |

RPD= Relative Percent Difference

Appendix E

MPE Event Field Data Sheets

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|----------------------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| 10/15/2013 | 1130 | Extracting from MPE-1, MPE-2 and MW-6 | | | | | | | | |
| | 1200 | 1498 | 175 | 13.7 | 20 | 149 | 0 | 149 | 1,030 | 0 |
| | 1230 | 1499 | 176 | 13.7 | 20 | 149 | 0 | 149 | 1,011 | |
| | 1300 | 1501 | 176 | 13.7 | 20 | 149 | 0 | 149 | 989 | |
| | 1330 | 1498 | 177 | 13.7 | 20 | 149 | 0 | 149 | 956 | |
| | 1400 | 1500 | 180 | 13.6 | 20 | 149 | 0 | 149 | 928 | |
| | 1430 | 1497 | 182 | 13.6 | 19.9 | 150 | 0 | 150 | 907 | |
| | 1500 | 1501 | 185 | 13.6 | 19.9 | 150 | 0 | 150 | 885 | |
| | 1600 | 1498 | 186 | 13.6 | 19.9 | 150 | 0 | 150 | 852 | |
| | 1700 | 1499 | 186 | 13.7 | 20 | 149 | 0 | 149 | 823 | |
| | 1800 | 1501 | 186 | 13.7 | 20 | 149 | 0 | 149 | 796 | |
| 10/16/2013 | 800 | Extraction from MPE-1 and MW-6 | | | | | | | | |
| | 830 | 1500 | 175 | 13.7 | 20 | 149 | 0 | 149 | 738 | |
| | 900 | 1498 | 176 | 13.6 | 20 | 149 | 0 | 149 | 706 | |
| | 1000 | 1501 | 176 | 13.7 | 20 | 149 | 0 | 149 | 697 | |
| | 1100 | 1499 | 175 | 13.7 | 20 | 149 | 0 | 149 | inf=671; eff=0 | |
| | | Extraction from MPE-1, MPE-2, and MW-6 | | | | | | | | |
| | 1200 | 1498 | 177 | 9.5 | 17.3 | 192 | 0 | 192 | 783 | |
| | 1300 | 1500 | 180 | 9.5 | 17.2 | 193 | 0 | 193 | 751 | |
| | 1400 | 1501 | 183 | 9.4 | 17.2 | 193 | 0 | 193 | 740 | |
| | 1500 | 1498 | 185 | 9.4 | 17.2 | 193 | 0 | 193 | 731 | |
| | 1600 | 1499 | 187 | 9.5 | 17.3 | 192 | 0 | 192 | 706 | |
| | 1700 | 1501 | 187 | 9.5 | 17.3 | 192 | 0 | 192 | 681 | |
| 10/17/2013 | 800 | 1499 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 547 | |
| | 900 | 1500 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 539 | |
| | 1000 | 1499 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 530 | |
| | 1100 | 1501 | 176 | 9.7 | 17.3 | 192 | 0 | 192 | 559 | |
| | 1200 | 1500 | 176 | 9.7 | 17.3 | 192 | 0 | 192 | 551 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1300 | 1499 | 178 | 9.7 | 17.3 | 192 | 0 | 192 | 558 | |
| | 1400 | 1501 | 183 | 9.7 | 17.3 | 192 | 0 | 192 | 554 | |
| | 1500 | 1499 | 186 | 9.7 | 17.3 | 192 | 0 | 192 | 549 | |
| | 1600 | 1501 | 187 | 9.7 | 17.3 | 192 | 0 | 192 | 545 | |
| | 1700 | 1500 | 185 | 9.7 | 17.3 | 192 | 0 | 192 | 544 | |
| 10/18/2013 | 800 | 1501 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 595 | 15,972 |
| | 900 | 1499 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 594 | |
| | 1000 | 1501 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 592 | |
| | 1100 | 1500 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 588 | |
| | 1200 | 1498 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 581 | |
| | 1300 | 1501 | 176 | 9.7 | 17.3 | 192 | 0 | 192 | 568 | |
| | 1400 | 1499 | 180 | 9.7 | 17.3 | 192 | 0 | 192 | 577 | |
| | 1500 | 1500 | 184 | 9.7 | 17.3 | 192 | 0 | 192 | 582 | |
| | 1600 | 1498 | 184 | 9.7 | 17.3 | 192 | 0 | 192 | 571 | |
| | 1700 | 1500 | 182 | 9.7 | 17.3 | 192 | 0 | 192 | 560 | |
| 10/19/2013 | 800 | 1500 | 173 | 10 | 19.4 | 158 | 0 | 158 | 542 | 28,239 |
| | 1000 | 1499 | 174 | 10 | 19 | 165 | 0 | 165 | 549 | |
| | 1130 | 1500 | 175 | 10 | 17 | 196 | 0 | 196 | 656 | |
| | 1400 | 1501 | 178 | 9.4 | 17.2 | 193 | 0 | 193 | 650 | |
| | 1600 | 1503 | 186 | 9.6 | 17.2 | 193 | 0 | 193 | 672 | |
| 10/20/2013 | 800 | 1498 | 172 | 9.6 | 17.3 | 192 | 0 | 192 | 609 | 33,593 |
| | 900 | 1500 | 172 | 9.6 | 17.3 | 192 | 0 | 192 | 621 | |
| | 1000 | 1499 | 173 | 10.1 | 17.5 | 189 | 0 | 189 | 647 | |
| | 1100 | 1500 | 173 | 10 | 17.5 | 189 | 0 | 189 | 653 | |
| | 1200 | 1498 | 175 | 10 | 17.5 | 189 | 0 | 189 | 659 | |
| | 1300 | 1501 | 174 | 10 | 17.5 | 189 | 0 | 189 | 655 | |
| | 1400 | 1500 | 177 | 9.9 | 17.4 | 190 | 0 | 190 | 688 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|----------------------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1500 | 1498 | 179 | 10 | 17.4 | 190 | 0 | 190 | 703 | |
| | 1600 | 1499 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 694 | |
| | 1700 | 1498 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 687 | |
| 10/21/2013 | 800 | 1499 | 173 | 10 | 17.3 | 192 | 0 | 192 | 650 | 39,158 |
| | 900 | 1500 | 174 | 10 | 17.3 | 192 | 0 | 192 | 655 | |
| | | Extraction from MPE-1 and MPE-2 | | | | | | | | |
| | 1000 | 1498 | 174 | 10.2 | 19.5 | 157 | 0 | 157 | 489 | |
| | 1100 | 1501 | 174 | 10.2 | 19.5 | 157 | 0 | 157 | 483 | |
| | 1200 | 1499 | 174 | 10.2 | 19.5 | 157 | 0 | 157 | 478 | |
| | 1300 | 1501 | 175 | 10.2 | 19.5 | 157 | 0 | 157 | 497 | |
| | | Extraction from MPE-1, MPE-2, and MW-6 | | | | | | | | |
| | 1400 | 1500 | 174 | 10 | 17.3 | 192 | 0 | 192 | 721 | |
| | 1500 | 1498 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 704 | |
| | 1600 | 1501 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 873 | |
| | 1700 | 1500 | 178 | 9.8 | 17.3 | 192 | 0 | 192 | 895 | |
| 10/22/2013 | 800 | 1502 | 174 | 10.4 | 17.9 | 182 | 0 | 182 | 1,091 | 46,005 |
| | 900 | 1500 | 174 | 10.4 | 17.9 | 182 | 0 | 182 | 1,069 | |
| | 1000 | 1502 | 174 | 10.3 | 17.8 | 184 | 0 | 184 | 1,007 | |
| | 1100 | 1502 | 174 | 9.9 | 17.8 | 184 | 0 | 184 | 935 | |
| | 1200 | 1500 | 174 | 9.9 | 17.8 | 184 | 0 | 184 | 901 | |
| | 1300 | 1498 | 174 | 9.8 | 17.2 | 193 | 0 | 193 | 845 | |
| | 1400 | 1502 | 174 | 9.8 | 17.2 | 193 | 0 | 193 | 826 | |
| | 1500 | 1499 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 798 | |
| | 1600 | 1501 | 174 | 9.7 | 17.2 | 193 | 0 | 193 | 753 | |
| | 1700 | 1500 | 174 | 9.7 | 17.2 | 193 | 0 | 193 | 724 | |
| 10/23/2013 | 800 | 1500 | 173 | 10.2 | 17.5 | 189 | 0 | 189 | 598 | 53,059 |
| | 900 | 1499 | 172 | 10.2 | 17.5 | 189 | 0 | 189 | 586 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1000 | 1501 | 173 | 10.2 | 17.3 | 192 | 0 | 192 | 571 | |
| | 1100 | 1498 | 173 | 10.2 | 17.3 | 192 | 0 | 192 | 574 | |
| | 1200 | 1502 | 174 | 10.2 | 17.3 | 192 | 0 | 192 | 577 | |
| | 1300 | 1500 | 173 | 10 | 17.3 | 192 | 0 | 192 | 570 | |
| | 1400 | 1501 | 174 | 9.9 | 17.2 | 193 | 0 | 193 | 562 | |
| | 1500 | 1499 | 175 | 9.9 | 17.2 | 193 | 0 | 193 | 557 | |
| | 1600 | 1500 | 174 | 9.9 | 17.2 | 193 | 0 | 193 | 554 | |
| | 1700 | 1500 | 173 | 9.9 | 17.2 | 193 | 0 | 193 | 548 | |
| 10/24/2013 | 800 | 1501 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 494 | 59,974 |
| | 900 | 1499 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 489 | |
| | 1000 | 1498 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 485 | |
| | 1100 | 1501 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 472 | |
| | 1200 | 1502 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 474 | |
| | 1300 | 1498 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 470 | |
| | 1400 | 1500 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 467 | |
| | 1500 | 1499 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 472 | |
| | 1600 | 1500 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 465 | |
| | 1700 | 1502 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 461 | |
| 10/25/2013 | 800 | 1500 | 173 | 10 | 17.5 | 189 | 0 | 189 | 435 | 66,953 |
| | 900 | 1501 | 173 | 10 | 17.5 | 189 | 0 | 189 | 429 | |
| | 1000 | 1499 | 173 | 10 | 17.5 | 189 | 0 | 189 | 420 | |
| | 1100 | 1502 | 174 | 10 | 17.5 | 189 | 0 | 189 | 428 | |
| | 1200 | 1500 | 175 | 10 | 17.4 | 190 | 0 | 190 | 425 | |
| | 1300 | 1501 | 175 | 10 | 17.3 | 192 | 0 | 192 | 427 | |
| | 1400 | 1500 | 175 | 10 | 17.3 | 192 | 0 | 192 | 432 | |
| | 1500 | 1501 | 177 | 10 | 17.2 | 193 | 0 | 193 | 429 | |
| | 1600 | 1500 | 173 | 10 | 17.2 | 193 | 0 | 193 | 418 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1700 | 1501 | 174 | 10 | 17.2 | 193 | 0 | 193 | 417 | |
| 10/26/2013 | 800 | 1500 | 173 | 10 | 17.2 | 193 | 0 | 193 | 407 | 73,499 |
| | 900 | 1500 | 173 | 10 | 17.2 | 193 | 0 | 193 | 414 | |
| | 1000 | 1502 | 174 | 10 | 17.2 | 193 | 0 | 193 | 406 | |
| | 1100 | 1499 | 175 | 10 | 17.3 | 192 | 0 | 192 | 401 | |
| | 1200 | 1500 | 173 | 10 | 17.3 | 192 | 0 | 192 | 395 | |
| | 1300 | 1502 | 175 | 10 | 17.3 | 192 | 0 | 192 | 403 | |
| | 1400 | 1502 | 176 | 10 | 17.3 | 192 | 0 | 192 | 401 | |
| | 1500 | 1500 | 178 | 10 | 17.2 | 193 | 0 | 193 | 402 | |
| | 1600 | 1502 | 181 | 10 | 17.2 | 193 | 0 | 193 | 399 | |
| | 1700 | 1500 | 180 | 10 | 17.2 | 193 | 0 | 193 | 395 | |
| 10/27/2013 | 800 | 1501 | 172 | 10 | 17.3 | 192 | 0 | 192 | 374 | 80,628 |
| | 900 | 1499 | 172 | 10 | 17.3 | 192 | 0 | 192 | 367 | |
| | 1000 | 1500 | 172 | 10 | 17.3 | 192 | 0 | 192 | 364 | |
| | 1100 | 1498 | 173 | 10 | 17.3 | 192 | 0 | 192 | 368 | |
| | 1200 | 1499 | 173 | 10 | 17.3 | 192 | 0 | 192 | 364 | |
| | 1300 | 1499 | 174 | 10 | 17.3 | 192 | 0 | 192 | 371 | |
| | 1400 | 1501 | 173 | 10 | 17.3 | 192 | 0 | 192 | 368 | |
| | 1500 | 1502 | 173 | 10 | 17.3 | 192 | 0 | 192 | 367 | |
| | 1600 | 1500 | 173 | 10 | 17.3 | 192 | 0 | 192 | 368 | |
| | 1700 | 1501 | 172 | 10 | 17.3 | 192 | 0 | 192 | 365 | |
| 10/28/2013 | 800 | 1502 | 172 | 10 | 17.3 | 192 | 0 | 192 | 358 | 87,685 |
| | 900 | 1500 | 173 | 10 | 17.3 | 192 | 0 | 192 | 355 | |
| | 1000 | 1501 | 173 | 10 | 17.3 | 192 | 0 | 192 | 351 | |
| | 1100 | 1501 | 172 | 10 | 17.3 | 192 | 0 | 192 | 347 | |
| | 1200 | 1500 | 173 | 10 | 17.3 | 192 | 0 | 192 | 342 | |
| | 1300 | 1499 | 174 | 10 | 17.3 | 192 | 0 | 192 | 350 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

| MTS OPERATIONAL DATA | | | | | | | | | | |
|----------------------|------|------------------------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
| | 1400 | 1499 | 172 | 10 | 17.3 | 192 | 0 | 192 | 347 | |
| | 1500 | 1501 | 173 | 9.9 | 17.2 | 193 | 0 | 193 | 354 | |
| | 1600 | 1498 | 172 | 9.9 | 17.2 | 193 | 0 | 193 | 346 | |
| | 1700 | 1499 | 172 | 9.9 | 17.2 | 193 | 0 | 193 | 343 | |
| 10/29/2013 | 800 | 1499 | 172 | 10 | 17.5 | 189 | 0 | 189 | 334 | 94,519 |
| | 900 | 1501 | 172 | 10 | 17.5 | 189 | 0 | 189 | 330 | |
| | 1000 | 1498 | 172 | 10 | 17.5 | 189 | 0 | 189 | 328 | |
| | 1100 | 1500 | 173 | 10 | 17.5 | 189 | 0 | 189 | 326 | |
| | 1200 | 1501 | 173 | 10 | 17.4 | 190 | 0 | 190 | 325 | |
| | 1300 | 1500 | 173 | 10 | 17.4 | 190 | 0 | 190 | 331 | |
| | 1400 | 1498 | 174 | 10 | 17.4 | 190 | 0 | 190 | 327 | |
| | 1500 | 1501 | 174 | 10 | 17.3 | 192 | 0 | 192 | 337 | |
| | | System shut down due to equipment issues | | | | | | | | |
| 10/30/2013 | 1130 | Restart system | | | | | | | | |
| | 1200 | 1501 | 172 | 10 | 17.3 | 192 | 0 | 192 | 371 | 99,583 |
| | 1300 | 1499 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 360 | |
| | 1400 | 1502 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 356 | |
| | 1500 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 355 | |
| | 1600 | 1500 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 347 | |
| | 1700 | 1501 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 341 | |
| 10/31/2013 | 800 | 1498 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 319 | 106,172 |
| | 900 | 1501 | 172 | 9.8 | 17.3 | 192 | 0 | 192 | 311 | |
| | 1000 | 1499 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 306 | |
| | 1100 | 1498 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 314 | |
| | 1200 | 1501 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 317 | |
| | 1300 | 1500 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 312 | |
| | 1400 | 1499 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 314 | |
| | 1500 | 1501 | 177 | 9.8 | 17.3 | 192 | 0 | 192 | 310 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|-----------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1600 | 1499 | 177 | 9.8 | 17.3 | 192 | 0 | 192 | 307 | |
| | 1700 | 1500 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 303 | |
| 11/1/2013 | 800 | 1499 | 173 | 9.9 | 17.4 | 190 | 0 | 190 | 331 | 113,164 |
| | 900 | 1501 | 174 | 9.9 | 17.4 | 190 | 0 | 190 | 317 | |
| | 1000 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 327 | |
| | 1100 | 1498 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 322 | |
| | 1200 | 1499 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 316 | |
| | 1300 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 330 | |
| | 1400 | 1501 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 319 | |
| | 1500 | 1500 | 178 | 9.8 | 17.3 | 192 | 0 | 192 | 317 | |
| | 1600 | 1502 | 181 | 9.8 | 17.3 | 192 | 0 | 192 | 341 | |
| | 1700 | 1501 | 180 | 9.8 | 17.3 | 192 | 0 | 192 | 346 | |
| 11/2/2013 | 800 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 334 | 119,674 |
| | 900 | 1501 | 172 | 9.9 | 17.3 | 192 | 0 | 192 | 332 | |
| | 1000 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 336 | |
| | 1100 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 339 | |
| | 1200 | 1499 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 342 | |
| | 1300 | 1501 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 346 | |
| | 1400 | 1502 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 345 | |
| | 1500 | 1501 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 342 | |
| | 1600 | 1499 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 334 | |
| | 1700 | 1498 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 343 | |
| 11/3/2013 | 800 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 330 | 126,970 |
| | 900 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 323 | |
| | 1000 | 1502 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 326 | |
| | 1100 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 334 | |
| | 1200 | 1502 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 336 | |
| | 1300 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 335 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|-----------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1400 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 334 | |
| | 1500 | 1500 | 172 | 9.9 | 17.3 | 192 | 0 | 192 | 330 | |
| | 1600 | 1501 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 332 | |
| | 1700 | 1502 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 330 | |
| 11/4/2013 | 800 | 1499 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 302 | 134,153 |
| | 900 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 311 | |
| | 1000 | 1502 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 319 | |
| | 1100 | 1501 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 328 | |
| | 1200 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 334 | |
| | 1300 | 1490 | 176 | 9.9 | 17.3 | 192 | 0 | 192 | 329 | |
| | 1400 | 1501 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 356 | |
| | 1500 | 1502 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 324 | |
| | 1600 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 321 | |
| | 1700 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 320 | |
| 11/5/2013 | 800 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 316 | 141,067 |
| | 900 | 1499 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 321 | |
| | 1000 | 1501 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 317 | |
| | 1100 | 1499 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 331 | |
| | 1200 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 332 | |
| | 1300 | 1502 | 178 | 9.9 | 17.3 | 192 | 0 | 192 | 335 | |
| | 1400 | 1498 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 324 | |
| | 1500 | 1502 | 173 | 9.8 | 17.3 | 192 | 0 | 192 | 318 | |
| | 1600 | 1500 | 174 | 9.8 | 17.3 | 192 | 0 | 192 | 315 | |
| | 1700 | 1501 | 177 | 9.8 | 17.3 | 192 | 0 | 192 | 317 | |
| 11/6/2013 | 800 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 311 | 147,951 |
| | 900 | 1499 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 306 | |
| | 1000 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 303 | |
| | 1100 | 1498 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 312 | |
| | 1200 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 321 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|-----------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1300 | 1502 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 319 | |
| | 1400 | 1499 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 315 | |
| | 1500 | 1501 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 296 | |
| | 1600 | 1499 | 176 | 9.9 | 17.3 | 192 | 0 | 192 | 289 | |
| | 1700 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 304 | |
| 11/7/2013 | 800 | 1499 | 173 | 10 | 17.5 | 189 | 0 | 189 | 297 | 154,804 |
| | 900 | 1501 | 173 | 10 | 17.5 | 189 | 0 | 189 | 305 | |
| | 1000 | 1498 | 174 | 10 | 17.5 | 189 | 0 | 189 | 308 | |
| | 1100 | 1499 | 174 | 10 | 17.5 | 189 | 0 | 189 | 311 | |
| | 1200 | 1501 | 175 | 10 | 17.5 | 189 | 0 | 189 | 314 | |
| | 1300 | 1500 | 176 | 10 | 17.5 | 189 | 0 | 189 | 316 | |
| | 1400 | 1499 | 179 | 10 | 17.5 | 189 | 0 | 189 | 328 | |
| | 1500 | 1500 | 179 | 10 | 17.4 | 190 | 0 | 190 | 319 | |
| | 1600 | 1499 | 176 | 10 | 17.4 | 190 | 0 | 190 | 315 | |
| | 1700 | 1500 | 175 | 10 | 17.4 | 190 | 0 | 190 | 311 | |
| 11/8/2013 | 800 | 1501 | 172 | 10 | 17.4 | 190 | 0 | 190 | 301 | 161,203 |
| | 900 | 1499 | 172 | 10 | 17.4 | 190 | 0 | 190 | 292 | |
| | 1000 | 1502 | 174 | 10 | 17.4 | 190 | 0 | 190 | 303 | |
| | 1100 | 1500 | 174 | 10 | 17.4 | 190 | 0 | 190 | 311 | |
| | 1200 | 1498 | 175 | 10 | 17.4 | 190 | 0 | 190 | 313 | |
| | 1300 | 1500 | 175 | 9.9 | 17.4 | 190 | 0 | 190 | 312 | |
| | 1400 | 1501 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 317 | |
| | 1500 | 1499 | 176 | 9.9 | 17.3 | 192 | 0 | 192 | 310 | |
| | 1600 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 309 | |
| | 1700 | 1501 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 321 | |
| 11/9/2013 | 800 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 302 | 168,020 |
| | 900 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 308 | |
| | 1000 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 300 | |
| | 1100 | 1499 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 305 | |

ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 1200 | 1498 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 311 | |
| | 1300 | 1499 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 309 | |
| | 1400 | 1500 | 180 | 9.9 | 17.3 | 192 | 0 | 192 | 310 | |
| | 1500 | 1501 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 306 | |
| | 1600 | 1500 | 176 | 9.8 | 17.3 | 192 | 0 | 192 | 304 | |
| | 1700 | 1500 | 175 | 9.8 | 17.3 | 192 | 0 | 192 | 305 | |
| 11/10/2013 | 800 | 1498 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 288 | 174,710 |
| | 900 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 285 | |
| | 1000 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 286 | |
| | 1100 | 1500 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 294 | |
| | 1200 | 1499 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 301 | |
| | 1300 | 1499 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 300 | |
| | 1400 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 299 | |
| | 1500 | 1499 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 297 | |
| | 1600 | 1498 | 172 | 9.9 | 17.3 | 192 | 0 | 192 | 295 | |
| | 1700 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 298 | |
| 11/11/2013 | 800 | 1499 | 172 | 9.9 | 17.3 | 192 | 0 | 192 | 307 | 181,649 |
| | 1700 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 301 | |
| 11/12/2013 | 800 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 308 | 187,965 |
| | 900 | 1499 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 304 | |
| | 1000 | 1501 | 174 | 9.9 | 17.3 | 192 | 0 | 192 | 307 | |
| | 1100 | 1501 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 308 | |
| | 1200 | 1499 | 176 | 9.9 | 17.3 | 192 | 0 | 192 | 310 | |
| | 1300 | 1500 | 178 | 9.9 | 17.3 | 192 | 0 | 192 | 309 | |
| | 1400 | 1501 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 311 | |
| | 1500 | 1499 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 316 | |
| | 1600 | 1499 | 178 | 9.9 | 17.3 | 192 | 0 | 192 | 310 | |
| | 1700 | 1501 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 308 | |
| 11/13/2013 | 800 | 1500 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 302 | 194,520 |

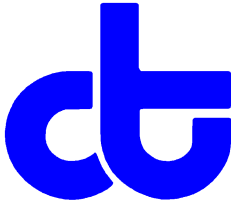
ADDRESS: 15101 Freedom Ave., San Leandro
PROJECT #: 2555

MTS OPERATIONAL DATA

| DATE | TIME | OXIDIZER TEMPERATURE (F) | PUMP/AIR TEMPERATURE (F) | STINGER VACUUM (IN-Hg) | PUMP VACUUM (IN-Hg) | TOTAL FLOW (SCFM) | DILUTION FLOW (SCFM) | WELL FLOW (SCFM) | INFLUENT CONCENTRATION (PPMV) | WATER TOTALIZER |
|------------|------|--------------------------|--------------------------|------------------------|---------------------|-------------------|----------------------|------------------|-------------------------------|-----------------|
| | 900 | 1498 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 298 | |
| | 1000 | 1499 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 293 | |
| | 1100 | 1500 | 175 | 9.9 | 17.3 | 192 | 0 | 192 | 305 | |
| | 1200 | 1499 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 314 | |
| | 1300 | 1500 | 179 | 9.9 | 17.3 | 192 | 0 | 192 | 310 | |
| | 1400 | 1501 | 181 | 9.9 | 17.3 | 192 | 0 | 192 | 306 | |
| | 1500 | 1499 | 181 | 9.9 | 17.3 | 192 | 0 | 192 | 298 | |
| | 1600 | 1502 | 177 | 9.9 | 17.3 | 192 | 0 | 192 | 305 | |
| | 1700 | 1499 | 173 | 9.9 | 17.3 | 192 | 0 | 192 | 315 | |
| 11/14/2013 | 800 | 1502 | 174 | 10.1 | 17.4 | 190 | 0 | 190 | 312 | 201,163 |
| | 900 | 1500 | 173 | 10.1 | 17.4 | 190 | 0 | 190 | 323 | |
| | 1000 | 1501 | 173 | 10 | 17.4 | 190 | 0 | 190 | 309 | |
| | 1100 | 1498 | 173 | 10 | 17.4 | 190 | 0 | 190 | 302 | |
| | 1200 | 1500 | 174 | 10 | 17.4 | 190 | 0 | 190 | 314 | |
| | 1300 | 1499 | 174 | 10 | 17.4 | 190 | 0 | 190 | 309 | |
| | 1400 | 1501 | 174 | 10 | 17.3 | 192 | 0 | 192 | 307 | |
| | 1500 | 1502 | 172 | 10 | 17.3 | 192 | 0 | 192 | 302 | |
| | 1600 | 1499 | 172 | 10 | 17.3 | 192 | 0 | 192 | 308 | |
| | 1700 | 1500 | 172 | 10 | 17.3 | 192 | 0 | 192 | 305 | |
| 11/15/2013 | 800 | 1501 | 174 | 10 | 17.3 | 192 | 0 | 192 | 284 | |
| | 900 | 1499 | 172 | 10 | 17.3 | 192 | 0 | 192 | 287 | |
| | 1000 | 1498 | 174 | 10 | 17.3 | 192 | 0 | 192 | 281 | |
| | 1100 | 1500 | 174 | 10 | 17.3 | 192 | 0 | 192 | 290 | |
| | 1200 | 1501 | 174 | 10 | 17.3 | 192 | 0 | 192 | 287 | |
| | 1300 | 1499 | 174 | 10 | 17.3 | 192 | 0 | 192 | 294 | |
| | 1400 | 1501 | 175 | 10 | 17.3 | 192 | 0 | 192 | 296 | 207,635 |
| | | End of MPE Event | | | | | | | | |

Appendix F

Laboratory Report and Chain of Custody Form for the MPE Event



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

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

**Laboratory Job Number 249943
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc.
6620 Owens Dr.
Pleasanton, CA 94588

Project : 2555
Location : 15101 Freedom Ave. San Leandro
Level : II

Sample ID

EFF MPE
INF MPE

Lab ID

249943-001
249943-002

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

Date: 10/23/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 249943
Client: SOMA Environmental Engineering Inc.
Project: 2555
Location: 15101 Freedom Ave. San Leandro
Request Date: 10/16/13
Samples Received: 10/16/13

This data package contains sample and QC results for two air samples, requested for the above referenced project on 10/16/13. The samples were received intact.

Volatile Organics in Air by MS (EPA TO-15):

High RPD was observed for naphthalene in the BS/BSD for batch 204124; this analyte was not detected at or above the RL in the associated samples. No other analytical problems were encountered.

Volatile Organics in Air GC (EPA TO-3):

Gasoline range organics C6-C12 was detected between the MDL and the RL in the method blank for batch 204153; this analyte was detected in samples at a level at least 10 times that of the blank. No other analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 249943 Date Received 10/16/13 Number of coolers 1
 Client SOMA Project 15101 FREEDOM AVE., SAN LEANDRO
 (2555)
 Date Opened 10/16/13 By (print) JK (sign) Fina Kauka
 Date Logged in ↓ By (print) ↓ (sign) ↓

1. Did cooler come with a shipping slip (airbill, etc) _____ YES (NO)
 Shipping info _____
- 2A. Were custody seals present? YES (circle) on cooler on samples NO
 How many _____ Name _____ Date _____
- 2B. Were custody seals intact upon arrival? _____ YES NO (N/A)
3. Were custody papers dry and intact when received? _____ (YES) NO
4. Were custody papers filled out properly (ink, signed, etc)? _____ (YES) NO
5. Is the project identifiable from custody papers? (If so fill out top of form) _____ (YES) NO
6. Indicate the packing in cooler: (if other, describe) _____

- Bubble Wrap Foam blocks Bags None
 Cloth material 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. Cooling process had begun

8. Were Method 5035 sampling containers present? _____ YES (NO)
 If YES, what time were they transferred to freezer? _____
9. Did all bottles arrive unbroken/unopened? _____ (YES) NO
10. Are there any missing / extra samples? _____ YES (NO)
11. Are samples in the appropriate containers for indicated tests? _____ (YES) NO
12. Are sample labels present, in good condition and complete? _____ (YES) NO
13. Do the sample labels agree with custody papers? _____ (YES) NO
14. Was sufficient amount of sample sent for tests requested? _____ (YES) NO
15. Are the samples appropriately preserved? _____ YES NO (N/A)
16. Did you check preservatives for all bottles for each sample? _____ YES NO (N/A)
17. Did you document your preservative check? _____ YES NO (N/A)
18. Did you change the hold time in LIMS for unpreserved VOAs? _____ YES NO (N/A)
19. Did you change the hold time in LIMS for preserved terracores? _____ YES NO (N/A)
20. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
21. Was the client contacted concerning this sample delivery? _____ YES (NO)
 If YES, Who was called? _____ By _____ Date: _____

COMMENTS

Volatile Organics in Air

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 249943 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: METHOD |
| Project#: 2555 | Analysis: EPA TO-15 |
| Field ID: EFF MPE | Units (M): ug/m3 |
| Lab ID: 249943-001 | Sampled: 10/16/13 |
| Matrix: Air | Received: 10/16/13 |
| Units (V): ppbv | |

| Analyte | Result (V) | RL | Result (M) | RL | Diln Fac | Batch# | Analyzed |
|--------------------------|------------|------|------------|-----|----------|--------|----------|
| Freon 12 | ND | 0.50 | ND | 2.5 | 1.000 | 204124 | 10/17/13 |
| Freon 114 | ND | 0.50 | ND | 3.5 | 1.000 | 204124 | 10/17/13 |
| Chloromethane | ND | 0.50 | ND | 1.0 | 1.000 | 204124 | 10/17/13 |
| Vinyl Chloride | ND | 0.50 | ND | 1.3 | 1.000 | 204124 | 10/17/13 |
| 1,3-Butadiene | ND | 0.50 | ND | 1.1 | 1.000 | 204124 | 10/17/13 |
| Bromomethane | ND | 0.50 | ND | 1.9 | 1.000 | 204124 | 10/17/13 |
| Chloroethane | ND | 0.50 | ND | 1.3 | 1.000 | 204124 | 10/17/13 |
| Trichlorofluoromethane | ND | 0.50 | ND | 2.8 | 1.000 | 204124 | 10/17/13 |
| Acrolein | 2.4 | 2.0 | 5.5 | 4.6 | 1.000 | 204124 | 10/17/13 |
| 1,1-Dichloroethene | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| Freon 113 | ND | 0.50 | ND | 3.8 | 1.000 | 204124 | 10/17/13 |
| Acetone | 48 | 2.0 | 110 | 4.8 | 1.000 | 204124 | 10/17/13 |
| Carbon Disulfide | ND | 0.50 | ND | 1.6 | 1.000 | 204124 | 10/17/13 |
| Methylene Chloride | ND | 0.50 | ND | 1.7 | 1.000 | 204124 | 10/17/13 |
| trans-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| MTBE | ND | 0.50 | ND | 1.8 | 1.000 | 204124 | 10/17/13 |
| n-Hexane | ND | 0.50 | ND | 1.8 | 1.000 | 204124 | 10/17/13 |
| 1,1-Dichloroethane | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| Vinyl Acetate | ND | 0.50 | ND | 1.8 | 1.000 | 204124 | 10/17/13 |
| cis-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| 2-Butanone | 26 | 0.50 | 76 | 1.5 | 1.000 | 204124 | 10/17/13 |
| Ethyl Acetate | ND | 0.50 | ND | 1.8 | 1.000 | 204124 | 10/17/13 |
| Tetrahydrofuran | 85 | 1.0 | 250 | 2.9 | 2.000 | 204171 | 10/18/13 |
| Chloroform | ND | 0.50 | ND | 2.4 | 1.000 | 204124 | 10/17/13 |
| 1,1,1-Trichloroethane | ND | 0.50 | ND | 2.7 | 1.000 | 204124 | 10/17/13 |
| Cyclohexane | ND | 0.50 | ND | 1.7 | 1.000 | 204124 | 10/17/13 |
| Carbon Tetrachloride | ND | 0.50 | ND | 3.1 | 1.000 | 204124 | 10/17/13 |
| Benzene | ND | 0.50 | ND | 1.6 | 1.000 | 204124 | 10/17/13 |
| 1,2-Dichloroethane | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| n-Heptane | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| Trichloroethene | ND | 0.50 | ND | 2.7 | 1.000 | 204124 | 10/17/13 |
| 1,2-Dichloropropane | ND | 0.50 | ND | 2.3 | 1.000 | 204124 | 10/17/13 |
| Bromodichloromethane | ND | 0.50 | ND | 3.4 | 1.000 | 204124 | 10/17/13 |
| cis-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 | 1.000 | 204124 | 10/17/13 |
| 4-Methyl-2-Pentanone | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| Toluene | 1.1 | 0.50 | 4.2 | 1.9 | 1.000 | 204124 | 10/17/13 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

| Volatile Organics in Air | | | |
|--------------------------|-------------------------------------|------------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Field ID: | EFF MPE | Units (M): | ug/m3 |
| Lab ID: | 249943-001 | Sampled: | 10/16/13 |
| Matrix: | Air | Received: | 10/16/13 |
| Units (V): | ppbv | | |

| Analyte | Result (V) | RL | Result (M) | RL | Diln Fac | Batch# | Analyzed |
|---------------------------|------------|------|------------|-----|----------|--------|----------|
| trans-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 | 1.000 | 204124 | 10/17/13 |
| 1,1,2-Trichloroethane | ND | 0.50 | ND | 2.7 | 1.000 | 204124 | 10/17/13 |
| Tetrachloroethene | 2.8 | 0.50 | 19 | 3.4 | 1.000 | 204124 | 10/17/13 |
| 2-Hexanone | ND | 0.50 | ND | 2.0 | 1.000 | 204124 | 10/17/13 |
| Dibromochloromethane | ND | 0.50 | ND | 4.3 | 1.000 | 204124 | 10/17/13 |
| 1,2-Dibromoethane | ND | 0.50 | ND | 3.8 | 1.000 | 204124 | 10/17/13 |
| Chlorobenzene | ND | 0.50 | ND | 2.3 | 1.000 | 204124 | 10/17/13 |
| Ethylbenzene | ND | 0.50 | ND | 2.2 | 1.000 | 204124 | 10/17/13 |
| m,p-Xylenes | 1.2 | 0.50 | 5.4 | 2.2 | 1.000 | 204124 | 10/17/13 |
| o-Xylene | 0.52 | 0.50 | 2.2 | 2.2 | 1.000 | 204124 | 10/17/13 |
| Styrene | ND | 0.50 | ND | 2.1 | 1.000 | 204124 | 10/17/13 |
| Bromoform | ND | 0.50 | ND | 5.2 | 1.000 | 204124 | 10/17/13 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 3.4 | 1.000 | 204124 | 10/17/13 |
| 4-Ethyltoluene | ND | 0.50 | ND | 2.5 | 1.000 | 204124 | 10/17/13 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 2.5 | 1.000 | 204124 | 10/17/13 |
| 1,2,4-Trimethylbenzene | 1.5 | 0.50 | 7.5 | 2.5 | 1.000 | 204124 | 10/17/13 |
| 1,3-Dichlorobenzene | ND | 0.50 | ND | 3.0 | 1.000 | 204124 | 10/17/13 |
| 1,4-Dichlorobenzene | ND | 0.50 | ND | 3.0 | 1.000 | 204124 | 10/17/13 |
| Benzyl chloride | ND | 0.50 | ND | 2.6 | 1.000 | 204124 | 10/17/13 |
| 1,2-Dichlorobenzene | ND | 0.50 | ND | 3.0 | 1.000 | 204124 | 10/17/13 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 3.7 | 1.000 | 204124 | 10/17/13 |
| Hexachlorobutadiene | ND | 0.50 | ND | 5.3 | 1.000 | 204124 | 10/17/13 |
| Naphthalene | ND | 2.0 | ND | 10 | 1.000 | 204124 | 10/17/13 |

| Surrogate | %REC | Limits | Diln Fac | Batch# | Analyzed |
|--------------------|------|--------|----------|--------|----------|
| Bromofluorobenzene | 93 | 70-130 | 1.000 | 204124 | 10/17/13 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Volatile Organics in Air

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 249943 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: METHOD |
| Project#: 2555 | Analysis: EPA TO-15 |
| Field ID: INF MPE | Diln Fac: 200.0 |
| Lab ID: 249943-002 | Batch#: 204124 |
| Matrix: Air | Sampled: 10/16/13 |
| Units (V): ppbv | Received: 10/16/13 |
| Units (M): ug/m3 | Analyzed: 10/17/13 |

| Analyte | Result (V) | RL | Result (M) | RL |
|--------------------------|------------|-----|------------|-----|
| Freon 12 | ND | 100 | ND | 490 |
| Freon 114 | ND | 100 | ND | 700 |
| Chloromethane | ND | 100 | ND | 210 |
| Vinyl Chloride | ND | 100 | ND | 260 |
| 1,3-Butadiene | ND | 100 | ND | 220 |
| Bromomethane | ND | 100 | ND | 390 |
| Chloroethane | ND | 100 | ND | 260 |
| Trichlorofluoromethane | ND | 100 | ND | 560 |
| Acrolein | ND | 400 | ND | 920 |
| 1,1-Dichloroethene | ND | 100 | ND | 400 |
| Freon 113 | ND | 100 | ND | 770 |
| Acetone | ND | 400 | ND | 950 |
| Carbon Disulfide | ND | 100 | ND | 310 |
| Methylene Chloride | ND | 100 | ND | 350 |
| trans-1,2-Dichloroethene | ND | 100 | ND | 400 |
| MTBE | ND | 100 | ND | 360 |
| n-Hexane | 18,000 | 100 | 64,000 | 350 |
| 1,1-Dichloroethane | ND | 100 | ND | 400 |
| Vinyl Acetate | ND | 100 | ND | 350 |
| cis-1,2-Dichloroethene | ND | 100 | ND | 400 |
| 2-Butanone | ND | 100 | ND | 290 |
| Ethyl Acetate | ND | 100 | ND | 360 |
| Tetrahydrofuran | 230 | 100 | 680 | 290 |
| Chloroform | ND | 100 | ND | 490 |
| 1,1,1-Trichloroethane | ND | 100 | ND | 550 |
| Cyclohexane | 9,300 | 100 | 32,000 | 340 |
| Carbon Tetrachloride | ND | 100 | ND | 630 |
| Benzene | 920 | 100 | 2,900 | 320 |
| 1,2-Dichloroethane | ND | 100 | ND | 400 |
| n-Heptane | 9,200 | 100 | 38,000 | 410 |
| Trichloroethene | ND | 100 | ND | 540 |
| 1,2-Dichloropropane | ND | 100 | ND | 460 |
| Bromodichloromethane | ND | 100 | ND | 670 |
| cis-1,3-Dichloropropene | ND | 100 | ND | 450 |
| 4-Methyl-2-Pentanone | ND | 100 | ND | 410 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Volatile Organics in Air

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 249943 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: METHOD |
| Project#: 2555 | Analysis: EPA TO-15 |
| Field ID: INF MPE | Diln Fac: 200.0 |
| Lab ID: 249943-002 | Batch#: 204124 |
| Matrix: Air | Sampled: 10/16/13 |
| Units (V): ppbv | Received: 10/16/13 |
| Units (M): ug/m3 | Analyzed: 10/17/13 |

| Analyte | Result (V) | RL | Result (M) | RL |
|---------------------------|------------|-----|------------|-------|
| Toluene | 3,200 | 100 | 12,000 | 380 |
| trans-1,3-Dichloropropene | ND | 100 | ND | 450 |
| 1,1,2-Trichloroethane | ND | 100 | ND | 550 |
| Tetrachloroethene | ND | 100 | ND | 680 |
| 2-Hexanone | ND | 100 | ND | 410 |
| Dibromochloromethane | ND | 100 | ND | 850 |
| 1,2-Dibromoethane | ND | 100 | ND | 770 |
| Chlorobenzene | ND | 100 | ND | 460 |
| Ethylbenzene | 1,300 | 100 | 5,700 | 430 |
| m,p-Xylenes | 8,500 | 100 | 37,000 | 430 |
| o-Xylene | 3,100 | 100 | 14,000 | 430 |
| Styrene | ND | 100 | ND | 430 |
| Bromoform | ND | 100 | ND | 1,000 |
| 1,1,2,2-Tetrachloroethane | ND | 100 | ND | 690 |
| 4-Ethyltoluene | 1,000 | 100 | 4,900 | 490 |
| 1,3,5-Trimethylbenzene | 1,200 | 100 | 5,800 | 490 |
| 1,2,4-Trimethylbenzene | 1,800 | 100 | 8,600 | 490 |
| 1,3-Dichlorobenzene | ND | 100 | ND | 600 |
| 1,4-Dichlorobenzene | ND | 100 | ND | 600 |
| Benzyl chloride | ND | 100 | ND | 520 |
| 1,2-Dichlorobenzene | ND | 100 | ND | 600 |
| 1,2,4-Trichlorobenzene | ND | 100 | ND | 740 |
| Hexachlorobutadiene | ND | 100 | ND | 1,100 |
| Naphthalene | ND | 400 | ND | 2,100 |

| Surrogate | %REC | Limits |
|--------------------|------|--------|
| Bromofluorobenzene | 114 | 70-130 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204124 |
| Units (V): | ppbv | Analyzed: | 10/17/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC712237

| Analyte | Spiked | Result (V) | %REC | Limits |
|--------------------------|--------|------------|------|--------|
| Freon 12 | 16.67 | 18.48 | 111 | 70-130 |
| Freon 114 | 16.67 | 18.78 | 113 | 70-130 |
| Chloromethane | 16.67 | 20.06 | 120 | 70-130 |
| Vinyl Chloride | 16.67 | 18.40 | 110 | 70-130 |
| 1,3-Butadiene | 16.67 | 18.90 | 113 | 70-130 |
| Bromomethane | 16.67 | 19.63 | 118 | 70-130 |
| Chloroethane | 16.67 | 20.25 | 121 | 70-130 |
| Trichlorofluoromethane | 16.67 | 18.68 | 112 | 70-130 |
| Acrolein | 16.67 | 17.30 | 104 | 61-130 |
| 1,1-Dichloroethene | 16.67 | 21.43 | 129 | 70-130 |
| Freon 113 | 16.67 | 18.00 | 108 | 70-130 |
| Acetone | 16.67 | 17.06 | 102 | 70-130 |
| Carbon Disulfide | 16.67 | 18.04 | 108 | 70-130 |
| Methylene Chloride | 16.67 | 16.99 | 102 | 70-130 |
| trans-1,2-Dichloroethene | 16.67 | 19.00 | 114 | 70-130 |
| MTBE | 16.67 | 19.01 | 114 | 70-130 |
| n-Hexane | 16.67 | 17.96 | 108 | 70-130 |
| 1,1-Dichloroethane | 16.67 | 19.25 | 116 | 70-130 |
| Vinyl Acetate | 16.67 | 20.22 | 121 | 70-130 |
| cis-1,2-Dichloroethene | 16.67 | 18.21 | 109 | 70-130 |
| 2-Butanone | 16.67 | 18.63 | 112 | 70-130 |
| Ethyl Acetate | 16.67 | 18.32 | 110 | 70-130 |
| Tetrahydrofuran | 16.67 | 16.27 | 98 | 70-130 |
| Chloroform | 16.67 | 18.03 | 108 | 70-130 |
| 1,1,1-Trichloroethane | 16.67 | 18.47 | 111 | 70-130 |
| Cyclohexane | 16.67 | 19.62 | 118 | 70-130 |
| Carbon Tetrachloride | 16.67 | 17.29 | 104 | 70-130 |
| Benzene | 16.67 | 18.63 | 112 | 70-130 |
| 1,2-Dichloroethane | 16.67 | 19.36 | 116 | 70-130 |
| n-Heptane | 16.67 | 19.29 | 116 | 70-130 |
| Trichloroethene | 16.67 | 18.44 | 111 | 70-130 |
| 1,2-Dichloropropane | 16.67 | 19.69 | 118 | 70-130 |
| Bromodichloromethane | 16.67 | 18.75 | 112 | 70-130 |

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204124 |
| Units (V): | ppbv | Analyzed: | 10/17/13 |
| Diln Fac: | 1.000 | | |

| Analyte | Spiked | Result (V) | %REC | Limits |
|---------------------------|---------------|-------------------|-------------|---------------|
| cis-1,3-Dichloropropene | 16.67 | 19.24 | 115 | 70-130 |
| 4-Methyl-2-Pentanone | 16.67 | 18.72 | 112 | 70-130 |
| Toluene | 16.67 | 17.58 | 105 | 70-130 |
| trans-1,3-Dichloropropene | 16.67 | 19.14 | 115 | 70-130 |
| 1,1,2-Trichloroethane | 16.67 | 18.08 | 108 | 70-130 |
| Tetrachloroethene | 16.67 | 17.69 | 106 | 70-130 |
| 2-Hexanone | 16.67 | 18.58 | 111 | 70-130 |
| Dibromochloromethane | 16.67 | 18.08 | 108 | 70-130 |
| 1,2-Dibromoethane | 16.67 | 18.30 | 110 | 70-130 |
| Chlorobenzene | 16.67 | 17.35 | 104 | 70-130 |
| Ethylbenzene | 16.67 | 16.45 | 99 | 70-130 |
| m,p-Xylenes | 33.33 | 32.86 | 99 | 70-130 |
| o-Xylene | 16.67 | 16.29 | 98 | 70-130 |
| Styrene | 16.67 | 19.41 | 116 | 70-130 |
| Bromoform | 16.67 | 18.57 | 111 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 16.67 | 16.54 | 99 | 70-130 |
| 4-Ethyltoluene | 16.67 | 17.37 | 104 | 70-130 |
| 1,3,5-Trimethylbenzene | 16.67 | 15.64 | 94 | 70-130 |
| 1,2,4-Trimethylbenzene | 16.67 | 15.92 | 96 | 70-130 |
| 1,3-Dichlorobenzene | 16.67 | 16.07 | 96 | 70-130 |
| 1,4-Dichlorobenzene | 16.67 | 15.76 | 95 | 70-130 |
| Benzyl chloride | 16.67 | 16.94 | 102 | 70-130 |
| 1,2-Dichlorobenzene | 16.67 | 15.49 | 93 | 70-130 |
| 1,2,4-Trichlorobenzene | 16.67 | 12.42 | 75 | 70-130 |
| Hexachlorobutadiene | 16.67 | 12.65 | 76 | 70-130 |
| Naphthalene | 16.67 | 12.14 | 73 | 67-130 |

| Surrogate | %REC | Limits |
|--------------------|-------------|---------------|
| Bromofluorobenzene | 101 | 70-130 |

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204124 |
| Units (V): | ppbv | Analyzed: | 10/17/13 |
| Diln Fac: | 1.000 | | |

Type: BSD Lab ID: QC712238

| Analyte | Spiked | Result (V) | %REC | Limits | RPD | Lim |
|--------------------------|--------|------------|------|--------|-----|-----|
| Freon 12 | 16.67 | 17.79 | 107 | 70-130 | 4 | 20 |
| Freon 114 | 16.67 | 18.14 | 109 | 70-130 | 3 | 20 |
| Chloromethane | 16.67 | 19.31 | 116 | 70-130 | 4 | 24 |
| Vinyl Chloride | 16.67 | 18.04 | 108 | 70-130 | 2 | 24 |
| 1,3-Butadiene | 16.67 | 18.02 | 108 | 70-130 | 5 | 22 |
| Bromomethane | 16.67 | 19.28 | 116 | 70-130 | 2 | 20 |
| Chloroethane | 16.67 | 20.27 | 122 | 70-130 | 0 | 20 |
| Trichlorofluoromethane | 16.67 | 17.92 | 108 | 70-130 | 4 | 21 |
| Acrolein | 16.67 | 18.10 | 109 | 61-130 | 5 | 36 |
| 1,1-Dichloroethene | 16.67 | 20.66 | 124 | 70-130 | 4 | 20 |
| Freon 113 | 16.67 | 17.61 | 106 | 70-130 | 2 | 24 |
| Acetone | 16.67 | 17.02 | 102 | 70-130 | 0 | 21 |
| Carbon Disulfide | 16.67 | 17.73 | 106 | 70-130 | 2 | 21 |
| Methylene Chloride | 16.67 | 16.13 | 97 | 70-130 | 5 | 24 |
| trans-1,2-Dichloroethene | 16.67 | 18.47 | 111 | 70-130 | 3 | 20 |
| MTBE | 16.67 | 18.55 | 111 | 70-130 | 2 | 20 |
| n-Hexane | 16.67 | 17.79 | 107 | 70-130 | 1 | 20 |
| 1,1-Dichloroethane | 16.67 | 19.07 | 114 | 70-130 | 1 | 20 |
| Vinyl Acetate | 16.67 | 19.87 | 119 | 70-130 | 2 | 21 |
| cis-1,2-Dichloroethene | 16.67 | 17.97 | 108 | 70-130 | 1 | 20 |
| 2-Butanone | 16.67 | 18.22 | 109 | 70-130 | 2 | 20 |
| Ethyl Acetate | 16.67 | 17.58 | 105 | 70-130 | 4 | 22 |
| Tetrahydrofuran | 16.67 | 16.09 | 97 | 70-130 | 1 | 20 |
| Chloroform | 16.67 | 17.35 | 104 | 70-130 | 4 | 21 |
| 1,1,1-Trichloroethane | 16.67 | 18.20 | 109 | 70-130 | 1 | 21 |
| Cyclohexane | 16.67 | 19.36 | 116 | 70-130 | 1 | 20 |
| Carbon Tetrachloride | 16.67 | 17.25 | 103 | 70-130 | 0 | 20 |
| Benzene | 16.67 | 18.49 | 111 | 70-130 | 1 | 20 |
| 1,2-Dichloroethane | 16.67 | 19.51 | 117 | 70-130 | 1 | 20 |
| n-Heptane | 16.67 | 18.85 | 113 | 70-130 | 2 | 20 |
| Trichloroethene | 16.67 | 18.31 | 110 | 70-130 | 1 | 20 |
| 1,2-Dichloropropane | 16.67 | 19.41 | 116 | 70-130 | 1 | 20 |
| Bromodichloromethane | 16.67 | 18.44 | 111 | 70-130 | 2 | 20 |

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204124 |
| Units (V): | ppbv | Analyzed: | 10/17/13 |
| Diln Fac: | 1.000 | | |

| Analyte | Spiked | Result (V) | %REC | Limits | RPD | Lim |
|---------------------------|--------|------------|------|--------|------|-----|
| cis-1,3-Dichloropropene | 16.67 | 19.33 | 116 | 70-130 | 0 | 20 |
| 4-Methyl-2-Pentanone | 16.67 | 18.76 | 113 | 70-130 | 0 | 20 |
| Toluene | 16.67 | 17.28 | 104 | 70-130 | 2 | 23 |
| trans-1,3-Dichloropropene | 16.67 | 19.64 | 118 | 70-130 | 3 | 20 |
| 1,1,2-Trichloroethane | 16.67 | 17.09 | 103 | 70-130 | 6 | 20 |
| Tetrachloroethene | 16.67 | 17.27 | 104 | 70-130 | 2 | 20 |
| 2-Hexanone | 16.67 | 18.11 | 109 | 70-130 | 3 | 20 |
| Dibromochloromethane | 16.67 | 17.57 | 105 | 70-130 | 3 | 20 |
| 1,2-Dibromoethane | 16.67 | 17.57 | 105 | 70-130 | 4 | 20 |
| Chlorobenzene | 16.67 | 16.68 | 100 | 70-130 | 4 | 21 |
| Ethylbenzene | 16.67 | 15.99 | 96 | 70-130 | 3 | 20 |
| m,p-Xylenes | 33.33 | 31.34 | 94 | 70-130 | 5 | 20 |
| o-Xylene | 16.67 | 16.04 | 96 | 70-130 | 2 | 20 |
| Styrene | 16.67 | 18.58 | 111 | 70-130 | 4 | 22 |
| Bromoform | 16.67 | 17.56 | 105 | 70-130 | 6 | 20 |
| 1,1,2,2-Tetrachloroethane | 16.67 | 16.29 | 98 | 70-130 | 2 | 24 |
| 4-Ethyltoluene | 16.67 | 16.28 | 98 | 70-130 | 6 | 22 |
| 1,3,5-Trimethylbenzene | 16.67 | 15.37 | 92 | 70-130 | 2 | 22 |
| 1,2,4-Trimethylbenzene | 16.67 | 15.48 | 93 | 70-130 | 3 | 23 |
| 1,3-Dichlorobenzene | 16.67 | 15.54 | 93 | 70-130 | 3 | 21 |
| 1,4-Dichlorobenzene | 16.67 | 15.20 | 91 | 70-130 | 4 | 22 |
| Benzyl chloride | 16.67 | 16.08 | 96 | 70-130 | 5 | 21 |
| 1,2-Dichlorobenzene | 16.67 | 15.04 | 90 | 70-130 | 3 | 22 |
| 1,2,4-Trichlorobenzene | 16.67 | 15.81 | 95 | 70-130 | 24 | 24 |
| Hexachlorobutadiene | 16.67 | 13.27 | 80 | 70-130 | 5 | 25 |
| Naphthalene | 16.67 | 16.12 | 97 | 67-130 | 28 * | 24 |

| Surrogate | %REC | Limits |
|--------------------|------|--------|
| Bromofluorobenzene | 102 | 70-130 |

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | | | |
|---------------------------------|-------------------------------------|------------|--------------------------------|--|--|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro | | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD | | |
| Project#: | 2555 | Analysis: | EPA TO-15 | | |
| Type: | BLANK | Units (M): | ug/m3 | | |
| Lab ID: | QC712239 | Diln Fac: | 1.000 | | |
| Matrix: | Air | Batch#: | 204124 | | |
| Units (V): | ppbv | Analyzed: | 10/17/13 | | |

| Analyte | Result (V) | RL | Result (M) | RL |
|--------------------------|------------|------|------------|-----|
| Freon 12 | ND | 0.50 | ND | 2.5 |
| Freon 114 | ND | 0.50 | ND | 3.5 |
| Chloromethane | ND | 0.50 | ND | 1.0 |
| Vinyl Chloride | ND | 0.50 | ND | 1.3 |
| 1,3-Butadiene | ND | 0.50 | ND | 1.1 |
| Bromomethane | ND | 0.50 | ND | 1.9 |
| Chloroethane | ND | 0.50 | ND | 1.3 |
| Trichlorofluoromethane | ND | 0.50 | ND | 2.8 |
| Acrolein | ND | 2.0 | ND | 4.6 |
| 1,1-Dichloroethene | ND | 0.50 | ND | 2.0 |
| Freon 113 | ND | 0.50 | ND | 3.8 |
| Acetone | ND | 2.0 | ND | 4.8 |
| Carbon Disulfide | ND | 0.50 | ND | 1.6 |
| Methylene Chloride | ND | 0.50 | ND | 1.7 |
| trans-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 |
| MTBE | ND | 0.50 | ND | 1.8 |
| n-Hexane | ND | 0.50 | ND | 1.8 |
| 1,1-Dichloroethane | ND | 0.50 | ND | 2.0 |
| Vinyl Acetate | ND | 0.50 | ND | 1.8 |
| cis-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 |
| 2-Butanone | ND | 0.50 | ND | 1.5 |
| Ethyl Acetate | ND | 0.50 | ND | 1.8 |
| Tetrahydrofuran | ND | 0.50 | ND | 1.5 |
| Chloroform | ND | 0.50 | ND | 2.4 |
| 1,1,1-Trichloroethane | ND | 0.50 | ND | 2.7 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| Carbon Tetrachloride | ND | 0.50 | ND | 3.1 |
| Benzene | ND | 0.50 | ND | 1.6 |
| 1,2-Dichloroethane | ND | 0.50 | ND | 2.0 |
| n-Heptane | ND | 0.50 | ND | 2.0 |
| Trichloroethene | ND | 0.50 | ND | 2.7 |
| 1,2-Dichloropropane | ND | 0.50 | ND | 2.3 |
| Bromodichloromethane | ND | 0.50 | ND | 3.4 |
| cis-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 |
| 4-Methyl-2-Pentanone | ND | 0.50 | ND | 2.0 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | | |
|---------------------------------|-------------------------------------|------------|--------------------------------|--|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD | |
| Project#: | 2555 | Analysis: | EPA TO-15 | |
| Type: | BLANK | Units (M): | ug/m3 | |
| Lab ID: | QC712239 | Diln Fac: | 1.000 | |
| Matrix: | Air | Batch#: | 204124 | |
| Units (V): | ppbv | Analyzed: | 10/17/13 | |

| Analyte | Result (V) | RL | Result (M) | RL |
|---------------------------|------------|------|------------|-----|
| Toluene | ND | 0.50 | ND | 1.9 |
| trans-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 |
| 1,1,2-Trichloroethane | ND | 0.50 | ND | 2.7 |
| Tetrachloroethene | ND | 0.50 | ND | 3.4 |
| 2-Hexanone | ND | 0.50 | ND | 2.0 |
| Dibromochloromethane | ND | 0.50 | ND | 4.3 |
| 1,2-Dibromoethane | ND | 0.50 | ND | 3.8 |
| Chlorobenzene | ND | 0.50 | ND | 2.3 |
| Ethylbenzene | ND | 0.50 | ND | 2.2 |
| m,p-Xylenes | ND | 0.50 | ND | 2.2 |
| o-Xylene | ND | 0.50 | ND | 2.2 |
| Styrene | ND | 0.50 | ND | 2.1 |
| Bromoform | ND | 0.50 | ND | 5.2 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 3.4 |
| 4-Ethyltoluene | ND | 0.50 | ND | 2.5 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 2.5 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 2.5 |
| 1,3-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| 1,4-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| Benzyl chloride | ND | 0.50 | ND | 2.6 |
| 1,2-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 3.7 |
| Hexachlorobutadiene | ND | 0.50 | ND | 5.3 |
| Naphthalene | ND | 2.0 | ND | 10 |

| Surrogate | %REC | Limits |
|--------------------|------|--------|
| Bromofluorobenzene | 105 | 70-130 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|--------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204171 |
| Units (V): | ppbv | Analyzed: | 10/18/13 |
| Diln Fac: | 1.000 | | |

Type: BS Lab ID: QC712435

| Analyte | Spiked | Result (V) | %REC | Limits |
|--------------------------|--------|------------|------|--------|
| Freon 12 | 16.67 | 18.16 | 109 | 70-130 |
| Freon 114 | 16.67 | 18.22 | 109 | 70-130 |
| Chloromethane | 16.67 | 19.91 | 119 | 70-130 |
| Vinyl Chloride | 16.67 | 18.23 | 109 | 70-130 |
| 1,3-Butadiene | 16.67 | 18.61 | 112 | 70-130 |
| Bromomethane | 16.67 | 19.32 | 116 | 70-130 |
| Chloroethane | 16.67 | 20.49 | 123 | 70-130 |
| Trichlorofluoromethane | 16.67 | 18.11 | 109 | 70-130 |
| Acrolein | 16.67 | 18.69 | 112 | 61-130 |
| 1,1-Dichloroethene | 16.67 | 20.95 | 126 | 70-130 |
| Freon 113 | 16.67 | 17.94 | 108 | 70-130 |
| Acetone | 16.67 | 18.00 | 108 | 70-130 |
| Carbon Disulfide | 16.67 | 17.87 | 107 | 70-130 |
| Methylene Chloride | 16.67 | 16.75 | 101 | 70-130 |
| trans-1,2-Dichloroethene | 16.67 | 18.98 | 114 | 70-130 |
| MTBE | 16.67 | 18.72 | 112 | 70-130 |
| n-Hexane | 16.67 | 18.13 | 109 | 70-130 |
| 1,1-Dichloroethane | 16.67 | 19.42 | 117 | 70-130 |
| Vinyl Acetate | 16.67 | 20.40 | 122 | 70-130 |
| cis-1,2-Dichloroethene | 16.67 | 18.26 | 110 | 70-130 |
| 2-Butanone | 16.67 | 18.70 | 112 | 70-130 |
| Ethyl Acetate | 16.67 | 17.77 | 107 | 70-130 |
| Tetrahydrofuran | 16.67 | 15.88 | 95 | 70-130 |
| Chloroform | 16.67 | 17.79 | 107 | 70-130 |
| 1,1,1-Trichloroethane | 16.67 | 18.52 | 111 | 70-130 |
| Cyclohexane | 16.67 | 19.45 | 117 | 70-130 |
| Carbon Tetrachloride | 16.67 | 17.42 | 105 | 70-130 |
| Benzene | 16.67 | 18.66 | 112 | 70-130 |
| 1,2-Dichloroethane | 16.67 | 19.29 | 116 | 70-130 |
| n-Heptane | 16.67 | 19.00 | 114 | 70-130 |
| Trichloroethene | 16.67 | 18.19 | 109 | 70-130 |
| 1,2-Dichloropropane | 16.67 | 19.30 | 116 | 70-130 |
| Bromodichloromethane | 16.67 | 18.41 | 110 | 70-130 |
| cis-1,3-Dichloropropene | 16.67 | 19.41 | 116 | 70-130 |

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204171 |
| Units (V): | ppbv | Analyzed: | 10/18/13 |
| Diln Fac: | 1.000 | | |

| Analyte | Spiked | Result (V) | %REC | Limits |
|---------------------------|---------------|-------------------|-------------|---------------|
| 4-Methyl-2-Pentanone | 16.67 | 19.13 | 115 | 70-130 |
| Toluene | 16.67 | 16.75 | 101 | 70-130 |
| trans-1,3-Dichloropropene | 16.67 | 19.94 | 120 | 70-130 |
| 1,1,2-Trichloroethane | 16.67 | 17.27 | 104 | 70-130 |
| Tetrachloroethene | 16.67 | 16.78 | 101 | 70-130 |
| 2-Hexanone | 16.67 | 17.92 | 108 | 70-130 |
| Dibromochloromethane | 16.67 | 17.40 | 104 | 70-130 |
| 1,2-Dibromoethane | 16.67 | 17.62 | 106 | 70-130 |
| Chlorobenzene | 16.67 | 16.36 | 98 | 70-130 |
| Ethylbenzene | 16.67 | 15.77 | 95 | 70-130 |
| m,p-Xylenes | 33.33 | 30.98 | 93 | 70-130 |
| o-Xylene | 16.67 | 16.15 | 97 | 70-130 |
| Styrene | 16.67 | 18.38 | 110 | 70-130 |
| Bromoform | 16.67 | 17.07 | 102 | 70-130 |
| 1,1,2,2-Tetrachloroethane | 16.67 | 15.72 | 94 | 70-130 |
| 4-Ethyltoluene | 16.67 | 16.44 | 99 | 70-130 |
| 1,3,5-Trimethylbenzene | 16.67 | 15.28 | 92 | 70-130 |
| 1,2,4-Trimethylbenzene | 16.67 | 15.18 | 91 | 70-130 |
| 1,3-Dichlorobenzene | 16.67 | 15.36 | 92 | 70-130 |
| 1,4-Dichlorobenzene | 16.67 | 14.82 | 89 | 70-130 |
| Benzyl chloride | 16.67 | 16.09 | 97 | 70-130 |
| 1,2-Dichlorobenzene | 16.67 | 14.76 | 89 | 70-130 |
| 1,2,4-Trichlorobenzene | 16.67 | 14.94 | 90 | 70-130 |
| Hexachlorobutadiene | 16.67 | 12.96 | 78 | 70-130 |
| Naphthalene | 16.67 | 15.16 | 91 | 67-130 |

| Surrogate | %REC | Limits |
|--------------------|-------------|---------------|
| Bromofluorobenzene | 106 | 70-130 |

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|--------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204171 |
| Units (V): | ppbv | Analyzed: | 10/18/13 |
| Diln Fac: | 1.000 | | |

Type: BSD Lab ID: QC712436

| Analyte | Spiked | Result (V) | %REC | Limits | RPD | Lim |
|--------------------------|--------|------------|------|--------|-----|-----|
| Freon 12 | 16.67 | 18.32 | 110 | 70-130 | 1 | 20 |
| Freon 114 | 16.67 | 18.82 | 113 | 70-130 | 3 | 20 |
| Chloromethane | 16.67 | 19.72 | 118 | 70-130 | 1 | 24 |
| Vinyl Chloride | 16.67 | 18.32 | 110 | 70-130 | 0 | 24 |
| 1,3-Butadiene | 16.67 | 19.00 | 114 | 70-130 | 2 | 22 |
| Bromomethane | 16.67 | 19.20 | 115 | 70-130 | 1 | 20 |
| Chloroethane | 16.67 | 19.86 | 119 | 70-130 | 3 | 20 |
| Trichlorofluoromethane | 16.67 | 18.58 | 111 | 70-130 | 3 | 21 |
| Acrolein | 16.67 | 17.47 | 105 | 61-130 | 7 | 36 |
| 1,1-Dichloroethene | 16.67 | 21.02 | 126 | 70-130 | 0 | 20 |
| Freon 113 | 16.67 | 17.75 | 106 | 70-130 | 1 | 24 |
| Acetone | 16.67 | 17.95 | 108 | 70-130 | 0 | 21 |
| Carbon Disulfide | 16.67 | 18.11 | 109 | 70-130 | 1 | 21 |
| Methylene Chloride | 16.67 | 16.75 | 100 | 70-130 | 0 | 24 |
| trans-1,2-Dichloroethene | 16.67 | 18.84 | 113 | 70-130 | 1 | 20 |
| MTBE | 16.67 | 18.39 | 110 | 70-130 | 2 | 20 |
| n-Hexane | 16.67 | 18.34 | 110 | 70-130 | 1 | 20 |
| 1,1-Dichloroethane | 16.67 | 19.33 | 116 | 70-130 | 0 | 20 |
| Vinyl Acetate | 16.67 | 20.95 | 126 | 70-130 | 3 | 21 |
| cis-1,2-Dichloroethene | 16.67 | 18.53 | 111 | 70-130 | 1 | 20 |
| 2-Butanone | 16.67 | 18.62 | 112 | 70-130 | 0 | 20 |
| Ethyl Acetate | 16.67 | 18.04 | 108 | 70-130 | 1 | 22 |
| Tetrahydrofuran | 16.67 | 16.06 | 96 | 70-130 | 1 | 20 |
| Chloroform | 16.67 | 17.71 | 106 | 70-130 | 0 | 21 |
| 1,1,1-Trichloroethane | 16.67 | 18.05 | 108 | 70-130 | 3 | 21 |
| Cyclohexane | 16.67 | 19.84 | 119 | 70-130 | 2 | 20 |
| Carbon Tetrachloride | 16.67 | 17.10 | 103 | 70-130 | 2 | 20 |
| Benzene | 16.67 | 18.52 | 111 | 70-130 | 1 | 20 |
| 1,2-Dichloroethane | 16.67 | 19.55 | 117 | 70-130 | 1 | 20 |
| n-Heptane | 16.67 | 18.81 | 113 | 70-130 | 1 | 20 |
| Trichloroethene | 16.67 | 18.59 | 112 | 70-130 | 2 | 20 |
| 1,2-Dichloropropane | 16.67 | 19.57 | 117 | 70-130 | 1 | 20 |
| Bromodichloromethane | 16.67 | 18.86 | 113 | 70-130 | 2 | 20 |
| cis-1,3-Dichloropropene | 16.67 | 19.53 | 117 | 70-130 | 1 | 20 |

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Matrix: | Air | Batch#: | 204171 |
| Units (V): | ppbv | Analyzed: | 10/18/13 |
| Diln Fac: | 1.000 | | |

| Analyte | Spiked | Result (V) | %REC | Limits | RPD | Lim |
|---------------------------|--------|------------|------|--------|-----|-----|
| 4-Methyl-2-Pentanone | 16.67 | 18.73 | 112 | 70-130 | 2 | 20 |
| Toluene | 16.67 | 16.72 | 100 | 70-130 | 0 | 23 |
| trans-1,3-Dichloropropene | 16.67 | 19.71 | 118 | 70-130 | 1 | 20 |
| 1,1,2-Trichloroethane | 16.67 | 17.70 | 106 | 70-130 | 2 | 20 |
| Tetrachloroethene | 16.67 | 17.44 | 105 | 70-130 | 4 | 20 |
| 2-Hexanone | 16.67 | 18.27 | 110 | 70-130 | 2 | 20 |
| Dibromochloromethane | 16.67 | 17.74 | 106 | 70-130 | 2 | 20 |
| 1,2-Dibromoethane | 16.67 | 17.81 | 107 | 70-130 | 1 | 20 |
| Chlorobenzene | 16.67 | 16.78 | 101 | 70-130 | 2 | 21 |
| Ethylbenzene | 16.67 | 16.23 | 97 | 70-130 | 3 | 20 |
| m,p-Xylenes | 33.33 | 31.28 | 94 | 70-130 | 1 | 20 |
| o-Xylene | 16.67 | 15.98 | 96 | 70-130 | 1 | 20 |
| Styrene | 16.67 | 19.04 | 114 | 70-130 | 4 | 22 |
| Bromoform | 16.67 | 17.77 | 107 | 70-130 | 4 | 20 |
| 1,1,2,2-Tetrachloroethane | 16.67 | 16.59 | 100 | 70-130 | 5 | 24 |
| 4-Ethyltoluene | 16.67 | 16.17 | 97 | 70-130 | 2 | 22 |
| 1,3,5-Trimethylbenzene | 16.67 | 15.27 | 92 | 70-130 | 0 | 22 |
| 1,2,4-Trimethylbenzene | 16.67 | 15.77 | 95 | 70-130 | 4 | 23 |
| 1,3-Dichlorobenzene | 16.67 | 15.49 | 93 | 70-130 | 1 | 21 |
| 1,4-Dichlorobenzene | 16.67 | 15.55 | 93 | 70-130 | 5 | 22 |
| Benzyl chloride | 16.67 | 16.14 | 97 | 70-130 | 0 | 21 |
| 1,2-Dichlorobenzene | 16.67 | 15.61 | 94 | 70-130 | 6 | 22 |
| 1,2,4-Trichlorobenzene | 16.67 | 15.55 | 93 | 70-130 | 4 | 24 |
| Hexachlorobutadiene | 16.67 | 13.38 | 80 | 70-130 | 3 | 25 |
| Naphthalene | 16.67 | 15.63 | 94 | 67-130 | 3 | 24 |

| Surrogate | %REC | Limits |
|--------------------|------|--------|
| Bromofluorobenzene | 105 | 70-130 |

RPD= Relative Percent Difference

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | |
|---------------------------------|-------------------------------------|------------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-15 |
| Type: | BLANK | Units (M): | ug/m3 |
| Lab ID: | QC712437 | Diln Fac: | 1.000 |
| Matrix: | Air | Batch#: | 204171 |
| Units (V): | ppbv | Analyzed: | 10/18/13 |

| Analyte | Result (V) | RL | Result (M) | RL |
|--------------------------|------------|------|------------|-----|
| Freon 12 | ND | 0.50 | ND | 2.5 |
| Freon 114 | ND | 0.50 | ND | 3.5 |
| Chloromethane | ND | 0.50 | ND | 1.0 |
| Vinyl Chloride | ND | 0.50 | ND | 1.3 |
| 1,3-Butadiene | ND | 0.50 | ND | 1.1 |
| Bromomethane | ND | 0.50 | ND | 1.9 |
| Chloroethane | ND | 0.50 | ND | 1.3 |
| Trichlorofluoromethane | ND | 0.50 | ND | 2.8 |
| Acrolein | ND | 2.0 | ND | 4.6 |
| 1,1-Dichloroethene | ND | 0.50 | ND | 2.0 |
| Freon 113 | ND | 0.50 | ND | 3.8 |
| Acetone | ND | 2.0 | ND | 4.8 |
| Carbon Disulfide | ND | 0.50 | ND | 1.6 |
| Methylene Chloride | ND | 0.50 | ND | 1.7 |
| trans-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 |
| MTBE | ND | 0.50 | ND | 1.8 |
| n-Hexane | ND | 0.50 | ND | 1.8 |
| 1,1-Dichloroethane | ND | 0.50 | ND | 2.0 |
| Vinyl Acetate | ND | 0.50 | ND | 1.8 |
| cis-1,2-Dichloroethene | ND | 0.50 | ND | 2.0 |
| 2-Butanone | ND | 0.50 | ND | 1.5 |
| Ethyl Acetate | ND | 0.50 | ND | 1.8 |
| Tetrahydrofuran | ND | 0.50 | ND | 1.5 |
| Chloroform | ND | 0.50 | ND | 2.4 |
| 1,1,1-Trichloroethane | ND | 0.50 | ND | 2.7 |
| Cyclohexane | ND | 0.50 | ND | 1.7 |
| Carbon Tetrachloride | ND | 0.50 | ND | 3.1 |
| Benzene | ND | 0.50 | ND | 1.6 |
| 1,2-Dichloroethane | ND | 0.50 | ND | 2.0 |
| n-Heptane | ND | 0.50 | ND | 2.0 |
| Trichloroethene | ND | 0.50 | ND | 2.7 |
| 1,2-Dichloropropane | ND | 0.50 | ND | 2.3 |
| Bromodichloromethane | ND | 0.50 | ND | 3.4 |
| cis-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 |
| 4-Methyl-2-Pentanone | ND | 0.50 | ND | 2.0 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Batch QC Report

| Volatile Organics in Air | | | | |
|---------------------------------|-------------------------------------|------------|--------------------------------|--|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro | |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD | |
| Project#: | 2555 | Analysis: | EPA TO-15 | |
| Type: | BLANK | Units (M): | ug/m3 | |
| Lab ID: | QC712437 | Diln Fac: | 1.000 | |
| Matrix: | Air | Batch#: | 204171 | |
| Units (V): | ppbv | Analyzed: | 10/18/13 | |

| Analyte | Result (V) | RL | Result (M) | RL |
|---------------------------|------------|------|------------|-----|
| Toluene | ND | 0.50 | ND | 1.9 |
| trans-1,3-Dichloropropene | ND | 0.50 | ND | 2.3 |
| 1,1,2-Trichloroethane | ND | 0.50 | ND | 2.7 |
| Tetrachloroethene | ND | 0.50 | ND | 3.4 |
| 2-Hexanone | ND | 0.50 | ND | 2.0 |
| Dibromochloromethane | ND | 0.50 | ND | 4.3 |
| 1,2-Dibromoethane | ND | 0.50 | ND | 3.8 |
| Chlorobenzene | ND | 0.50 | ND | 2.3 |
| Ethylbenzene | ND | 0.50 | ND | 2.2 |
| m,p-Xylenes | ND | 0.50 | ND | 2.2 |
| o-Xylene | ND | 0.50 | ND | 2.2 |
| Styrene | ND | 0.50 | ND | 2.1 |
| Bromoform | ND | 0.50 | ND | 5.2 |
| 1,1,2,2-Tetrachloroethane | ND | 0.50 | ND | 3.4 |
| 4-Ethyltoluene | ND | 0.50 | ND | 2.5 |
| 1,3,5-Trimethylbenzene | ND | 0.50 | ND | 2.5 |
| 1,2,4-Trimethylbenzene | ND | 0.50 | ND | 2.5 |
| 1,3-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| 1,4-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| Benzyl chloride | ND | 0.50 | ND | 2.6 |
| 1,2-Dichlorobenzene | ND | 0.50 | ND | 3.0 |
| 1,2,4-Trichlorobenzene | ND | 0.50 | ND | 3.7 |
| Hexachlorobutadiene | ND | 0.50 | ND | 5.3 |
| Naphthalene | ND | 2.0 | ND | 10 |

| Surrogate | %REC | Limits |
|--------------------|------|--------|
| Bromofluorobenzene | 98 | 70-130 |

ND= Not Detected

RL= Reporting Limit

Result M= Result in mass units

Result V= Result in volume units

Aromatic / Petroleum Hydrocarbons in Air

| | |
|---------------------------------------------|------------------------------------------|
| Lab #: 249943 | Location: 15101 Freedom Ave. San Leandro |
| Client: SOMA Environmental Engineering Inc. | Prep: METHOD |
| Project#: 2555 | Analysis: EPA TO-3 |
| Analyte: Gasoline Range Organics C6-C12 | Batch#: 204153 |
| Matrix: Air | Sampled: 10/16/13 |
| Units (V): ppbv | Received: 10/16/13 |
| Units (M): ug/m3 | Analyzed: 10/17/13 |

| Field ID | Type | Lab ID | Result (V) | RL | MDL | Result (M) | RL | MDL | Diln Fac |
|----------|--------|------------|------------|-------|-----|------------|--------|-------|----------|
| EFF MPE | SAMPLE | 249943-001 | 140 | 25 | 5.6 | 570 | 100 | 23 | 1.000 |
| INF MPE | SAMPLE | 249943-002 | 270,000 | 2,500 | 560 | 1,100,000 | 10,000 | 2,300 | 100.0 |
| | BLANK | QC712353 | 9.5 J | 25 | 5.6 | 39 J | 100 | 23 | 1.000 |

J= Estimated value

RL= Reporting Limit

MDL= Method Detection Limit

Result M= Result in mass units

Result V= Result in volume units

Batch QC Report

Aromatic / Petroleum Hydrocarbons in Air

| | | | |
|------------|-------------------------------------|-----------|--------------------------------|
| Lab #: | 249943 | Location: | 15101 Freedom Ave. San Leandro |
| Client: | SOMA Environmental Engineering Inc. | Prep: | METHOD |
| Project#: | 2555 | Analysis: | EPA TO-3 |
| Analyte: | Gasoline Range Organics C6-C12 | Diln Fac: | 1.000 |
| Matrix: | Air | Batch#: | 204153 |
| Units (V): | ppbv | Analyzed: | 10/17/13 |

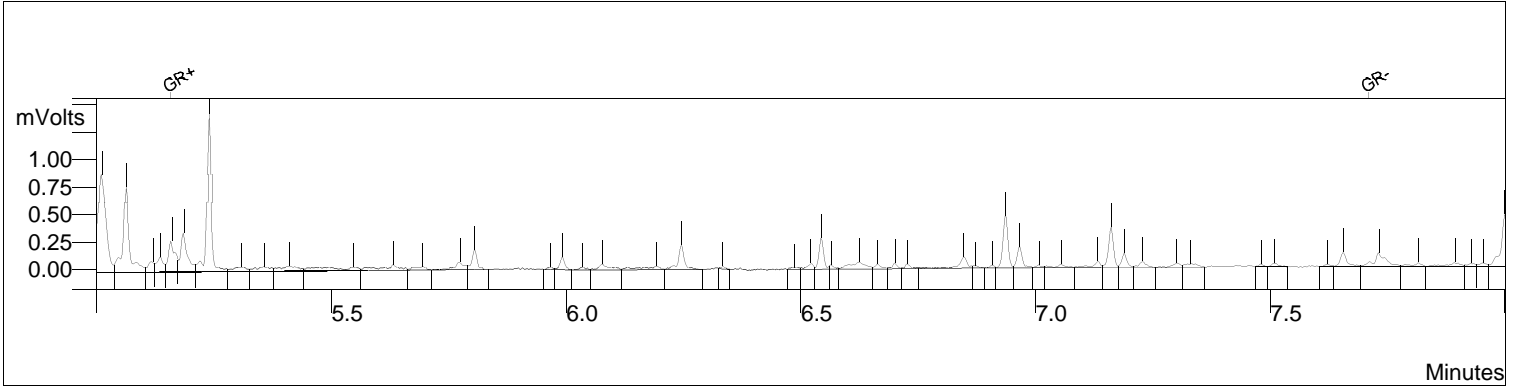
| Type | Lab ID | Spiked | Result (V) | %REC | Limits | RPD | Lim |
|------|----------|--------|------------|------|--------|-----|-----|
| BS | QC712351 | 2,100 | 2,219 | 106 | 70-130 | | |
| BSD | QC712352 | 2,100 | 2,161 | 103 | 70-130 | 3 | 25 |

RPD= Relative Percent Difference

Result V= Result in volume units

GRO by TO-3

Sample ID: 249943-001,204153
 Data File: c:\varianws\data\101713\290_004.run
 Sample List: c:\varianws\101713.smp
 Method: c:\varianws\to3_081811.mth
 Acquisition Date: 10/17/2013 14:19:59
 Calculation Date: 10/17/2013 14:32:01
 Instrument ID: MSAIR03 Operator: TO-3
 Injection Notes: 1x
 Multiplier: 1.000 Divisor: 1.000



Channel: Front = FID RESULTS

| # | RT (min) | Peak Name | Area | Result (ppbv) |
|---------------|----------|-----------|-------------|----------------|
| 1 | 6.432 | GRO:6-12 | 5218 | 140.265 |
| Totals | | | 5218 | 140.265 |

Integration Parameters

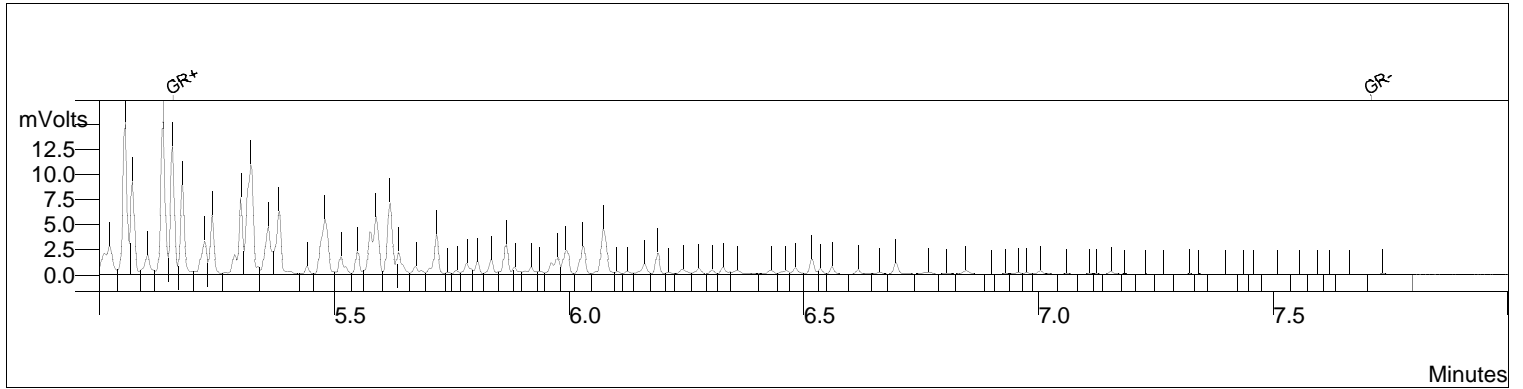
Initial Tangent %: 0
 Initial Peak Width (sec): 4
 Initial Peak Reject Value: 50.000
 Initial S/N Ratio: 3

Data Handling Time Events

| Time (min) | Event |
|------------|--------|
| 0.009 | II on |
| 4.801 | II off |
| 5.157 | GR on |
| 7.708 | GR off |

GRO by TO-3

Sample ID: 249943-002,204153
 Data File: c:\varianws\data\101713\290_007.run
 Sample List: c:\varianws\101713.smp
 Method: c:\varianws\to3_081811.mth
 Acquisition Date: 10/17/2013 15:55:26
 Calculation Date: 10/17/2013 16:07:27
 Instrument ID: MSAIR03 Operator: TO-3
 Injection Notes: 100x
 Multiplier: 1.000 Divisor: 1.000



Channel: Front = FID RESULTS

| # | RT (min) | Peak Name | Area | Result (ppbv) |
|---------------|----------|-----------|---------------|-----------------|
| 1 | 6.432 | GRO:6-12 | 100984 | 2714.365 |
| Totals | | | 100984 | 2714.365 |

Integration Parameters

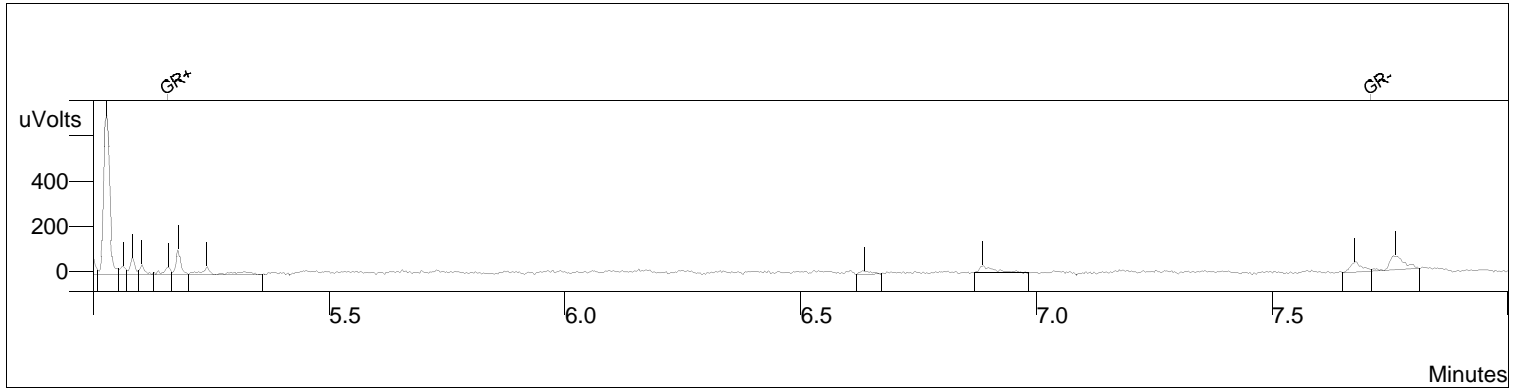
Initial Tangent %: 0
 Initial Peak Width (sec): 4
 Initial Peak Reject Value: 50.000
 Initial S/N Ratio: 3

Data Handling Time Events

| Time (min) | Event |
|------------|------------|
| 0.009 | II on |
| 4.801 | II off |
| 5.157 | GR on |
| 7.708 | GR off |
| 8.815 | WI 8.0 sec |
| 9.507 | WI 4.0 sec |

GRO by TO-3

Sample ID: mb,qc712353,204153
 Data File: c:\varianws\data\101713\290_003.run
 Sample List: c:\varianws\101713.smp
 Method: c:\varianws\to3_081811.mth
 Acquisition Date: 10/17/2013 14:04:21
 Calculation Date: 10/17/2013 14:16:23
 Instrument ID: MSAIR03 Operator: TO-3
 Injection Notes: 1x
 Multiplier: 1.000 Divisor: 1.000



Channel: Front = FID RESULTS

| # | RT (min) | Peak Name | Area | Result (ppbv) |
|---------------|----------|-----------|------------|---------------|
| 1 | 6.432 | GRO:6-12 | 354 | 9.508 |
| Totals | | | 354 | 9.508 |

Integration Parameters

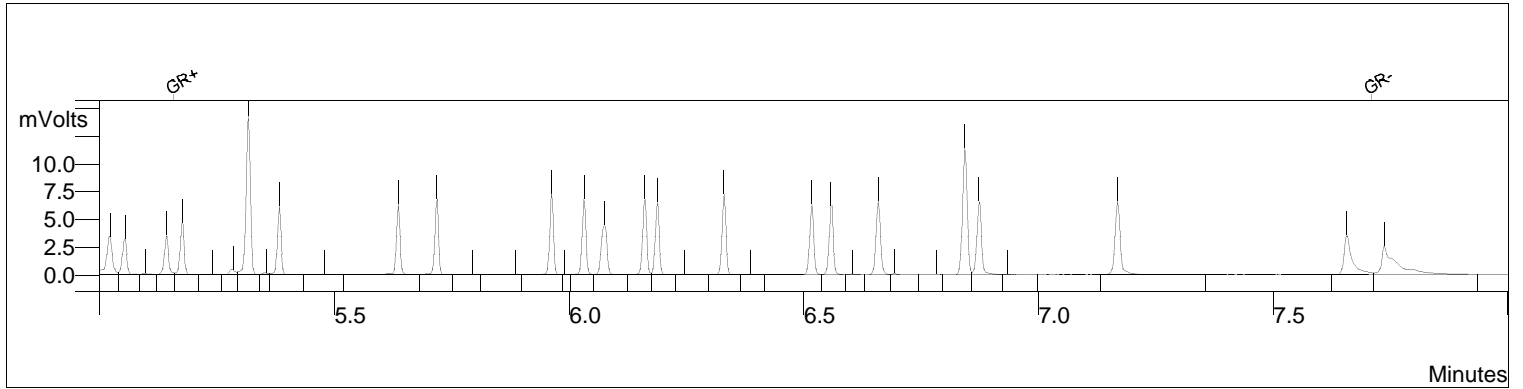
Initial Tangent %: 0
 Initial Peak Width (sec): 4
 Initial Peak Reject Value: 50.000
 Initial S/N Ratio: 3

Data Handling Time Events

| Time (min) | Event |
|------------|--------|
| 0.009 | II on |
| 4.801 | II off |
| 5.157 | GR on |
| 7.708 | GR off |

GRO by TO-3

Sample ID: ccv/bs,qc712351
 Data File: c:\varianws\data\101713\290_001.run
 Sample List: c:\varianws\101713.smp
 Method: c:\varianws\to3_081811.mth
 Acquisition Date: 10/17/2013 13:32:53
 Calculation Date: 10/17/2013 13:44:55
 Instrument ID: MSAIR03 Operator: TO-3
 Injection Notes: 204153,s23398,1x
 Multiplier: 1.000 Divisor: 1.000



Channel: Front = FID RESULTS

| # | RT (min) | Peak Name | Area | Result (ppbv) |
|---------------|----------|-----------|--------------|-----------------|
| 1 | 6.432 | GRO:6-12 | 82548 | 2218.810 |
| Totals | | | 82548 | 2218.810 |

Integration Parameters

Initial Tangent %: 0
 Initial Peak Width (sec): 4
 Initial Peak Reject Value: 50.000
 Initial S/N Ratio: 3

Data Handling Time Events

| Time (min) | Event |
|------------|--------|
| 0.009 | II on |
| 4.801 | II off |
| 5.157 | GR on |
| 7.708 | GR off |