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September 13, 2013

Mr. Martin Musonge
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, California 94612

Subject: **File No. 01-0098 (MYM)**
Site Located at 2844 Mountain Boulevard, Oakland, California

Dear Mr. Musonge:

Enclosed for your review is SOMA's "Additional Investigation and Monitoring Wells Replacement Report" for the subject property. It has been uploaded to the State's GeoTracker database and the Alameda County's FTP site.

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

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure

cc: Mr. Tejindar Singh w/enclosure



Additional Investigation and Monitoring Wells Replacement Report

**2844 Mountain Boulevard
Oakland, California**

September 13, 2013

Project 5082

Prepared for:

**Mr. Tejindar P. Singh
6400 Dublin Blvd.
Dublin, California**



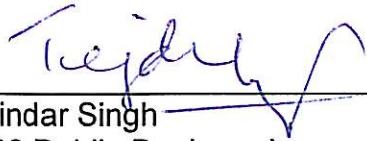
ENVIRONMENTAL ENGINEERING, INC.

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PERJURY STATEMENT

Site Location: 2844 Mountain Boulevard, Oakland, California

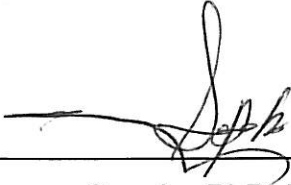
"I declare under penalty of perjury, that the information and/or recommendations contained in the attached document or report is true and correct to the best of my knowledge".



Tejinder Singh
6400 Dublin Boulevard
Dublin, California 94568
Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf of Mr. Tejindar P. Singh for the site located at 2844 Mountain Blvd., Oakland, California. The report was prepared in accordance with SOMA's workplan dated December 26, 2012, and in compliance with San Francisco Bay Regional Water Quality Control Board correspondence dated April 3, 2013, granting approval of the workplan.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist



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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Tejindar P. Singh for the site located at 2844 Mountain Blvd., Oakland, California. The report was prepared in accordance with SOMA's workplan dated December 26, 2012 and in compliance with correspondence from San Francisco Bay Regional Water Quality Control Board (SFB-RWQCB) dated April 3, 2013, granting approval of the workplan. This report documents results of additional investigation and monitoring well replacement.

The subject property is located in Alameda County, California. Figure 1 shows the location of the site and vicinity. The site is located on the eastern corner of the intersection of Mountain Boulevard and Werner Court in a commercial/residential area (Figure 2). The Warren Freeway is adjacent to Mountain Boulevard, and lies approximately 50 feet southwest of the site. The property was a historical retail gasoline station, and is currently non-operational. A bookstore has been operating in the site building since May 2013. The historical underground storage tanks (USTs), installed in 1994, contained various grades of unleaded gasoline and diesel and had individual storage capacities of 3,000, 4,000, and 10,000 gallons. In August 2011, under SOMA's oversight, the two remaining USTs were removed and disposed of off-site. UST removal activities are documented in SOMA's report dated September 14, 2011. Site history is summarized in Appendix A.

1.1 Geologic and Hydrogeologic Conditions

The site is located in the eastern portion of the greater Oakland area approximately 6 miles inland from the San Francisco Bay. The site and the surrounding area is approximately one quarter mile southwest of Palo Seco Creek and is located on a slight gradient that slopes towards the southwest (Figure 1). Upper San Leandro reservoir is located approximately 3.5 mile east of the site. According to the USGS 7.5 minute series quadrangle for the Oakland East area, the subject property is at an elevation of approximately 700 feet above mean sea level (msl).

The site lies east of the Alameda Bay Plain hydrologic subarea of the East San Francisco Bay Hydrologic study area. Small lenses of perched groundwater may lie beneath portions of this hydrologic area. Regional groundwater flow direction is expected to be southwesterly toward the Bay.

According to the Geologic Map of the San Francisco-San Jose Quadrangle (1990, Map 5A, California Division of Mines & Geology), the site is situated within the active Hayward Fault Zone (Figure 1). The fault is part of a northwest trending zone locally consisting of "slivers" or small blocks of bedrock. The rocks include Jurassic and Cretaceous-age ultramafic crystalline rocks and rhyolite of

the Coast Range Ophiolite, marine sandstone and shale, and Franciscan complex rocks. The weathering of these rocks typically yields clayey soil.

According to the RSI Corrective Action Plan report, dated February 3, 1995, the saturated sediments beneath the site are primarily comprised of fine-grained materials which are not capable of transmitting significant amount water to the wells. According to the above referenced report, the maximum extraction rate for groundwater extraction was less than 0.32 gallons per minute. Reportedly, this low extraction rate is insufficient for effective groundwater treatment; no data in support of this statement was available for review.

According to historical site reports (1995), the nearest well utilized for beneficial use, is located approximately 2200 feet southwest from the site (4315 Lincoln Ave, Oakland, CA) and is installed to the total depth of 260 feet bgs (depth to water at 240 feet bgs); this well is utilized for irrigation. No updated sensitive receptor survey was conducted at this time since it was not within the scope of this workplan.

During the previous CPT/MIP investigation at least two water bearing zones (WBZs) were present beneath the site. All existing site wells are screened from 5 to 25 feet bgs in what was previously designated as Perched WBZ. During the CPT/MIP investigation, groundwater samples were also collected from approximately 48 feet bgs from a lower WBZ which was designated as First WBZ.

During the most recent investigation, while logging the soil from boring DPT-5, there was a section where "very moist to wet" soil was encountered at approximately 13 feet bgs. SOMA's field geologist left the boring open at 15 feet in order to see if enough water would come into the boring in order to sample. Water did come into the boring and the groundwater sample was called DPT-5W-1. Soil borings that were drilled during previous investigations had also been left open to see if water would accumulate at similar depths and no water came into those borings. During the previous investigation it was concluded that the shallow groundwater appears to be perched and somewhat discontinuous, so this shallow zone that was encountered is the perched and discontinuous zone.

2. SCOPE OF WORK

High levels of TPH-g and TPH-d were detected at approximately 10 feet below ground surface in soil borings SB-1 and SB-2, located southwest of the existing pump islands. In order to assess the impact to groundwater from the soil contamination found in this area and to evaluate the impact of the soil contamination located immediately southwest of the former pump islands, an additional investigation was performed. In addition, two groundwater monitoring wells were installed to replace the two wells decommissioned during the most recent remedial excavation.

Based on the SFB-RWQCB directive dated April 3, 2013, SOMA advanced two soil boreholes (DPT-5 and DPT-5W) in order to determine the extent of soil and groundwater contamination at the site and installed two monitoring wells.

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

- Task 1: Permit acquisition, Health and Safety Plan preparation, and subsurface utility clearance
- Task 2: Advancement of two soil borings
- Task 3: Monitoring well replacement installations
- Task 3: Well Development and Wells Survey
- Task 4: Laboratory analysis of soil and groundwater samples
- Task 5: Waste disposal

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

Prior to initiating field activities, SOMA obtained a drilling permit from Alameda County Public Works Agency (ACPWA) (Appendix A). ACPWA was contacted on May 7, 2013 to schedule the grouting inspection with Steve Miller.

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

On May 1, 2013, prior to boring advancement activities, SOMA's field crew visited the site and marked proposed well locations using chalk-based white paint. Underground Service Alert (USA) clearance verifying that drilling areas were clear of underground utilities was obtained May 2, 2013 (Ticket 165680). A private utility locator (Cruz Brothers Locators, Inc.) surveyed proposed drilling areas on May 8, 2013 to locate any additional subsurface conduits.

2.2 Advancement of Soil Borings

On May 9, 2013, a C-57 licensed driller, Gregg Drilling and Testing (under SOMA's oversight) advanced two soil borings next to each other (DPT-5 and DPT-5W) for collection of soil (DPT-5) and groundwater (DPT-5W) samples. Both borings were located in the vicinity of historical borings SB-1 and SB-2 and well RS-4. Boring locations are shown in Figure 2. Borings were advanced approximately 50 feet below ground surface (bgs), where the drillers got refusal.

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

For vertical definition, soil samples were collected at depths where historical soil contamination was observed, or where PID readings or visual observations indicated presence of significant soil contamination, or at significant changes in lithology. At each interval of depth-discrete soil sampling, the DPT drilling rig obtained a 4-foot soil sample core. For soil sample collection, SOMA's field geologist cut sections of the soil-filled tubes into 6-inch-long sections and capped each end with a Teflon liner and polyethylene end cap. Samples were labeled with unique identifiers and immediately placed in a chilled ice chest pending transportation to Curtis & Tompkins, Ltd. (C&T), a California state-certified environmental laboratory.

A minimum of one soil sample was analyzed from each soil boring, samples submitted for analyses were selected based on their elevated PID readings with respect to the rest of PID reading observed during advancement of the given boring; the remainder of collected soil samples were put on-hold, pending review of analytical results for the analyzed samples.

Observed subsurface soils consisted of sandy lean clays and clayey sands. Encountered subsurface lithologies were recorded on geologic borehole logs. The contents of each sediment-filled tube were screened using a PID at each screened depth and results were noted on respective boring logs. PID responds to all molecules with ionization potential below 10.6eV, including aromatics and molecules with carbon double bonds. Detected PID readings, summarized on boring logs (Appendix B), ranged between 0.5 ppm and 568 ppm (detected at 12

feet bgs).

To collect grab groundwater samples, a hydropunch sampler was used, where rods must be pulled up and water allowed to recover, a temporary 1-inch-diameter casing and a 5-foot-long well screen were installed over the desired depth-discrete interval. Depth of each soil boring at the time of grab groundwater sampling is documented in Table 2.

As previously mentioned, during the most recent investigation, while logging the soil from boring DPT-5, there was a section where “very moist to wet” soil was encountered at approximately 13 feet bgs. SOMA’s field geologist left the boring open at 15 feet in order to see if enough water would come into the boring in order to sample. Water did come into the boring and the groundwater sample was called DPT-5W-1. Soil borings that were drilled during previous investigations had also been left open to see if water would accumulate at similar depths and no water came into those borings. During the previous investigation it was concluded that the shallow groundwater appears to be perched and somewhat discontinuous, so this shallow zone that was encountered is the perched and discontinuous zone.

During advancement of DPT-5W borings, SOMA’s geologist waited for water to accumulate at 25 feet bgs. After a reasonable time, no water had accumulated at this depth so the boring was left open over night to see if enough water would accumulate for a sample. Upon returning to the site the next day, there was enough water for a groundwater sample, which was called DPT-5W-2. This is considered to be a part of the discontinuous and perched zone discussed above. The groundwater sample that was taken at 50 feet bgs was called DPT-5W-3, and is the First Water Bearing Zone (WBZ).

Where enough groundwater had accumulated, a bailer was utilized to collect groundwater samples. Equipment utilized in sample collection was field decontaminated to avoid cross-contaminating groundwater samples.

Each collected grab groundwater sample was transferred to appropriate vials with Teflon septa with no headspace. The samples were then labeled, logged on a chain-of-custody form, placed in an ice-filled cooler, and kept at 4⁰C pending transport to Curtis & Tompkins Laboratories for analysis.

2.3 Monitoring Well Installations

On May 9 and 10, 2013, a C-57 licensed driller Gregg Drilling and Testing (under SOMA’s oversight) installed two 4-inch diameter groundwater monitoring wells (MW-1 and MW-2). The wells were logged and sampled on May 9 and installed on May 10. Well locations are shown in Figure 2. To clear all subsurface utilities,

each well location was hand cleared to 5 feet below ground surface (bgs). Also on May 10, 2013, Del Secco was onsite to concrete core the location for MW-2.

A hollow stem auger (HSA) was used for drilling to construct these wells. The crew drilled and continuously sampled, where appropriate, for lithologic logging purposes (changing lithology) and visual observations such as odor and discoloration of encountered material. Soil samples were collected for chemical analysis in the areas of formerly elevated PID readings, odor, or visual observations indicative of contaminated area, in the absence of above indicators, a minimum of two samples was collected from each well borings from depths where contamination was historically present. Samples were collected using metal tubes.

Soils observed during well installations of MW-1 and MW-2 were predominantly clayey sands and sandy clays with very little variation from one boring to the next.

Recorded PID readings ranged from 25.2 ppm to 931 ppmv in well MW-1, and from 25.7 ppmv to 1015 ppmv in well MW-2. The highest PID reading was recorded in MW-2 at 10 feet bgs. Field observations and PID readings were noted on geological boring logs (Appendix B). SOMA's field geologist logged continuous soil cores from each boring location, characterizing the content of each soil-filled tube using the Unified Soil Classification System (USCS). Upon soil sampling, both ends of each tube were secured using Teflon tape and tubes were immediately placed in a chilled ice chest. Soil samples were labeled with unique sample identifiers and delivered to a state-certified environmental laboratory under established chain of custody protocol for analysis. No groundwater samples were collected during well installation activities.

These new wells were constructed with 4-inch diameter, schedule 40, polyvinyl chloride 0.02-inch screen, and blank casing, and #3 sand packs. The sand pack was installed from approximately 1 foot above the perforated well casing interval to the total depth of the wells. Approximately 1 foot of bentonite was installed above the sand pack, and a neat cement seal was installed to near ground surface. The grout seal was emplaced to near-surface grade where a flush-mount traffic-rated well vault was installed with a concrete foundation.

2.4 Well Survey and Well Development

On May 24, 2013, Gregg Drilling and Testing developed the newly installed wells under SOMA's oversight. Wells were developed in a minimum of 72 hours following installation; monitoring well development logs are included in Appendix D. The wells were developed by bailing out sediment-rich groundwater followed by pumping and surging the wells. This process continued until purged

groundwater clarified substantially and groundwater quality parameters were stabilized.

On May 28, 2013, a licensed surveyor surveyed (horizontally and vertically) newly installed wells; the survey report is included in Appendix D.

2.5 Waste Disposal

Soil and wastewater generated during well installation, boring, and well development activities was temporarily stored on-site in separate DOT-rated, 55-gallon steel drums pending characterization, profiling, and transport to an approved disposal-recycling facility. The disposal facility required a composite sample from the stored 55-gallon drums to be analyzed for nickel. This sample was obtained on June 21, 2013. Laboratory analytical is attached in Appendix C.

On June 28, 2013, ten 55-gallon steel drums were removed from the site (7) contained soil cuttings and (3) contained wastewater and were transported to an approved facility for proper disposal. The waste manifest is included in Appendix E.

2.6 Laboratory Analysis

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

- Total petroleum hydrocarbons as gasoline and diesel (TPH-g and TPH-d)
- BTEX
- Fuel oxygenates, additives and lead scavengers including MtBE, tertiary-butyl alcohol (TBA), ethyl tertiary-butyl ether (ETBE), diisopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), 1,2-dibromomethane (EDB), naphthalene, and ethanol.
- Bulk (in soil) and dissolved (in groundwater) cadmium and nickel

Analyses employed USEPA Methods 8015, 8260B, and 6010.

2.6.1 Groundwater Analytical Results

Groundwater samples were collected from three zones: DPT-5W-1, DPT-5W-2, and DPT-5W-3. As previously mentioned, during the previous investigation it was concluded that the shallow groundwater appears to be perched and somewhat discontinuous, so it is possible the sample taken from the upper zone that was encountered (DPT-5W-1) is a part of the same discontinuous zone.

In DPT-5W-1, TPH-g was detected at 2,100 µg/L and TPH-d was detected at 4,300 µg/L. BTEX analytes were below laboratory reporting limits in this sample except for benzene and ethylbenzene, detected at 10 µg/L and 23 µg/L, respectively. MtBE was detected at 640 µg/L and TBA was detected at 16,000 µg/L. TAME was detected at 54 µg/L and nickel was detected at 48 µg/L.

In DPT-5W-2, TPH-g was below the laboratory detection limit, though the reporting limit was raised due to higher dilutions. TPH-d was detected at 630 µg/L. All BTEX analytes were below laboratory reporting limits in this sample. MtBE was detected at 40,000 µg/L and TBA was detected at 59,000 µg/L. TAME was detected at 2,200 µg/L and nickel was detected at 24 µg/L. Figures 3 through 7 illustrate contour maps of TPH-g, TPH-d, Benzene, MtBE and TBA concentrations in the Perched Zone.

In DPT-5W-3, TPH-g was below the laboratory detection limit. TPH-d was detected at 320 µg/L. All BTEX analytes were below laboratory reporting limits in this sample. MtBE was detected at 2.8 µg/L and TBA, TAME and nickel were below the laboratory reporting limit. Figures 8 through 10 illustrate maps of TPH-g, TPH-d, benzene, MtBE and TBA concentrations in First WBZ.

During the UST removal activities in August 2011, TPH-g, TPH-d and benzene were detected at 76,000 µg/L, 14,000 µg/L, and 1,600 µg/L, respectively, in groundwater sample T-1 from the northern region of the UST pit. MtBE was detected in this sample at 5,700 µg/L. Total metals such as lead, nickel, and zinc were also detected in T-1 in excess of ESLs established by California Regional Water Quality Control Board (CRWQCB), San Francisco Bay region. TPH-g, TPH-d and benzene were detected at 890 µg/L, 1,500 µg/L, and 8 µg/L, respectively, in groundwater sample T-2 from the southern region of the UST pit. MtBE was detected in this sample at 5,700 µg/L. Total metals such as lead and nickel were also detected in T-2 in excess of ESLs. Concentrations in T-1 and T-2 are shown on Figures 3 through 7 in parentheses.

During the previous CPT/MIP & DPT investigation in March 2012 TPH-g was below the laboratory reporting limit in all shallow groundwater samples. Reporting limits in CPT-1 and CPT-2 were raised due to higher dilutions. TPH-d was detected in a range of 140 µg/L in CPT-1 to 820 µg/L in CPT-2. BTEX analytes were below laboratory reporting limits in shallow groundwater samples except for benzene and toluene detected in CPT-1 at 94 µg/L and 64 µg/L, respectively. MtBE was detected in a range of 2,600 µg/L in DPT-4 to 52,000 µg/L in CPT-2. TBA detections ranged from 28 µg/L in DPT-4 to 92,000 µg/L in CPT/MIP-2. TAME was detected in concentrations ranging from 210 µg/L in DPT-4 to 3,000 µg/L in CPT-2. TPH-g was below laboratory reporting limit in deeper groundwater samples in DPT-3 and was detected in CPT/DPT-1 and CPT/DPT-2 at 96,000 µg/L and 4,500 µg/L, respectively. TPH-d was detected in concentrations ranging from 53 µg/L in DPT-3 to 3,200 µg/L in CPT/DPT-1. BTEX analytes were below laboratory reporting limits in DPT-3. The highest BTEX concentrations were

detected in CPT/DPT-1 at 2,400 µg/L, 11,000 µg/L, 3,100 µg/L, and 14,700 µg/L, respectively. As shown in Table 2, TPH-g, TPH-d, and BTEX concentrations were higher than their ESLs in CPT/DPT-1 and CPT/DPT-2. MtBE was detected in a range of 9,800 µg/L in DPT-3 to 95,000 µg/L in CPT/MIP-1. TBA detections ranged from 1,000 µg/L in DPT-3 to 78,000 µg/L in CPT/DPT-1. TAME was detected in a range of 690 µg/L in DPT-3 to 7,400 µg/L in CPT/DPT-1. Figures 8 through 10 show these concentrations in parentheses.

Current and historical groundwater analytical results with respective ESLs are summarized in Table 2 and Table 3. The laboratory analytical report is contained in Appendix C.

2.6.2 Soil Analytical Results

During the current investigation, elevated PID readings and hydrocarbon odor and staining were observed in the borings for MW-1 and MW-2, as well as boring DPT-5. The maximum PID reading was recorded in boring MW-2 at 10 feet bgs (1,015 ppm).

TPH-g was detected above environmental screening levels (ESL) published by SB Bay Region RWQCB in MW-1 and MW-2. TPH-g was detected in MW-1 at 10 feet bgs (750 mg/kg), 12 feet bgs (910 mg/kg), and 15 feet bgs (460 mg/kg). In MW-2, TPH-g was detected at 10 feet bgs (960 mg/kg) and 12 feet bgs (270 mg/kg). In DPT-5, TPH-g was either below the laboratory-reporting limit or below ESL. Contour maps showing TPH-g concentrations in soil are shown in Figure 11 and Figure 14.

TPH-d was detected above ESL in samples collected from MW-1 at 10 feet bgs (130 mg/kg) and 12 feet bgs (140 mg/kg), and in MW-2 at 10 feet bgs (400 mg/kg). Contour maps showing TPH-d concentrations in soil are shown in Figure 12 and Figure 15.

BTEX was below the laboratory-reporting limit in all soil samples collected from DPT-5. Benzene was below the laboratory-reporting limit in the soil samples from MW-1 and MW-2. Toluene was below the laboratory-reporting limit in MW-2, and was detected above ESL in MW-1 at 12 feet bgs (5.6 mg/kg). Ethylbenzene was detected above ESL in MW-1 and MW-2, with the highest concentrations occurring at 10 feet in both borings at 22 mg/kg and 18 mg/kg, respectively. Xylenes were also detected above ESL in MW-1 and MW-2, with the highest concentrations occurring at 12 feet bgs in MW-1 (124 mg/kg) and at 10 feet bgs in MW-2 (64.5 mg/kg).

MtBE was detected above ESL in samples from DPT-5, MW-1 and MW-2, and ranged from 0.073 mg/kg at 15 feet bgs in DPT-5 to 27 mg/kg at 12 feet bgs in MW-2. TBA was also detected above ESL in all three borings and ranged from

6.20 mg/kg at five feet bgs in MW-1 to 14 mg/kg at 17 feet bgs in MW-2. Contour maps showing MtBE concentrations in soil are shown in Figure 13 and Figure 16.

Naphthalene was detected above ESL in a few samples from DPT-5, MW-1, and MW-2. Detectable naphthalene concentrations ranged from 0.58 mg/kg at 12 feet bgs in DPT-5 to 5.9 mg/kg at 10 feet bgs in MW-2.

Nickel was detected at levels above the ESL in all soil samples. Nickel concentrations ranged from 1,900 mg/kg in DPT-5 at 10 feet bgs to 780 mg/kg in MW-1 at 25 feet bgs.

Table 1 summarizes soil analytical results. The laboratory analytical report is contained in Appendix C.

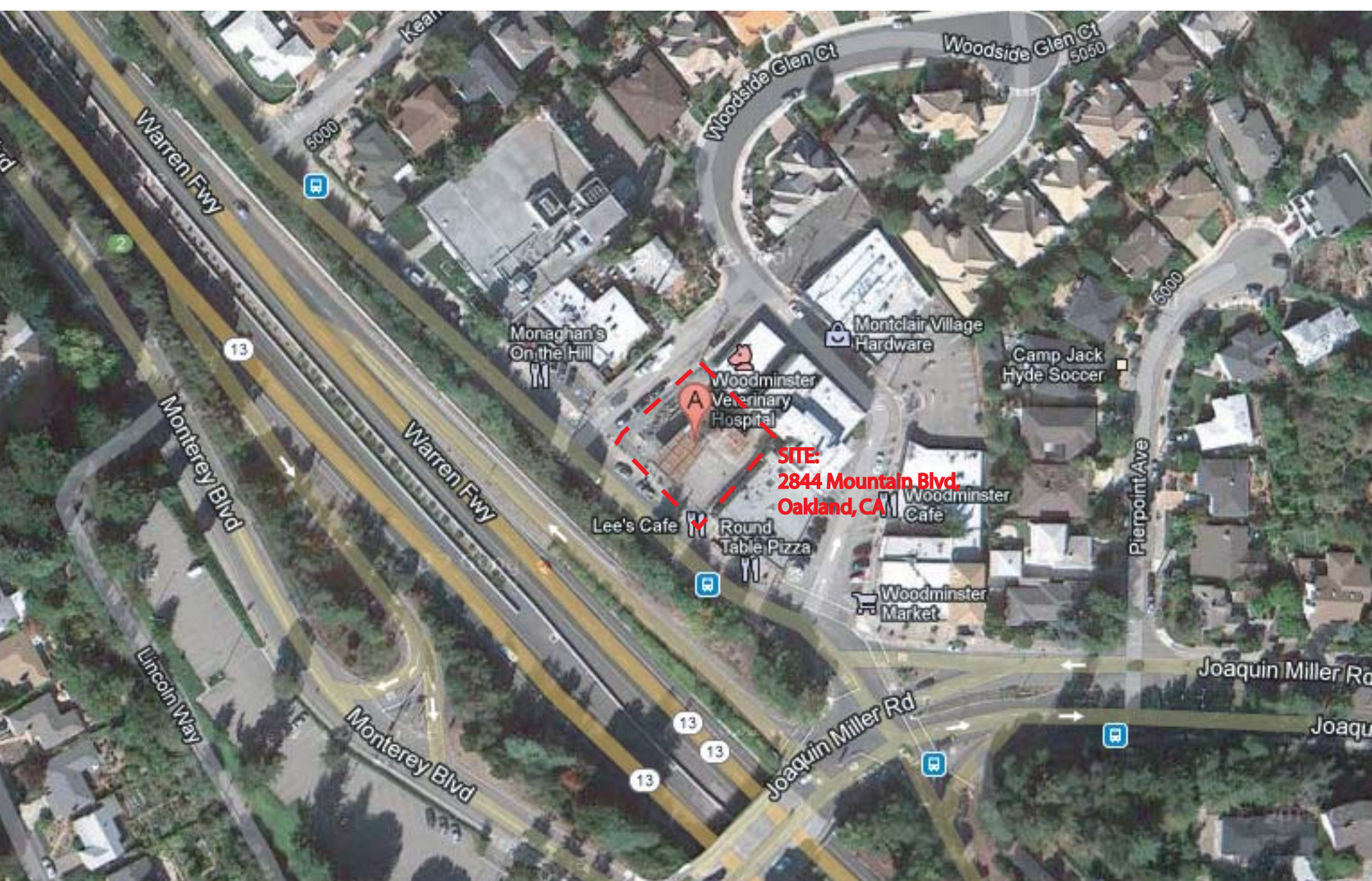
3. CONCLUSIONS AND RECOMMENDATIONS

- SOMA installed two replacement groundwater wells of MW-1 and MW-2, that will be utilized during groundwater monitoring events;
- SOMA drilled two deep soil borings to sample soil in one and three groundwater samples were collected from the second boring, spanning the perched and First WBZs;
- TPH-d was detected in all three samples, and ranged from 4,300 µg/L in DPT-5W-1 to 320 µg/L in DPT-5W-3;
- Maximum benzene concentration was detected in DPT-5W-1 at 10 µg/L; and was below the laboratory-detection limit in DPT-5W-2 and DPT-5W-3.
- TPH-g was detected above environmental screening levels (ESL) in MW-1 and MW-2. TPH-g was detected in MW-1 at 10 feet bgs (750 mg/kg), 12 feet bgs (910 mg/kg), and 15 feet bgs (460 mg/kg). In MW-2, TPH-g was detected at 10 feet bgs (960 mg/kg) and 12 feet bgs (270 mg/kg). In DPT-5, TPH-g was either below the laboratory-reporting limit or below ESL.
- TPH-d was detected above ESL in samples collected from MW-1 at 10 feet bgs (130 mg/kg) and 12 feet bgs (140 mg/kg), and in MW-2 at 10 feet bgs (400 mg/kg).
- Elevated levels of TPH-g, diesel and MtBE in groundwater was reported previously beneath the former USTs in groundwater sample T-1.
- Based on the observation made there, the discontinuous perched water-bearing zone at 13-15 feet bgs has been impacted by the petroleum hydrocarbons.

Due to proximity of the site to a public school, SOMA request for an air discharge permit from the Bay Area Air Quality Management District (BAAQMD) was delayed. As such, upon receiving the air discharge permit from the BAAQMD SOMA will conduct the MPE pilot test at the site. It is expected that results of the pilot test will show how effectively the MPE technology can extract and remove the remaining contaminants from the soil and groundwater from the inaccessible

area that could not be removed by excavation at the site. It is also recommended that another groundwater monitoring well be installed in close proximity of boring SS-1 in order to monitor elevated levels of chemicals in groundwater.

FIGURES



Source: Google (R) 2012

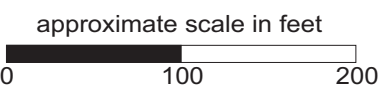
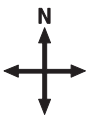
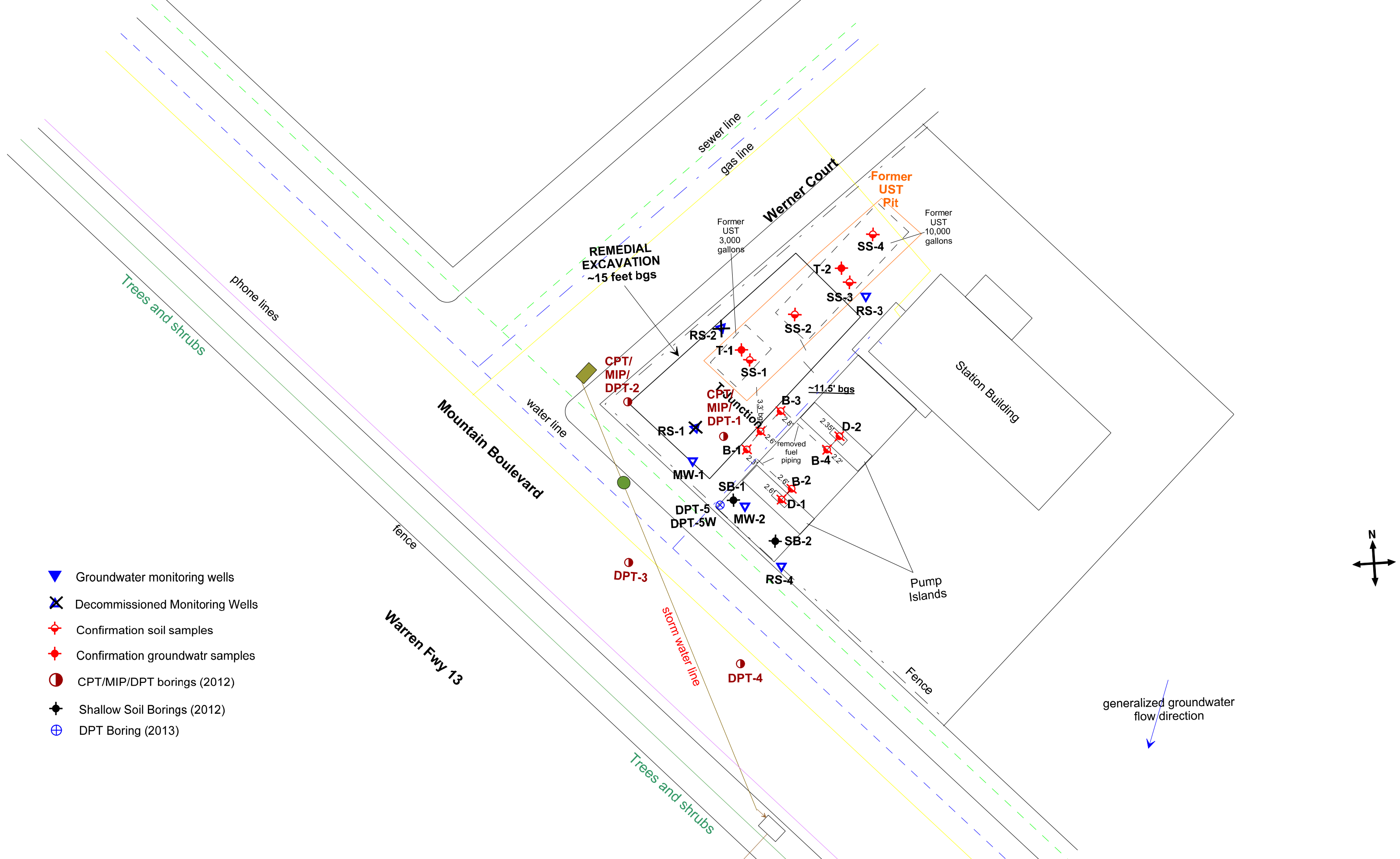









Figure 1: Site Vicinity Map





-  Groundwater monitoring wells
-  Decommissioned Monitoring Wells
-  Confirmation soil samples
-  Confirmation groundwatr samples
-  CPT/MIP/DPT borings (2012)
-  Shallow Soil Borings (2012)
-  DPT Boring (2013)

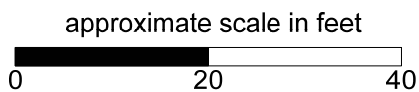
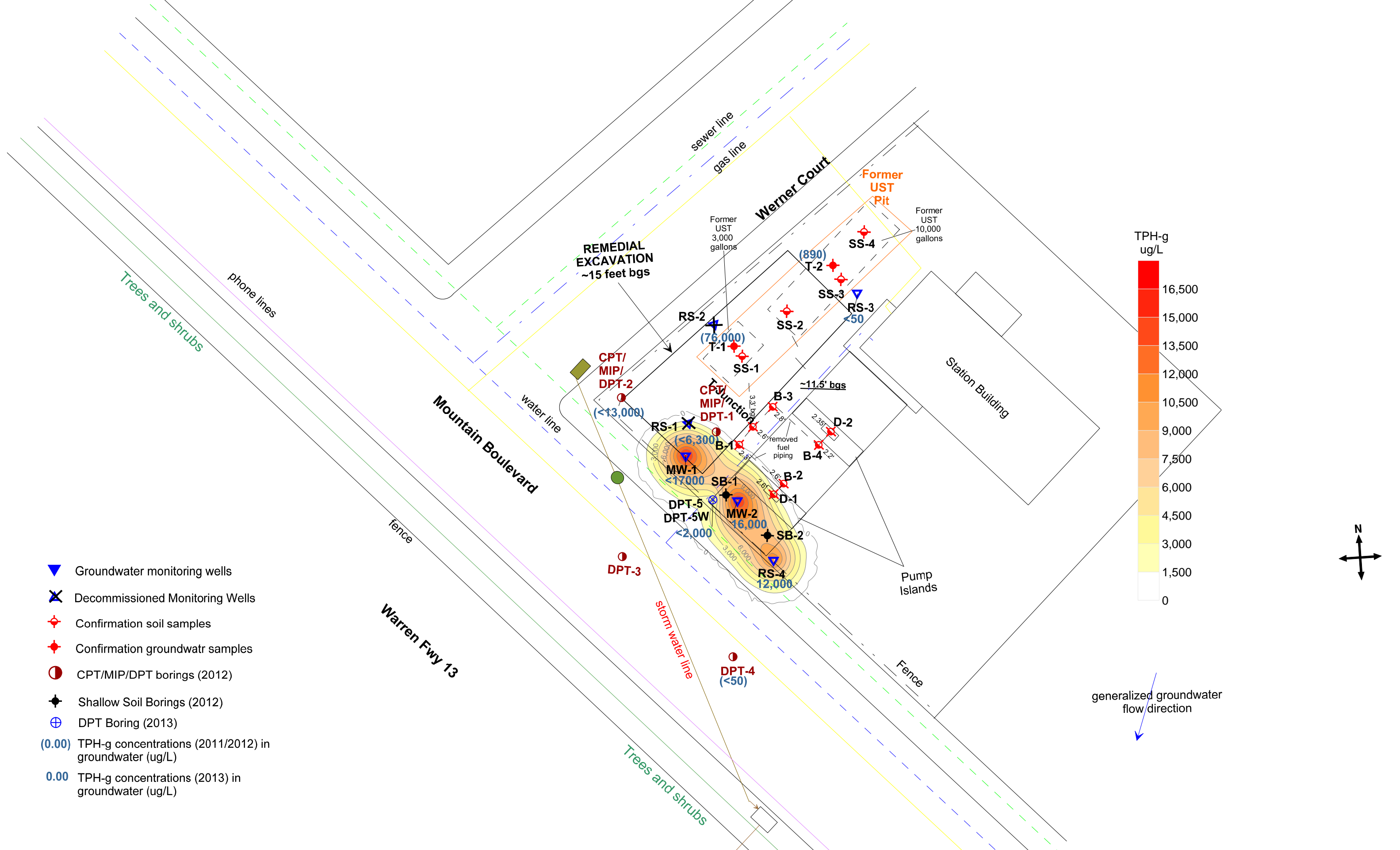
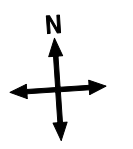
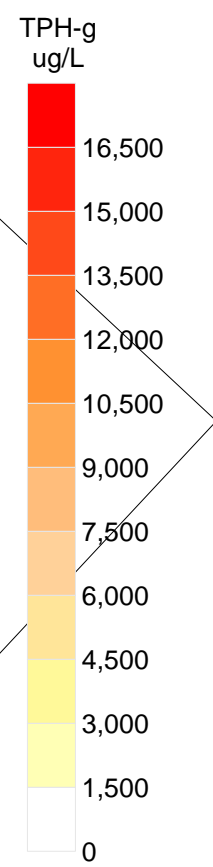


Figure 2: Site Map Showing Locations of Former USTs, Soil Borings, and Groundwater Monitoring Wells



- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⊕ Confirmation soil samples
- ⊕ Confirmation groundwater samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- ⊕ DPT Boring (2013)
- (0.00) TPH-g concentrations (2011/2012) in groundwater (ug/L)
- 0.00 TPH-g concentrations (2013) in groundwater (ug/L)



generalized groundwater flow direction

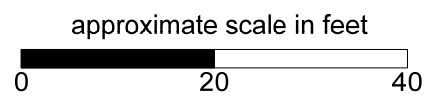
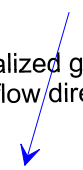


Figure 3: Contour map of TPH-g concentrations in groundwater in Perched Zone

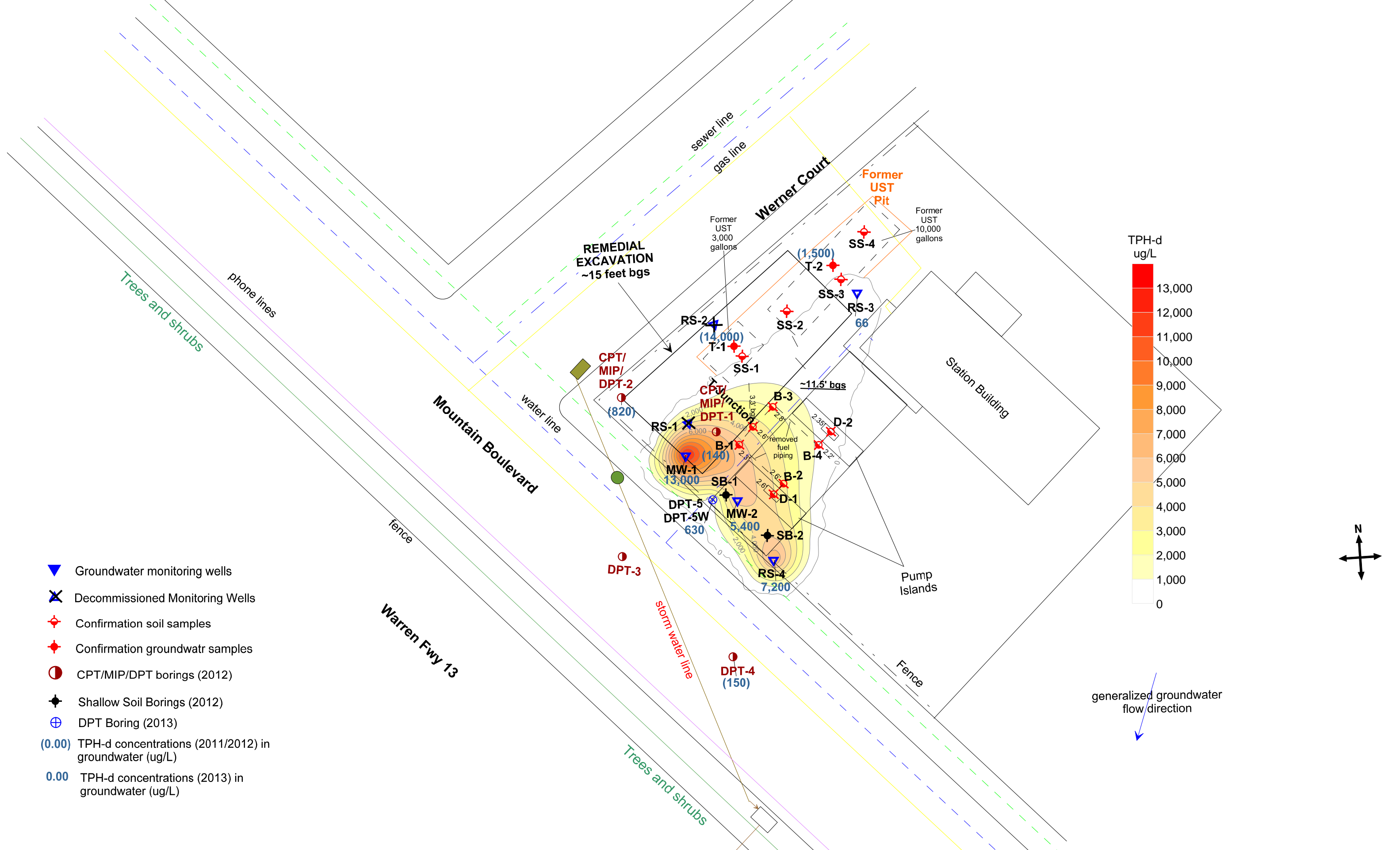
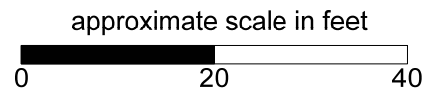
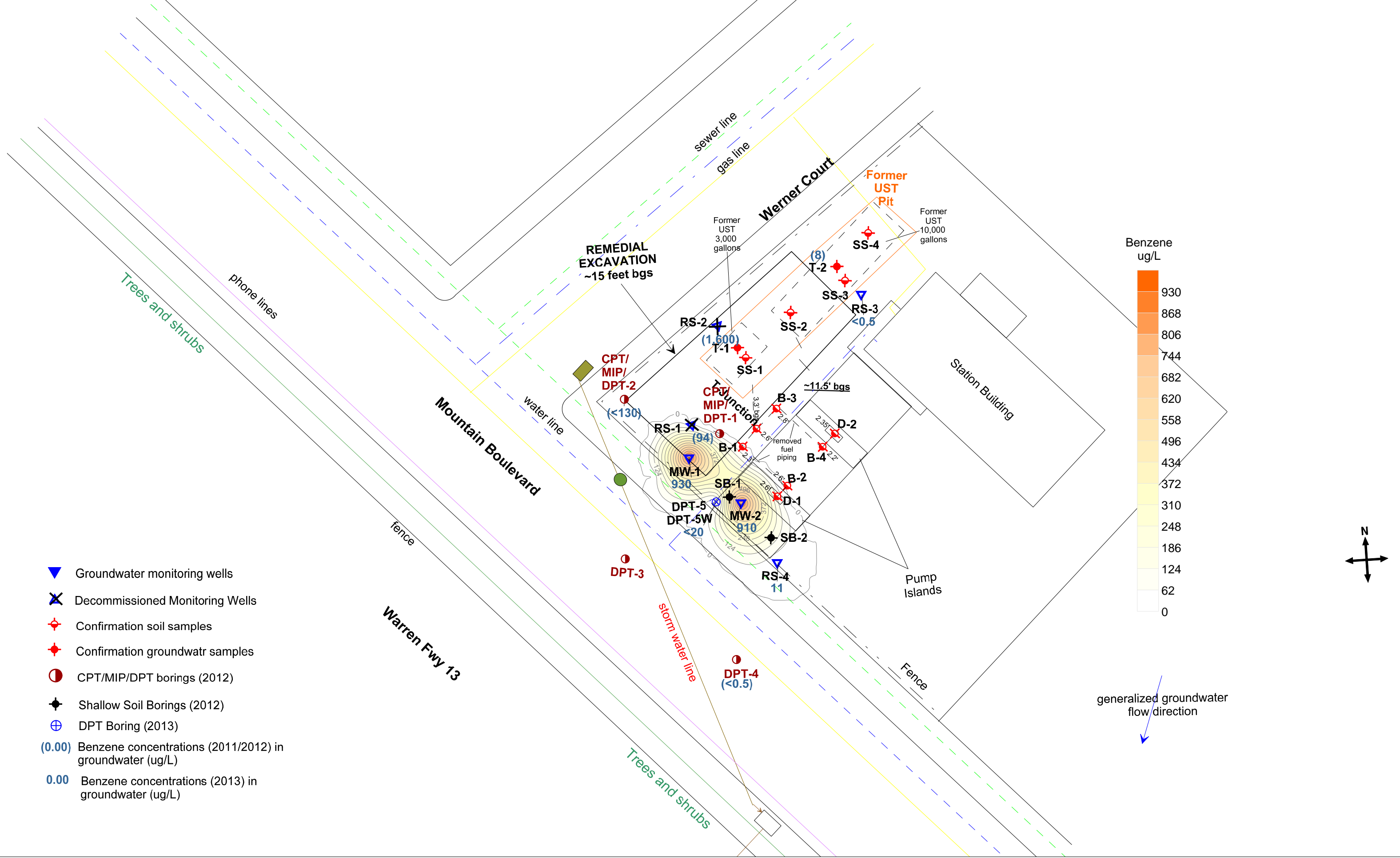


Figure 4: Contour map of TPH-d concentrations in groundwater in Perched Zone





- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⊕ Confirmation soil samples
- ⊕ Confirmation groundwater samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- ⊕ DPT Boring (2013)
- (0.00) Benzene concentrations (2011/2012) in groundwater (ug/L)
- 0.00 Benzene concentrations (2013) in groundwater (ug/L)

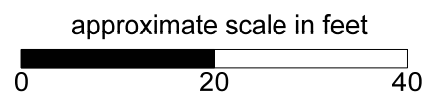
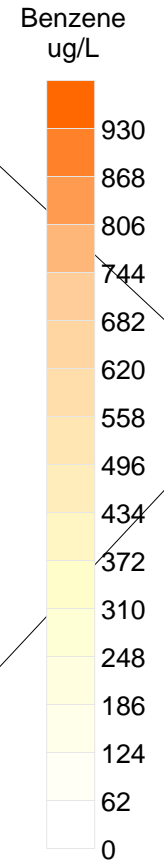


Figure 5: Contour map of Benzene concentrations in groundwater in Perched Zone

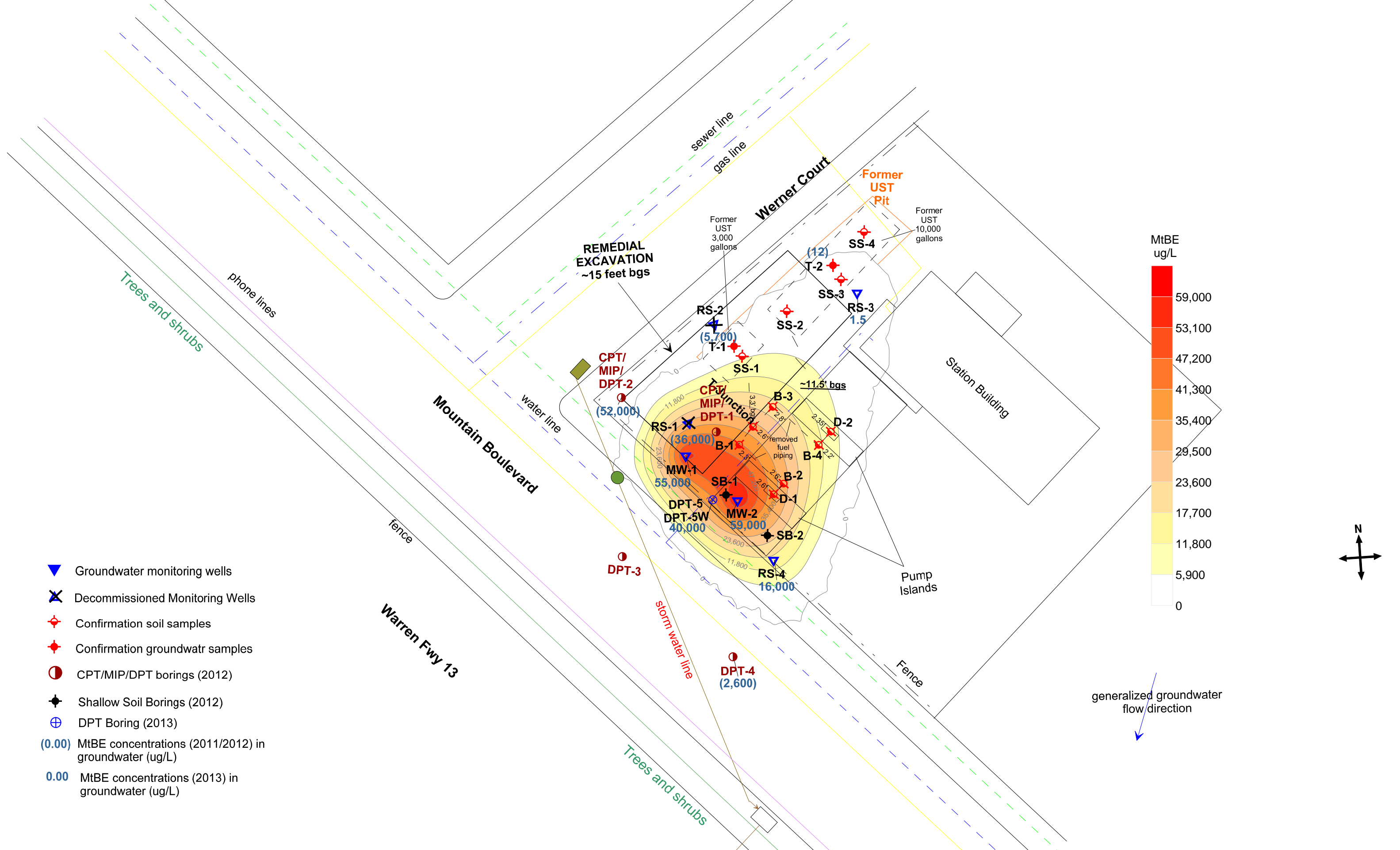
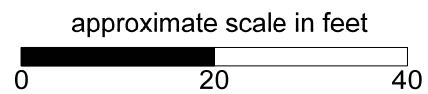


Figure 6: Contour map of MtBE concentrations in groundwater in Perched Zone



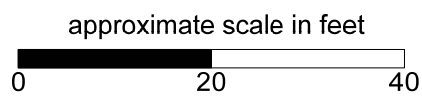
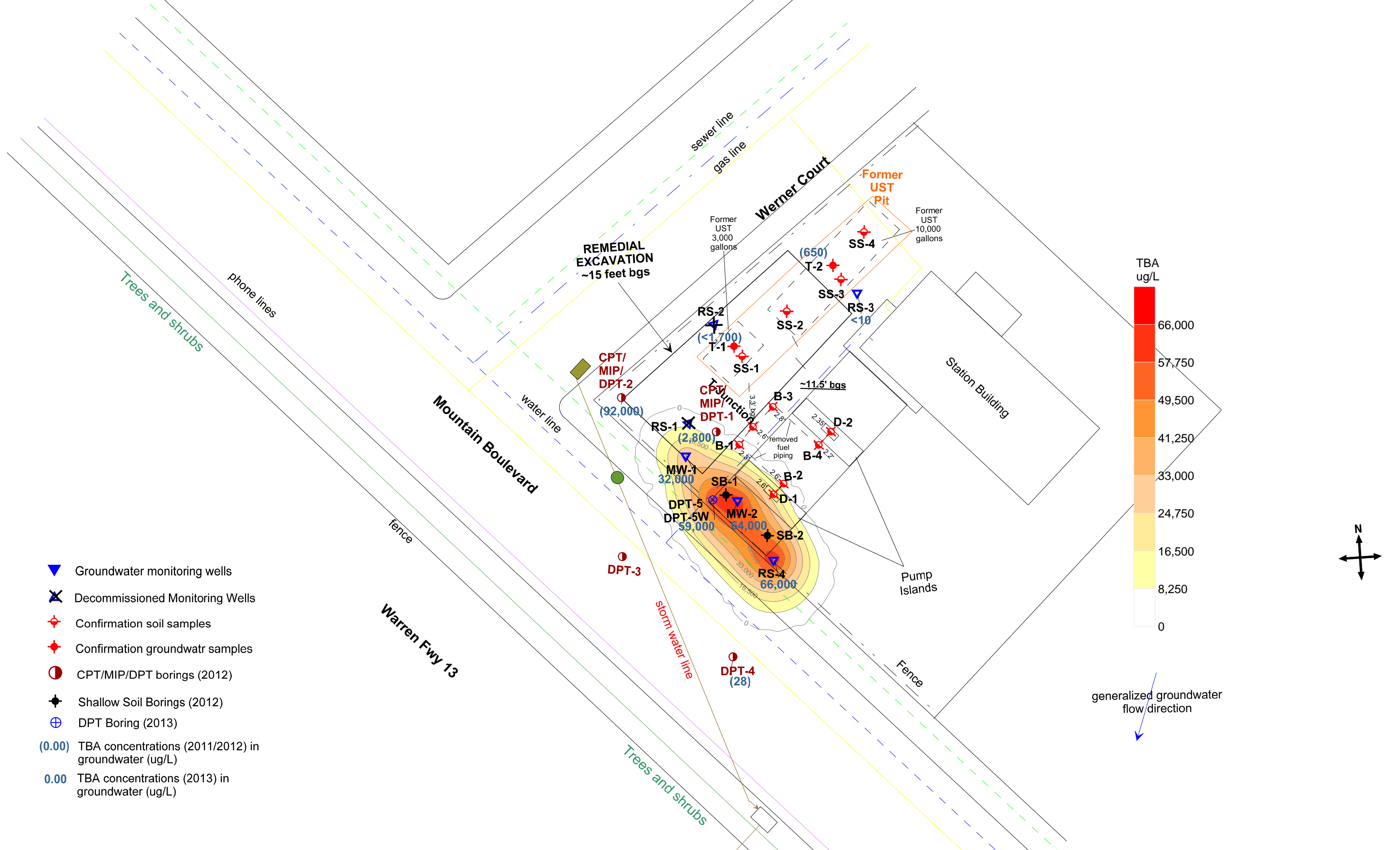
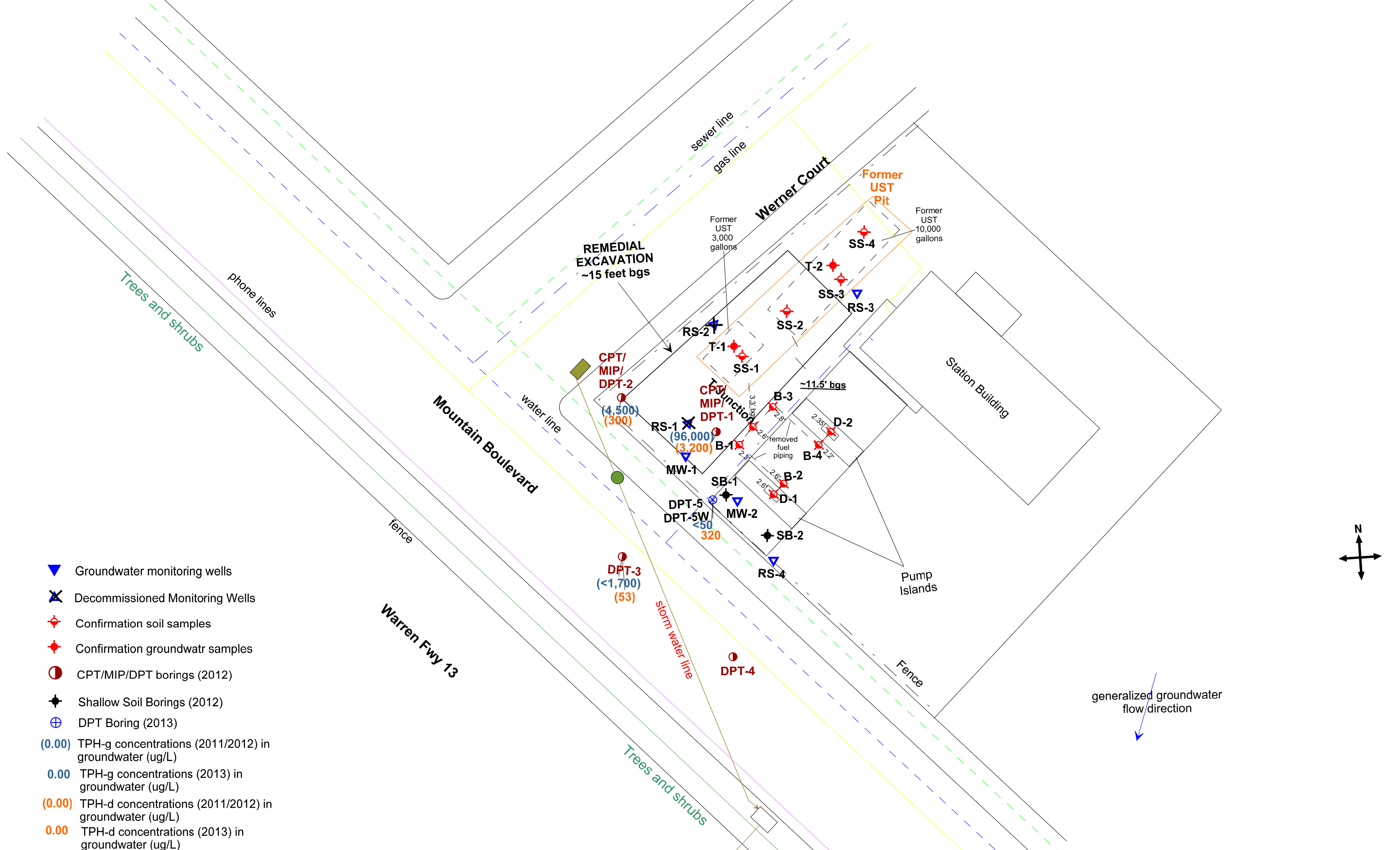


Figure 7: Contour map of TBA concentrations in Perched Zone



- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⊕ Confirmation soil samples
- ⊕ Confirmation groundwater samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- ⊕ DPT Boring (2013)
- (0.00) TPH-g concentrations (2011/2012) in groundwater (ug/L)
- 0.00 TPH-g concentrations (2013) in groundwater (ug/L)
- (0.00) TPH-d concentrations (2011/2012) in groundwater (ug/L)
- 0.00 TPH-d concentrations (2013) in groundwater (ug/L)

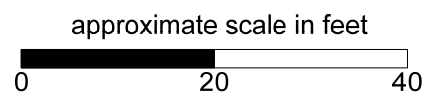


Figure 8: Map of TPH-g and TPH-d concentrations in groundwater in First WBZ

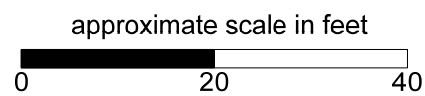
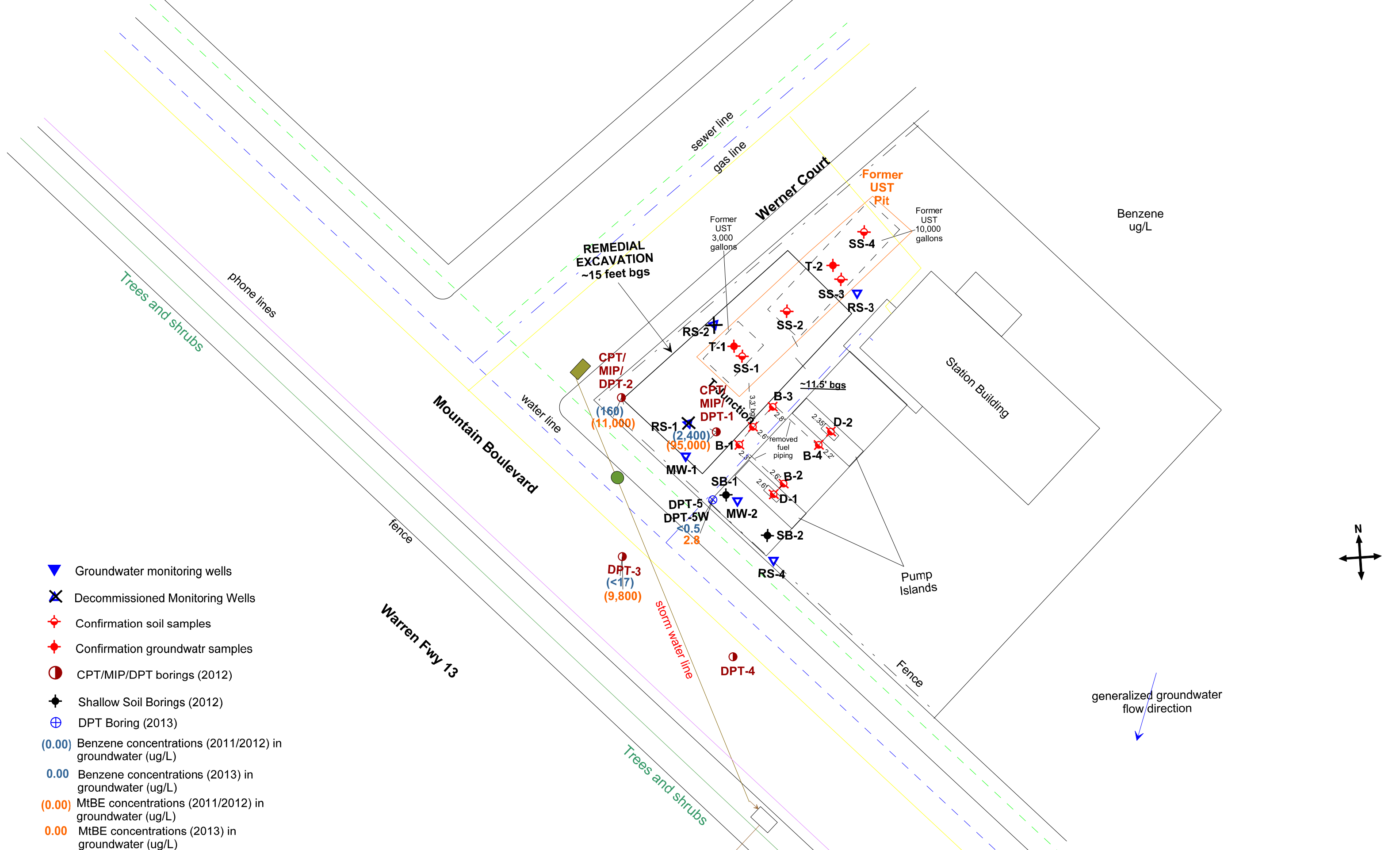
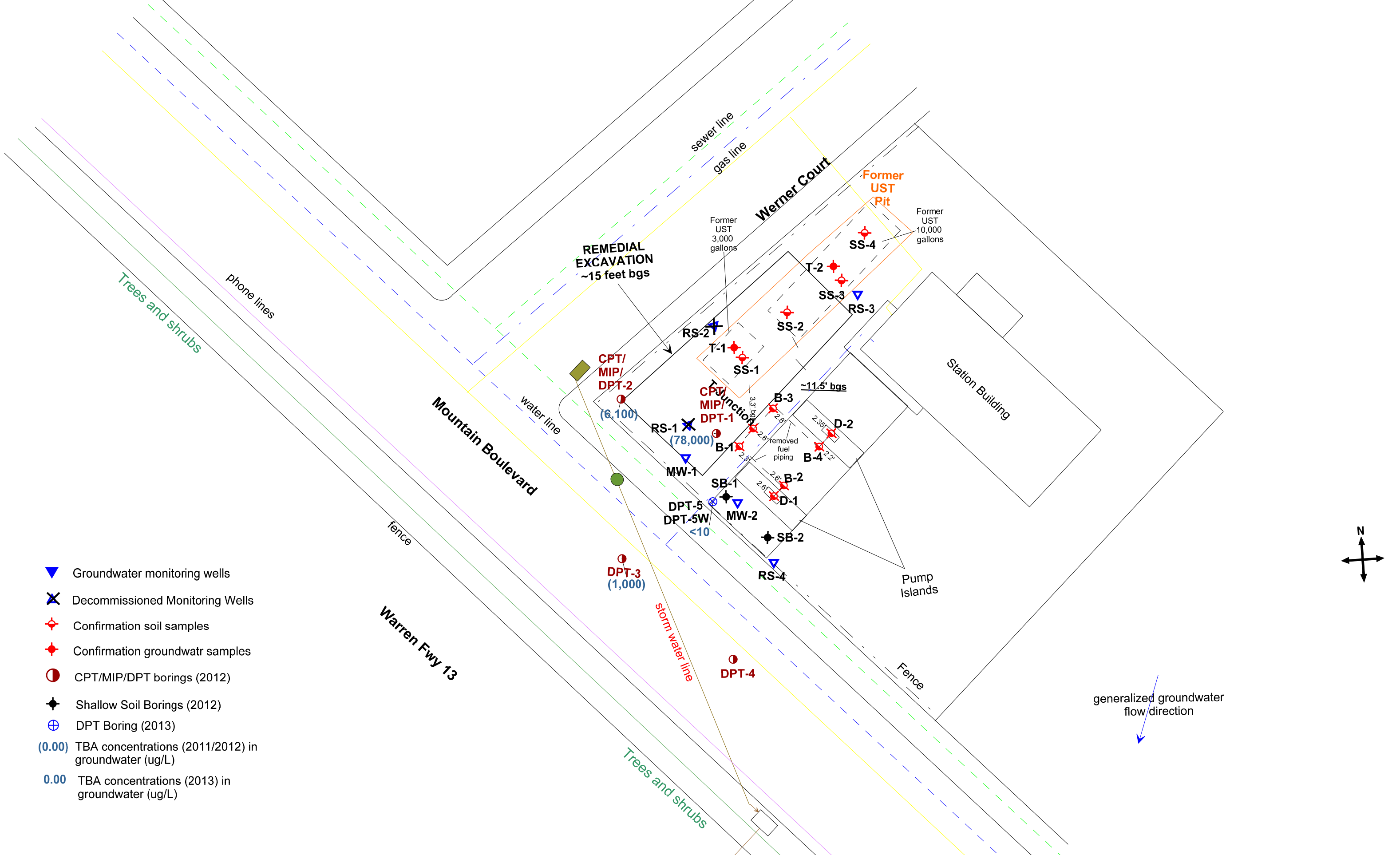


Figure 9: Map of Benzene and MtBE concentrations in groundwater in First WBZ



- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⊕ Confirmation soil samples
- ⊕ Confirmation groundwater samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- ⊕ DPT Boring (2013)
- (0.00) TBA concentrations (2011/2012) in groundwater (ug/L)
- 0.00 TBA concentrations (2013) in groundwater (ug/L)

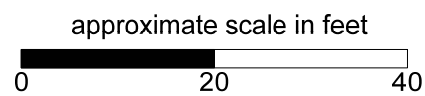
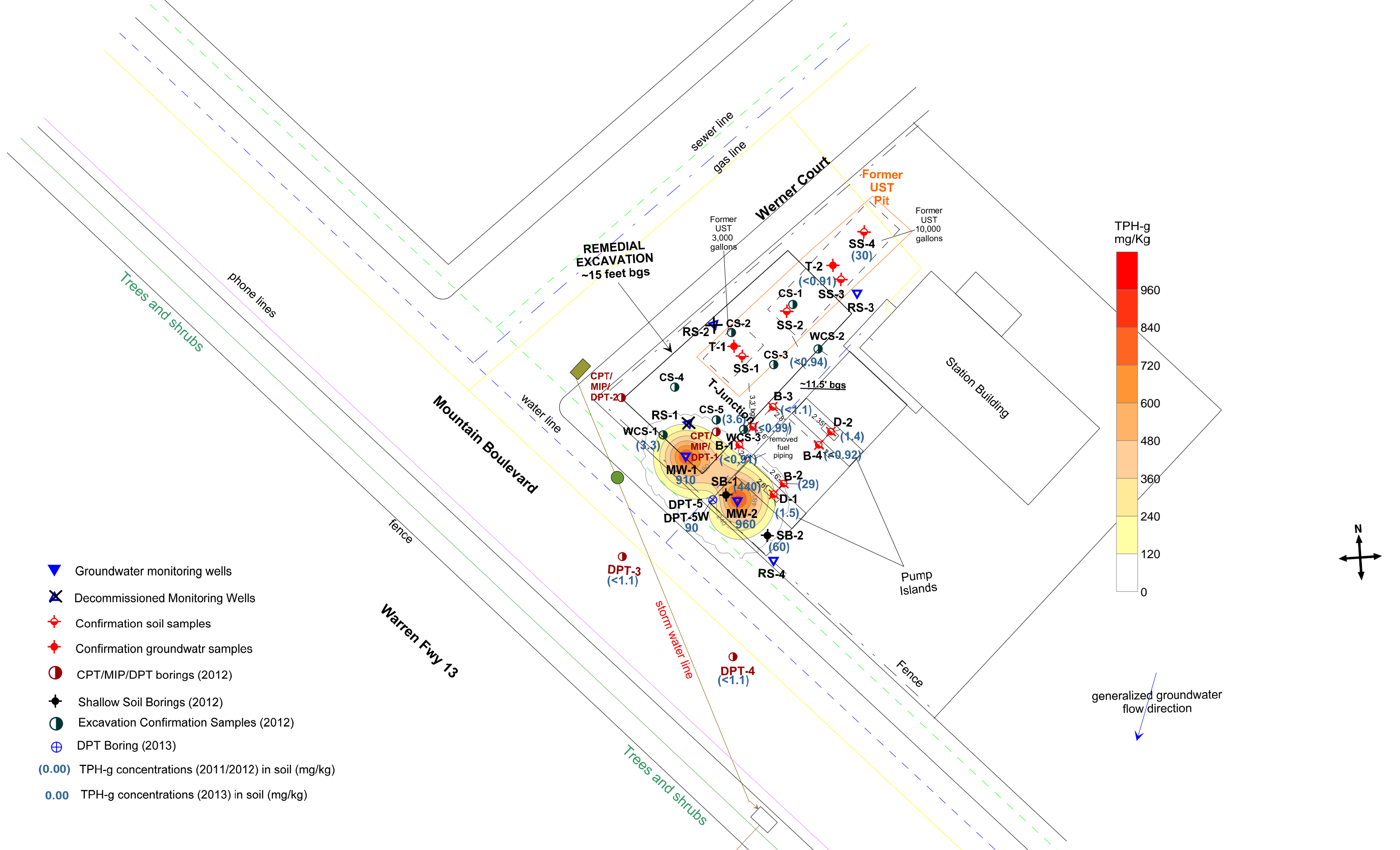
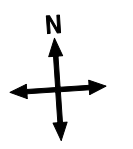
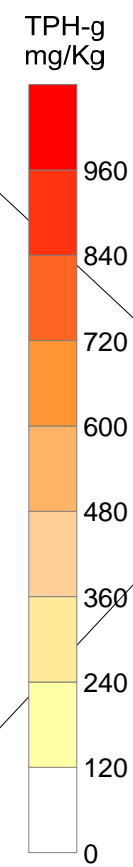


Figure 10: Map of TBA concentrations in groundwater in First WBZ



- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⊕ Confirmation soil samples
- ⊕ Confirmation groundwatr samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- Excavation Confirmation Samples (2012)
- ⊕ DPT Boring (2013)
- (0.00) TPH-g concentrations (2011/2012) in soil (mg/kg)
- 0.00 TPH-g concentrations (2013) in soil (mg/kg)



generalized groundwater flow direction

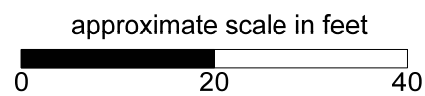
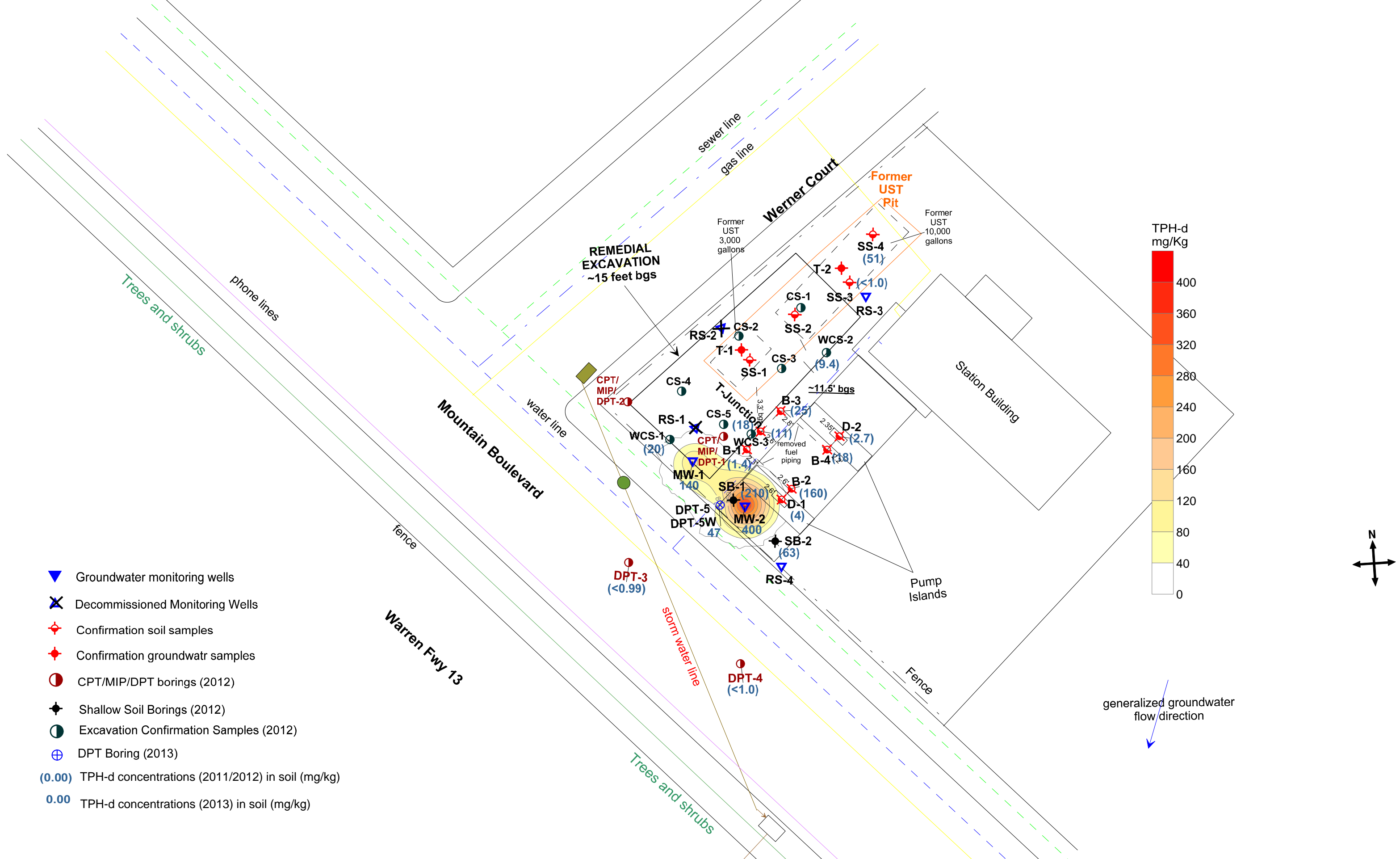


Figure 11: Contour map of TPH-g concentrations in soil at 0-12 ft bgs



- ▼ Groundwater monitoring wells
- ✕ Decommissioned Monitoring Wells
- ⬮ Confirmation soil samples
- ⬮ Confirmation groundwatr samples
- CPT/MIP/DPT borings (2012)
- ◆ Shallow Soil Borings (2012)
- Excavation Confirmation Samples (2012)
- ⊕ DPT Boring (2013)
- (0.00) TPH-d concentrations (2011/2012) in soil (mg/kg)
- 0.00 TPH-d concentrations (2013) in soil (mg/kg)

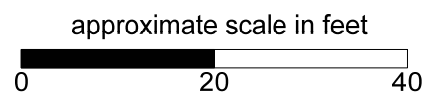


Figure 12: Contour map of TPH-d concentrations in soil at 0-12 ft bgs

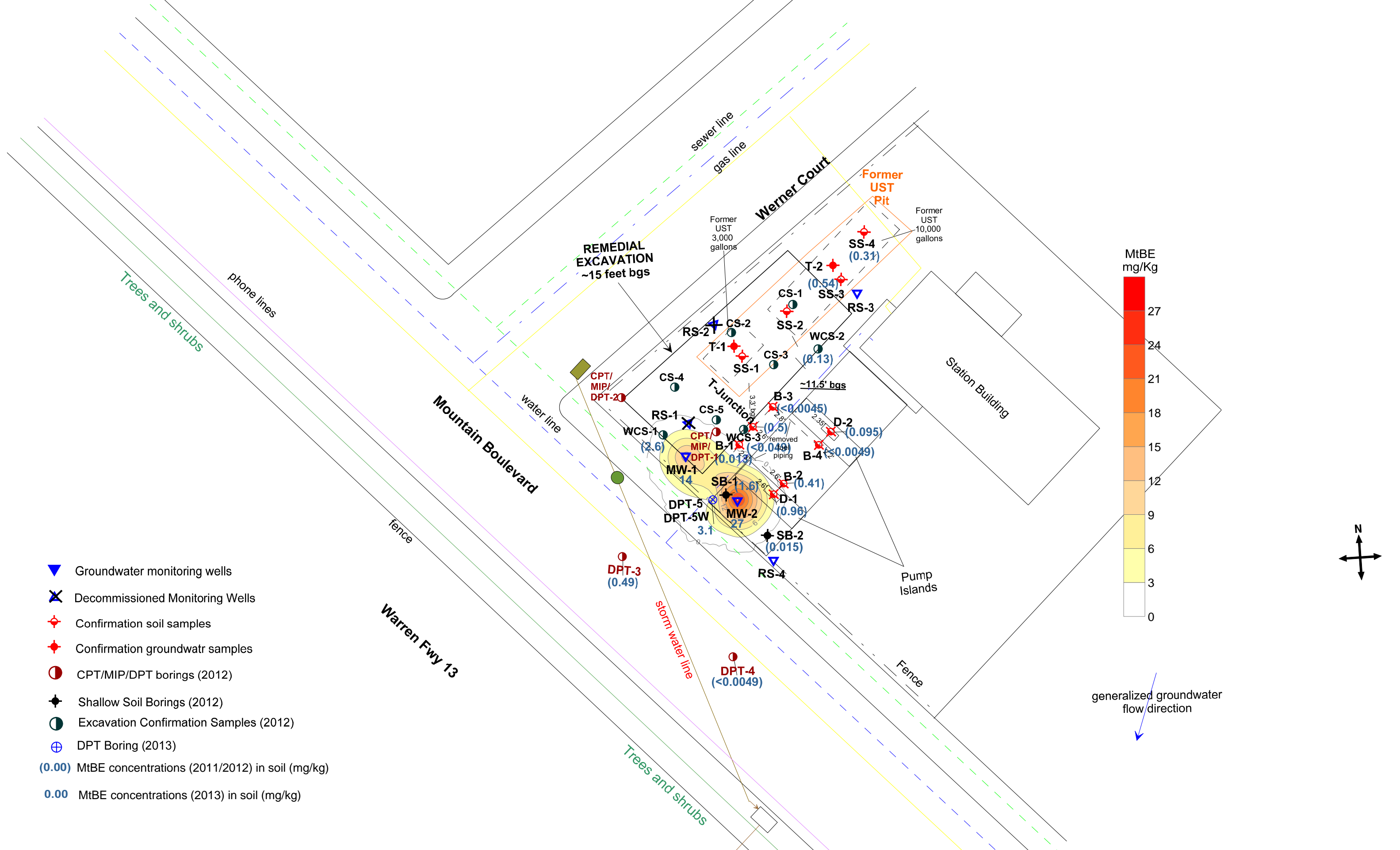
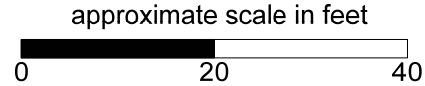


Figure 13: Contour map of MtBE concentrations in soil at 0-12 ft bgs



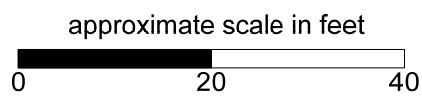


Figure 14: Map of TPH-g concentrations in soil at 12-20 ft bgs

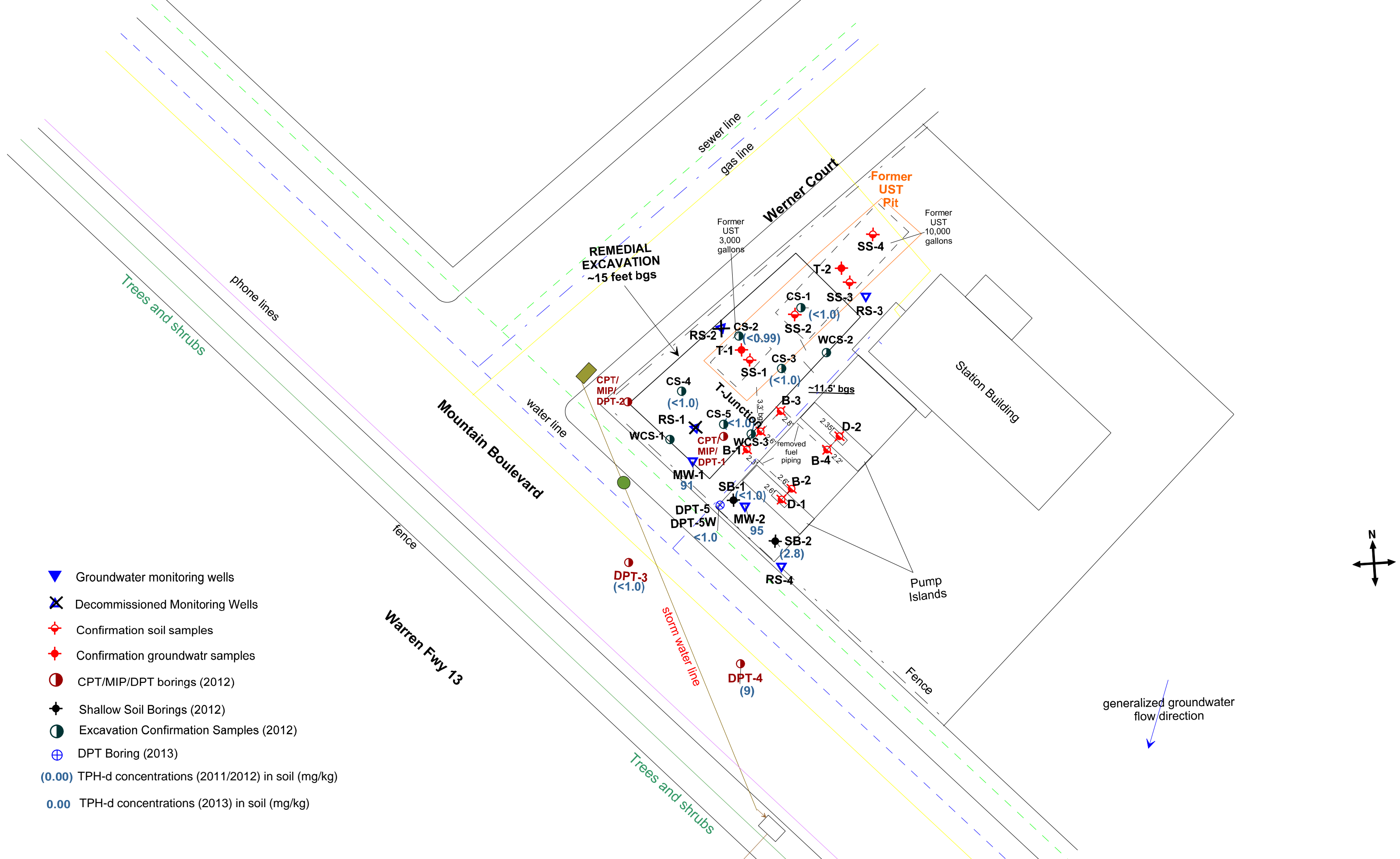
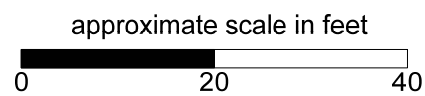


Figure 15: Map of TPH-d concentrations in soil at 12-20 ft bgs



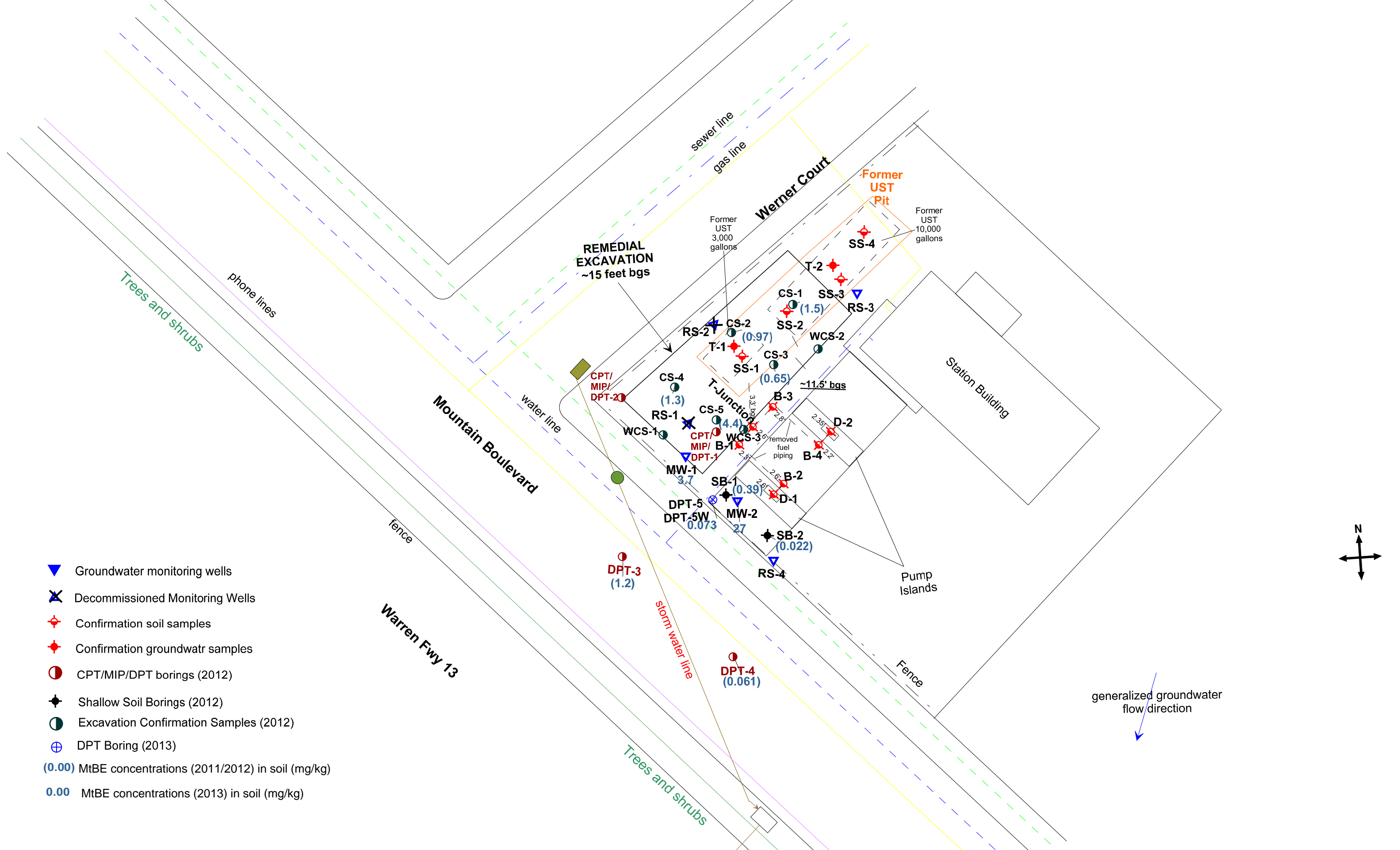
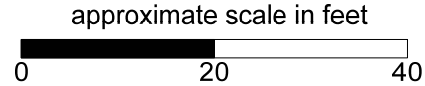


Figure 16: Map of MtBE concentrations in soil (12-20) ft bgs



TABLES

Table 1:
Soil Analytical Data
2844 Mountain Blvd, Oakland, CA

Sample ID	Date	Sample Depth (feet)	TPH-g (mg/kg)	TPH-d (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MtBE (mg/kg)	TBA (mg/kg)	TAME (mg/kg)	Methanol (mg/kg)
Sampling Beneath USTs												
SS-1	8/9/2011	41-50	2,300	630 Y	<2.5	15	17	123	3.3	<50	<2.5	4-5 C
SS-2	8/9/2011	41-50	690 Y	800	<2.0	<2.0	<2.0	<2.0	<2.0	<40	<2.0	<1.0
SS-3	8/9/2011	11.50	<0.91	<1.0	0.0053	0.06	0.0078	0.0430	0.54	0.11	0.14	<1.0
SS-4	8/9/2011	11.50	30 Y	51 Y	0.0054	0.055	0.011	0.054	0.310	<0.1	0.064	<1.0
CS-1-CS-4 Composite	8/9/2011	NA	570 Y	180 Y	<1.3	2.1	4.8	35	<1.3	<25	<1.3	<1.0
Sampling Beneath Fuel Piping												
T-Junction	8/18/2011	2.6-3.3	<0.99	11 Y	<0.0047	<0.0047	<0.0047	<0.0047	0.5	0.82	0.031	<0.98
B-1	8/18/2011	2.30	<0.91	1.4 Y	<0.005	<0.005	<0.005	<0.005	0.013	<0.1	<5	<1
B-2	8/18/2011	2.60	29 Y	160	<0.033	<0.033	<0.033	<0.033	0.410	1.6	0.044	<1
B-3	8/18/2011	2.80	<1.1	25 Y	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.091	<0.0045	<0.99
B-4	8/18/2011	2.20	<0.92	18 Y	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.097	<0.0049	<0.98
D-1	8/18/2011	2.60	2	4.0 Y	<0.026	<0.026	<0.026	0.050	0.96	3.1	0.140	1.4 C
D-2	8/18/2011	2.35	1.4 Y	2.7 Y	<0.0048	<0.0048	<0.0048	<0.0048	0.095	0.57	<0.0048	<0.99
CPT/DPT-1	3/16/2012	8	1,300	99 Y	<1.0	<1.0	16	58	16	<20	1.6	NA
CPT/DPT-1	3/16/2012	45	4.9	4.6 Y	<1.0	<1.0	<1.0	<1.0	13	38	<1.0	NA
CPT/DPT-1	3/16/2012	42	<0.93	2.2 Y	<0.0049	<0.0049	<0.0049	<0.0049	0.50	0.27	0.020	NA
CPT/DPT-2	3/16/2012	40	28	24 Y	<0.25	<0.25	<0.25	0.260	1.7	7.10	<0.25	NA
CPT/DPT-2	3/16/2012	46	<0.98	<1.0	<0.046	<0.046	<0.046	<0.046	0.084	14.00	<0.046	NA
CPT/DPT-2	3/16/2012	48	<1.0	1.1 Y	<0.0049	<0.0049	<0.0049	<0.0049	0.200	<0.098	0.013	NA
DPT-3	3/15/2012	8	<1.1	<0.99	<0.0049	<0.0049	<0.0049	<0.0049	0.490	<0.099	0.027	NA
DPT-3	3/15/2012	15	<0.97	<1.0	<0.0047	<0.0047	<0.0047	<0.0047	1.200	<0.094	0.026	NA
DPT-4	3/15/2012	8	<1.1	<1.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.098	<0.0049	NA
DPT-4	3/15/2012	16	7.1 Y	9.0 Y	<0.0049	<0.0049	<0.0049	<0.0049	0.061	<0.098	<0.0049	NA
DPT-4	3/15/2012	43	<1.1	<1.0	<0.0049	<0.0049	<0.0049	<0.0049	0.025	<0.098	<0.0049	NA
Aug-12												
SB-1	8/31/2012	6	<1.1	<1.0	<0.0049	<0.0049	<0.0049	<0.0049	0.0051	NA	NA	NA
SB-1	8/31/2012	10	440 Y	210 Y	<0.63	<0.63	6.50	9.70	1.60	NA	NA	NA
SB-1	8/31/2012	13	11 Y	<1.0	<0.02	<0.02	<0.02	<0.02	0.39	NA	NA	NA
SB-2	8/31/2012	6	<0.93	63 Y	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA	NA
SB-2	8/31/2012	10	60 Y	3.4 Y	<0.01	<0.01	<0.01	0.016	0.015	NA	NA	NA
SB-2	8/31/2012	13	4.4 Y	2.8 Y	<0.0048	<0.0048	<0.0048	<0.0048	0.022	NA	NA	NA
Oct-12												
CS-1	10/4/2012	15	<1.0	<1.0	<0.049	<0.049	<0.049	<0.049	1.50	<0.98	<0.049	NA
CS-2	10/4/2012	15	<1.1	<0.99	<0.0047	<0.0047	<0.0047	<0.0047	0.97	0.78	0.045	NA
CS-3	10/4/2012	15	<1.1	<1.0	<0.0049	<0.0049	<0.0049	<0.0049	0.65	5.50	0.031	NA
CS-4	10/4/2012	15	<1.1	<1.0	<0.024	<0.024	<0.024	<0.024	1.30	6.50	0.110	NA
CS-5	10/5/2012	15	<1.1	<1.0	<0.049	<0.049	<0.049	<0.049	4.40	20	0.58	NA
WCS-1	10/8/2012	10	3.3	20 Y	<0.047	<0.047	<0.047	0.560	2.60	6.50	0.53	NA
WCS-2	10/8/2012	10	<0.94	9.4 Y	<0.01	<0.01	<0.01	<0.01	0.13	30	<0.01	NA
WCS-3	10/8/2012	10	3.6 Y	18 Y	<0.049	<0.049	<0.049	<0.049	<0.049	4.50	<0.049	NA
May-13												
DPT-5	5/9/2013	4 b	3.7 Y	16 Y	<0.25	<0.25	<0.25	<0.25	2.6	<5.0	1.0	NA
DPT-5	5/9/2013	10	90 Y	47	<0.25	<0.25	0.77	<0.25	1.5	<5.0	<0.25	NA
DPT-5	5/9/2013	12	56 Y	17	<0.25	<0.25	0.87	0.53	3.10	<5.0	0.36	NA
DPT-5	5/9/2013	15	<0.98	<1.0	<0.025	<0.025	<0.025	<0.025	0.073	9.10	<0.025	NA
DPT-5	5/9/2013	30	<0.96	1.1 Y	<0.0047	<0.0047	<0.0047	<0.0047	0.0063	<0.094	<0.0047	NA
DPT-5	5/9/2013	50	<1.1	<1.0	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.098	<0.0049	NA
MW-1	5/9/2013	5 b	3.9	11 Y	<0.25	<0.25	<0.25	<0.25	7.6	6.20	0.45	NA
MW-1	5/9/2013	10	750	130	<1.0	<1.0	22	108	14	<20	2.1	NA
MW-1	5/9/2013	12	910	140	<2.0	5.6	19	124	7.7	<40	<2.0	NA
MW-1	5/9/2013	15 b	460	91 b	<0.5	1.7 b	6.8 b	42 b	3.7 b	<10	<0.5	NA
MW-1	5/9/2013	25	2	1.3 Y	<0.5	<0.5	<0.5	<0.5	11	<10	0.60	NA
MW-2	5/9/2013	7 b	7.2 Y	21 Y	<0.25	<0.25	<0.25	<0.25	0.39 b	<5.0	<0.25	NA
MW-2	5/9/2013	10	960	400	<1.3	<1.3	18	64.5	14	<25	3	NA
MW-2	5/9/2013	12	270	95	<1.0	<1.0	5	27	27	<20	4.8	NA
MW-2	5/9/2013	17	<0.99	<1.0	<0.25	<0.25	<0.25	<0.25	2.2	14	<0.25	NA
ESL - Shallow Soil Residential, Potential Drinking			100	100	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA
ESL-Deep Soil Residential, Potential Drinking			580	530	0.044	2.9	3.3	2.3	0.023	0.075	NA	NA

**Table 1:
Soil Analytical Data
2844 Mountain Blvd, Oakland, CA**

Sample ID	Date	Sample Depth (feet)	Acetone (mg/kg)	Methylene chloride (mg/kg)	Isopropylbenzene (mg/kg)	Propylbenzene (mg/kg)	1,3,5-Trimethylbenzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	sec-Butylbenzene (mg/kg)	n-Butylbenzene (mg/kg)	Naphthalene (mg/kg)	Ethanol (mg/kg)
Sampling Beneath USTs												
SS-1	8/9/2011	41.50	<10	<10	2.7	12	29	93	<2.5	7.5	19	2
SS-2	8/9/2011	41.50	<8.0	<8.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	3.8	<4.0
SS-3	8/9/2011	11.50	0.057	0.026	<0.0046	<0.0046	<0.0046	0.0059	<0.0046	<0.0046	<0.0046	<1.0
SS-4	8/9/2011	11.50	0.045	<0.02	<0.005	0.005	<0.005	<0.005	0.0066	0.011	<0.005	<1.0
CS-1-CS-4 Composite	8/9/2011	NA	<5.0	<5.0	<1.3	3.3	9.8	30	<1.3	1.8	4.5	<1.0
Sampling Beneath Fuel Piping												
T-Junction	8/18/2011	2.6-3.3	0.087	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.98
B-1	8/18/2011	2.30	0.025	<0.02	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<1
B-2	8/18/2011	2.60	0.320	<0.130	0.048	0.250	<0.033	<0.033	0.055	0.250	0.670	1.4
B-3	8/18/2011	2.80	<0.018	<0.018	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	<0.99
B-4	8/18/2011	2.20	<0.019	<0.019	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.98
D-1	8/18/2011	2.60	0.710	<0.1	<0.26	0.038	<0.026	0.099	<0.026	<0.026	<0.026	<0.98
D-2	8/18/2011	2.35	0.170	<0.019	<0.0048	0.0072	0.0054	0.029	<0.0048	<0.0048	<0.0048	<0.99
Oct-12												
CS-1	10/4/2012	15	<0.20	<0.20	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<9.80
CS-2	10/4/2012	15	<0.019	<0.019	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.94
CS-3	10/4/2012	15	<0.019	<0.019	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.97
CS-4	10/4/2012	15	<0.097	<0.097	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<0.024	<4.90
CS-5	10/5/2012	15	0.25	<0.20	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	<9.80
WCS-1	10/8/2012	10	1.70	<0.19	<0.047	<0.047	0.15	0.24	<0.047	<0.047	<0.047	<9.4
WCS-2	10/8/2012	10	2.90	<0.041	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	0.013	<2.0
WCS-3	10/8/2012	10	0.91	<0.20	<0.049	<0.049	<0.049	<0.049	<0.049	<0.049	0.077	<9.8
May-13												
DPT-5	5/9/2013	4	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<50
DPT-5	5/9/2013	10	NA	NA	NA	NA	NA	NA	NA	NA	1.40	<50
DPT-5	5/9/2013	12	NA	NA	NA	NA	NA	NA	NA	NA	0.58	<50
DPT-5	5/9/2013	15	NA	NA	NA	NA	NA	NA	NA	NA	<0.048	<5.0
DPT-5	5/9/2013	30	NA	NA	NA	NA	NA	NA	NA	NA	<0.0047	<0.94
DPT-5	5/9/2013	50	NA	NA	NA	NA	NA	NA	NA	NA	<0.0049	<0.98
MW-1	5/9/2013	5	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<50
MW-1	5/9/2013	10	NA	NA	NA	NA	NA	NA	NA	NA	5.2	<200
MW-1	5/9/2013	12	NA	NA	NA	NA	NA	NA	NA	NA	5.3	<400
MW-1	5/9/2013	15	NA	NA	NA	NA	NA	NA	NA	NA	3.2	<100
MW-1	5/9/2013	25	NA	NA	NA	NA	NA	NA	NA	NA	<0.5	<100
MW-2	5/9/2013	7	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<50
MW-2	5/9/2013	10	NA	NA	NA	NA	NA	NA	NA	NA	5.9	<250
MW-2	5/9/2013	12	NA	NA	NA	NA	NA	NA	NA	NA	2.4	<200
MW-2	5/9/2013	17	NA	NA	NA	NA	NA	NA	NA	NA	<0.25	<50
ESL - Shallow Soil Residential, Potential Drinking			0.500	0.077	NA	NA	NA	NA	NA	NA	1.2	NA
ESL-Deep Soil Residential, Potential Drinking			0.500	0.077	NA	NA	NA	NA	NA	NA	1.2	NA

**Table 1:
Soil Analytical Data
2844 Mountain Blvd, Oakland, CA**

Sample ID	Date	Sample Depth (feet)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Sampling Beneath USTs							
SS-1	8/9/2011	NA	<0.25	190	3.7	800	45
SS-2	8/9/2011	NA	0.26	320	4.9	1,400	36
SS-3	8/9/2011	NA	<0.25	250	1.0	1,000	36
SS-4	8/9/2011	NA	<0.25	230	1.6	1,000	39
CS-1-CS-4 Composite	8/9/2011	NA	<0.25	280	2.5	1,100	39
Sampling Beneath Fuel Piping							
T-Junction	8/18/2011	NA	<0.25	260	4.10	890	40
B-1	8/18/2011	NA	<0.25	240	3.00	840	38
B-2	8/18/2011	NA	<0.25	260	5.10	860	39
B-3	8/18/2011	NA	<0.25	260	2.70	900	400
B-4	8/18/2011	NA	<0.25	280	2.50	940	36
D-1	8/18/2011	NA	<0.25	220	2.50	800	35
D-2	8/18/2011	NA	<0.25	280	3.10	980	37
Aug-12							
SB-1	8/31/2012	6	NA	NA	3.60	NA	NA
SB-1	8/31/2012	10	NA	NA	3.20	NA	NA
SB-1	8/31/2012	13	NA	NA	2.70	NA	NA
SB-2	8/31/2012	6	NA	NA	3.80	NA	NA
SB-2	8/31/2012	10	NA	NA	3.80	NA	NA
SB-2	8/31/2012	13	NA	NA	4.70	NA	NA
May-13							
DPT-5	5/9/2013	4	<0.23	NA	NA	1,600	NA
DPT-5	5/9/2013	10	<0.23	NA	NA	1,900	NA
DPT-5	5/9/2013	12	<0.24	NA	NA	1,300	NA
DPT-5	5/9/2013	15	<0.24	NA	NA	1,100	NA
DPT-5	5/9/2013	30	<0.25	NA	NA	910	NA
DPT-5	5/9/2013	50	<0.22	NA	NA	1,100	NA
MW-1	5/9/2013	5	<0.23	NA	NA	1,100	NA
MW-1	5/9/2013	10	<0.24	NA	NA	920	NA
MW-1	5/9/2013	12	<0.23	NA	NA	1,700	NA
MW-1	5/9/2013	15	<0.23	NA	NA	1,300	NA
MW-1	5/9/2013	25	<0.23	NA	NA	780	NA
MW-2	5/9/2013	7	<0.23	NA	NA	820	NA
MW-2	5/9/2013	10	<0.24	NA	NA	1,800	NA
MW-2	5/9/2013	12	<0.23	NA	NA	1,400	NA
MW-2	5/9/2013	17	<0.24	NA	NA	960	NA
ESL - Shallow Soil Residential, Potential Drinking			12	0	80	150	600
ESL-Deep Soil Residential, Potential Drinking			110	2,500	320	2,500	2,500

Note:

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

Y: Sample exhibits chromatographic pattern which does not resemble standard

<: Below laboratory-reporting limit

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Shallow/Deep Soil, Commercial, Groundwater is a current or potential source of drinking water. Revised May 2013

NA: Not Applicable

CPT/DPT-2 Excavated locations

**Table 2:
Grab Groundwater Analytical Data
2844 Mountain Blvd, Oakland, CA**

Sample ID	Date	Depth of Boring at the time of sampling (feet)	Depth to water at the time of sampling (feet)	TPH-d (µg/L)	TPH-g (µg/L)	Benzene (µg/L)	Toluene(µg/L)	Ethylbenzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L)	TBA (µg/L)	TAME (µg/L)	Naphthalene (µg/L)
Perched Discontinuous Water Bearing Zone													
T-1	8/9/2011	NA	11.50	14,000	76,000	1,600	11,000	2,000	10,000	5,700	<1,700	5,600	530
T-2	8/9/2011	NA	11.50	1,500	890	8	7.3	<0.5	157	12	650	<0.5	7.6
CPT/DPT-1-1	3/16/2012	24	23.1	140 ^Y	<6,300	94	64	<63	<63	36,000	2,800	2,300	NA
CPT/DPT-2-1	3/16/2012	24	21.9	820	<13,000	<130	<130	<130	<130	52,000	92,000	3,000	NA
DPT-4-1	3/15/2012	32	29	150 ^Y	<50	<0.5	<0.5	<0.5	<0.5	2,600	28	210	NA
2013													
DPT-5W-1	5/9/2013	15	14	4,300	2,100	10	<6.3	23	<6.3	640	16,000	54	<25
DPT-5W-2	5/10/2013	25	10	630 ^Y	<2,000	<20	<20	<20	<20	40,000	59,000	2,200	<80
First Water Bearing Zone													
CPT/DPT-1-2	3/16/2012	48	41.1	3,200	96,000	2,400	11,000	3,100	14,700	95,000	78,000	7,400	NA
CPT/DPT-2-2	3/16/2012	48	41.9	300 ^Y	4,500	160	390	170	800	11,000	6,100	1,500	NA
DPT-3-2	3/15/2012	49	39	53 ^Y	<1,700	<17	<17	<17	<17	9,800	1,000	690	NA
2013													
DPT-5W-3	5/9/2013	50	39	320 ^Y	<50	<0.5	<0.5	<0.5	<0.5	2.8	<10	<0.5	<2.0
ESL - Potential Drinking Water				100	100	1.0	40.0	30.0	20.0	5.0	12	NA	6.2

Sample ID	Date	Depth of Boring at the time of sampling (feet)	Depth to water at the time of sampling (feet)	Propylbenzene (µg/L)	1,3,5-Trimethylbenzene (µg/L)	1,2,4-Trimethylbenzene (µg/L)	Methanol (mg/L)	Ethanol (mg/L)	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
T-1	8/9/2011	NA	11.50	240	520	1,800	<1.0	<1.0	<5.0	11	39	140	210
T-2	8/9/2011	NA	11.50	<0.5	13	24	<1.0	<1.0	<5.0	6.1	8	43	73
DPT-5W-1	5/9/2013	15	14	NA	NA	NA	NA	<13	<5.0	NA	NA	48	NA
DPT-5W-2	5/10/2013	25	10	NA	NA	NA	NA	<40	<5.0	NA	NA	24	NA
DPT-5W-3	5/9/2013	50	39	NA	NA	NA	NA	<1.0	<5.0	NA	NA	<5.0	NA
ESL - Potential Drinking Water				NA	NA	NA	NA	NA	0.25	50.0	2.5	8.2	81.0

Notes:
< : below Laboratory Detection Limits
NA- Not Applicable

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Shallow/Deep Soil, Commercial, Groundwater is a current or potential source of drinking water, Revised May 2013

**Table 3
Historical Groundwater Analytical Results
2844 Mountain Boulevard, Oakland, CA**

Monitoring Well	Date	Casing Elevation (Ft.)	Depth to Top Fluid (Ft.)	Depth to Groundwater (Ft.)	Free-Product Thickness	Groundwater Elevation	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MtBE µg/L	TBA µg/L	TAME µg/L
RS-1	May-90	675.63	7.20	7.20	0.00	668.43	2,700			370	420	40	320			
	May-91	675.63	8.35	8.35	0.00	667.28	1,300			580	130	62	240			
	Oct-91	675.63	10.22	10.22	0.00	665.41	1,100			140	100	45	210			
	Jan-92	675.63	8.06	8.06	0.00	667.57	1,700			9.9	31	9.7	170			
	Jan-93	675.63	5.30	5.30	0.00	670.33	3,700			650	9.2	51	170			
	Aug-93	675.63	8.56	8.56	0.00	667.07	900			14	0.6	2.1	8			
	Nov-93	675.63	8.44	8.44	0.00	667.19	1,400			9.6	ND	0.9	5			
	Jan-94	675.63	6.88	6.88	0.00	668.75	4,200			95	3.1	58	130			
	May-94	675.63	7.87	7.87	0.00	667.76	7,500			270	11	37	96			
	Aug-94	675.63		16.28	16.28	659.35	130			12	0.5	2.6	5			
	Nov-94	675.63	8.02	8.02	0.00	667.61	270			4.7	0.7	0.6	15			
	Feb-95	675.63	6.51	6.51	0.00	669.12	12,000			81	2.3	1	12			
	Jun-95	675.63	7.34	7.34	0.00	668.29	37,000			460	ND	ND	ND	63,000		
	Nov-95	675.63	8.71	8.71	0.00	666.92	ND			660	16	140	330	31,000		
	Feb-96	675.63	6.95	6.95	0.00	668.68	66,000			110	ND	12	21	84,000		
	9/18/1996	675.63	8.44	8.52	0.08	667.17	1 INCH FLOATING PRODUCT									
	12/11/1996	675.63	6.42	6.62	0.20	669.17	79,000			4,000	37,000	8,000	45,000	220,000		
	2/21/1997	675.63	6.88	6.92	0.04	668.74	1/2 INCH FLOATING PRODUCT									
	5/28/1997	675.63	7.88	7.96	0.08	667.73	156,000			9,400	51,000	7,000	45,000	112,000		
	9/2/1997	675.63	8.34	8.38	0.04	667.28	1/2 INCH FLOATING PRODUCT									
	11/24/1997	675.63	6.98	7.00	0.02	668.65	1/4 INCH FLOATING PRODUCT									
	2/25/1998	675.63	3.51	3.52	0.01	672.12	1/8 INCH FLOATING PRODUCT									
	5/27/1998	675.63	7.31	7.31	0.00	668.32	40,000			2,200	4,000	2,300	19,000	350,000		
	9/16/1998	675.63	8.10	8.10	0.00	667.53	62,000			2,400	2,300	2,100	14,000	250,000		
	11/23/1998	675.63	7.10	7.10	0.00	668.53	99,000			2,600	5,800	2,500	18,000	130,000		
	2/23/1999	675.67	4.82	4.87	0.05	670.84	5/8 INCH FLOATING PRODUCT									
	5/5/1999	675.67	6.86	6.90	0.04	668.80	FLOATING PRODUCT									
	8/24/1999	675.67	7.87	7.90	0.03	667.80	FLOATING PRODUCT									
	2/8/2012	675.67	6.80	6.80	0.00	668.87	60,000 x	8,200 x	<936	790	<6.4	2,000	430	65,000	41,000	5,100
	5/4/2012	675.67	6.57	6.57	0.00	669.10	18,000	10,000	NA	600	<36	2,000	870	22,000	11,000	1,800
8/6/2012	675.67	7.61	7.61	0.00	668.06	16,000	12,000	NA	940	<130	2,000	560	42,000	35,000	3,400	
Well Destroyed October 1, 2012																
RS-2	May-90	689.00	7.06	7.06	0.00	681.94	23,000			7,200	4,800	300	3,300			
	May-91	689.00	7.14	7.14	0.00	681.86	26,000			14,000	1,800	750	2,900			
	Oct-91	688.89	8.84	8.84	0.00	680.05	13,000			4,300	910	300	2,300			
	Jan-92	688.89	7.34	7.34	0.00	681.55	8,300			1,800	920	140	1,700			
	Jan-93	688.89	4.10	4.10	0.00	684.79	41,000			7,000	210	1,200	4,200			
	Aug-93	688.89	7.32	7.32	0.00	681.57	19,000			5,300	62	810	1,600			
	Nov-93	688.89	7.34	7.34	0.00	681.55	9,300			2,400	3.90	46	800			

**Table 3
Historical Groundwater Analytical Results
2844 Mountain Boulevard, Oakland, CA**

Monitoring Well	Date	Casing Elevation (Ft.)	Depth to Top Fluid (Ft.)	Depth to Groundwater (Ft.)	Free-Product Thickness	Groundwater Elevation	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MtBE µg/L	TBA µg/L	TAME µg/L
RS-2 cont.	Jan-94	688.89	5.52	5.52	0.00	683.37	30,000			4,900	ND	880	2,600			
	May-94	675.25	6.40	6.40	0.00	668.85	120,000			3,300	330	ND	2,200			
	Aug-94	675.25			0.00	675.25	510			7.30	3.80	3.50	32			
	Nov-94	675.25	9.82	9.82	0.00	665.43	620			6.60	3.90	1.10	47			
	Feb-95	675.25	4.81	4.81	0.00	670.44	22,000			228	80	2	463			
	Jun-95	675.25	5.80	5.80	0.00	669.45	49,000			1,300	160	200	1,600	71,000		
	Nov-95	675.25	7.64	7.64	0.00	667.61	ND			670	25	150	360	65,000		
	Feb-96	675.25	4.69	4.69	0.00	670.56	75,000			1,400	170	59	460	71,000		
	9/18/1996	675.25	7.34	7.34	0.00	667.91	6,300			2,000	48	350	570	160,000		
	12/11/1996	675.25	5.08	5.08	0.00	670.17	16,000			2,000	840	200	3,200	180,000		
	2/21/1997	675.25	5.42	5.42	0.00	669.83	22,000			2,100	1,300	600	5,100	56,000		
	5/28/1997	675.25	6.40	6.40	0.00	668.85	156,000			4,200	89	1,000	6,900	390,000		
	9/2/1997	675.25	6.93	6.93	0.00	668.32	<50			1,300	25	360	1,400	180,000		
	11/24/1997	675.25	5.93	5.93	0.00	669.32	<50			600	ND	ND	ND	610,000		
	2/25/1998	675.25	4.59	4.59	0.00	670.66	11,000			1,100	<50	320	2,400	330,000		
	5/27/1998	675.25	5.61	5.61	0.00	669.64	13,000			2,000	150	600	2,700	380,000		
	9/16/1998	675.25	6.84	6.84	0.00	668.41	11,000			1,600	20	1,600	1,600	280,000		
	11/23/1998	675.25	6.24	6.24	0.00	669.01	12,000			1,200	84	<5	960	140,000		
	2/23/1999	675.28	4.62	4.62	0.00	670.66	8,800			1,500	650	640	1,500	450,000		
	5/5/1999	675.28	7.55	7.55	0.00	667.73	29,000			2,000	1,300	500	3,700	270,000		
8/24/1999	675.28	6.62	6.62	0.00	668.66	12,000			1,900	20	370	980	340,000			
2/8/2012	675.28	5.52	5.52	0.00	669.76	18,000 x	6,800 x	<378	540	<6.4	120	710	2,800	64,000	420	
5/4/2012	675.28	5.18	5.18	0.00	670.10	16,000	13,000	NA	690	23	460	1,140	6,800	21,000	960	
8/6/2012	675.28	6.33	6.33	0.00	668.95	11,000	10,000	NA	810	<25	210	473	3,300	18,000	580	
Well Destroyed October 1, 2012																
RS-3	May-90	670.00	6.00	6.00	0.00	664.00	330			2	1	1	150			
	May-91	670.00	6.76	6.76	0.00	663.24	ND			0.40	ND	0.80	8			
	Oct-91	670.00	8.98	8.98	0.00	661.02	ND			ND	ND	ND	ND			
	Jan-92	670.00	6.81	6.81	0.00	663.19	ND			2.20	7.20	0.60	4			
	Jan-93	670.00	4.05	4.05	0.00	665.95	ND			ND	ND	ND	ND			
	Aug-93	670.00	7.19	7.19	0.00	662.81	ND			30	6	2.40	5			
	Nov-93	670.00	7.12	7.12	0.00	662.88	ND			4.80	0.40	0.60	2			
	Jan-94	670.00	5.42	5.42	0.00	664.58	330			25	3.20	3.90	12			
	May-94	676.20	5.78	5.78	0.00	670.42	670			34	4	28	70			
	Aug-94	676.20	5.86	5.86	0.00	670.34	ND			ND	ND	ND	ND			
	Nov-94	676.20	5.08	5.08	0.00	671.12	69			2.50	3.10	1	4			
	Feb-95	676.20	4.51	4.51	0.00	671.69	ND			0.30	0.40	ND	1			
	Jun-95	676.20	5.29	5.29	0.00	670.91	ND			ND	ND	ND	ND	66		
	Nov-95	676.20	7.10	7.10	0.00	669.10	ND			ND	ND	ND	ND	44		

Table 3
Historical Groundwater Analytical Results
2844 Mountain Boulevard, Oakland, CA

Monitoring Well	Date	Casing Elevation (Ft.)	Depth to Top Fluid (Ft.)	Depth to Groundwater (Ft.)	Free-Product Thickness	Groundwater Elevation	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MtBE µg/L	TBA µg/L	TAME µg/L
RS-3 cont.	Feb-96	676.20	4.48	4.48	0.00	671.72	120			ND	ND	ND	ND	110		
	9/18/1996	676.20	6.92	6.92	0.00	669.28	1,000			13	8.60	10	17	33		
	12/11/1996	676.20	4.90	4.90	0.00	671.30	85			20	2	<0.5	14	4,700		
	2/21/1997	676.20	4.94	4.94	0.00	671.26	120			5	2	2	6	850		
	5/28/1997	676.20	7.92	7.92	0.00	668.28	<50			6	<0.5	<0.5	<2	2,400		
	9/2/1997	676.20	6.60	6.60	0.00	669.60	<50			0.90	<0.5	<0.5	<2	8,600		
	11/24/1997	676.20	5.89	5.89	0.00	670.31	140			13	2	1	12	3,600		
	2/25/1998	676.20	4.29	4.29	0.00	671.91	<50			<0.5	<0.5	<0.5	4	850		
	5/27/1998	676.20	5.01	5.01	0.00	671.19	<50			7	<0.5	<0.5	11	940		
	9/16/1998	676.20	6.21	6.21	0.00	669.99	<50			2	2	2	10	670		
	11/24/1998	676.20	5.58	5.58	0.00	670.62	85			9	23	<0.5	19	180		
	2/24/1999	676.23	4.30	4.30	0.00	671.93	<50			<0.5	0.90	<0.5	<1.0	150		
	5/5/1999	676.23	4.92	4.92	0.00	671.31	<50			1	2	1	6	130		
	8/24/1999	676.23	6.64	6.64	0.00	669.59	80			0.80	<0.5	0.60	<1	300		
	2/8/2012	676.23	5.72	5.72	0.00	670.51	130 x	<42	<94	<0.13	0.59	2.90	18.1	7.9	<1.5	<0.17
	5/4/2012	676.23	5.25	5.25	0.00	670.98	<50	330 Y	NA	<0.5	<0.5	<0.5	<0.5	10	18	2.4
	8/6/2012	676.23	6.65	6.65	0.00	669.58	<50	390 Y	NA	<0.5	<0.5	<0.5	<0.5	13	<10	3.2
	3/29/2013	676.23	6.01	6.01	0.00	670.22	<50	90 Y	NA	<0.5	<0.5	<0.5	<0.5	3.6	<10	<0.5
6/6/2013	676.08	6.45	6.45	6.45	0.00	669.63	<50	66 Y	NA	<0.5	<0.5	<0.5	<0.5	1.5	<10	<0.5
RS-4	May-90	675.38	8.34	8.34	0.00	667.04	440			9	11	9	49			
	May-91	675.38	9.50	9.50	0.00	665.88	ND			8	4	3	5			
	Oct-91	675.38	10.82	10.82	0.00	664.56	830			280	120	24	170			
	Jan-92	675.38	9.31	9.31	0.00	666.07	620			34	8.30	2.10	21			
	Jan-93	675.38	6.89	6.89	0.00	668.49	150			32	1.70	5.80	13			
	Aug-93	675.38	9.68	9.68	0.00	665.70	ND			0.90	0.70	ND	0			
	Nov-93	675.38	9.83	9.83	0.00	665.55	ND			ND	ND	ND	ND			
	Jan-94	675.38	8.17	8.17	0.00	667.21	ND			1.70	ND	0.81	2			
	May-94	675.38	8.69	8.69	0.00	666.69	ND			ND	ND	ND	1			
	Aug-94	675.38	9.04	9.04	0.00	666.34	420			6.50	4.10	1.90	40			
	Nov-94	675.38	8.00	8.00	0.00	667.38	130			4.10	0.70	1.70	8			
	Feb-95	675.38	7.93	7.93	0.00	667.45	ND			6	1.20	3.50	13			
	Jun-95	675.38	8.61	8.61	0.00	666.77	ND			ND	ND	ND	ND	69		
	Nov-95	675.38	10.43	10.43	0.00	664.95	ND			ND	ND	ND	ND	47		
	Feb-96	675.38	7.44	7.44	0.00	667.94	960			ND	ND	0.60	ND	80		
	9/18/1996	675.38	9.58	9.58	0.00	665.80	<50			<0.5	<0.5	<0.5	<2	200		
	12/11/1996	675.38	7.50	7.50	0.00	667.88	75			<0.5	0.60	<0.5	<0.5	104		
	2/21/1997	675.38	8.26	8.26	0.00	667.12	<50			1	1	<0.5	1	190		
	5/28/1997	675.38	8.92	8.92	0.00	666.46	<50			6	<0.5	<0.5	<2	110		
	9/2/1997	675.38	9.39	9.39	0.00	665.99	100			3	<0.5	<0.5	<2	39		
11/24/1997	675.38	8.22	8.22	0.00	667.16	41			<0.5	2	<0.5	<2	210			

**Table 3
Historical Groundwater Analytical Results
2844 Mountain Boulevard, Oakland, CA**

Monitoring Well	Date	Casing Elevation (Ft.)	Depth to Top Fluid (Ft.)	Depth to Groundwater (Ft.)	Free-Product Thickness	Groundwater Elevation	TPH-g µg/L	TPH-d µg/L	TPH-mo µg/L	Benzene µg/L	Toluene µg/L	Ethylbenzene µg/L	Xylenes µg/L	MtBE µg/L	TBA µg/L	TAME µg/L
RS-4 cont.	2/25/1998	675.38	7.19	7.19	0.00	668.19	<50			3	<0.5	<0.5	<1	5,600		
	5/27/1998	675.38	8.40	8.40	0.00	666.98	<50			<0.5	<0.5	<0.5	<1	2,400		
	9/16/1998	675.38	9.26	9.26	0.00	666.12	<50			<0.5	<0.5	<0.5	<1	230		
	11/24/1998	675.38	8.50	8.50	0.00	666.88	<50			2	<0.5	<0.5	<1	100		
	2/24/1999	675.42	7.20	7.20	0.00	668.22	<50			2	3	0.80	5	670		
	5/5/1999	675.42	8.37	8.37	0.00	667.05	100			<0.5	<0.5	<0.5	<1	440		
	8/24/1999	675.42	8.36	8.36	0.00	667.06	<50			<0.5	<0.5	<0.5	<1	<500		
	2/8/2012	675.42	8.11	8.11	0.00	667.31	140,000	130,000 x	<9,360	120	2,600	4,700	28,200	28,000	100,000	1,800
	5/4/2012	675.42	8.31	8.31	0.00	667.11	67,000	12,000 Y	NA	61	900	2,100	9,700	32,000	69,000	1,700
	8/6/2012	675.42	9.01	9.01	0.00	666.41	49,000	8,900	NA	<130	350	1,700	8,100	19,000	90,000	1,300
	3/29/2013	675.42	8.49	8.49	0.00	666.93	14,000	14,000	NA	<100	<100	440	1,340	14,000	110,000	590
6/6/2013	675.27	8.48	8.48	0.00	666.79	12,000	7,200	NA	11	<3.6	420	886	16,000	66,000	970	
MW-1	6/6/13	674.92	6.03	6.03	0.00	668.89	<17,000	13,000	NA	930	370	470	1,760	55,000	32,000	7,200
MW-2	6/6/13	675.02	6.70	6.70	0.00	668.32	16,000	5,400	NA	910	<130	610	2,290	59,000	64,000	7,700
ESLs (µg/L)	Ground-water						100	100	100	1.00	40	30	20	5.00	12	NL
	Vapor Intrusion						NV	NV	NV	27	95,000	310	37,000	9,900	NV	NL

Note:

< : Below Laboratory Reporting Limit (Method Detection Limit)

x : Does not match pattern of reference Gasoline standard/ Not typical of diesel standard pattern (possibly fuel lighter than diesel)

ESL: Environmental Screening Level by California Regional Water Quality Control Board San Francisco Bay Region
revised May 2013 (Table-F1a, groundwater is a current or potential drinking water source)

NL: Not Listed

NV: No Value

APPENDIX A

DRILLING PERMIT

Alameda County Public Works Agency - Water Resources Well Permit



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

Application Approved on: 04/25/2013 By jamesy

Permit Numbers: W2013-0328 to W2013-0330
Permits Valid from 05/09/2013 to 05/10/2013

Application Id: 1366912737136
Site Location: 2844 Mountain Blvd.
Project Start Date: 05/09/2013
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland

Completion Date:05/10/2013

Applicant: SOMA Environmental Engineering - Mansour Sepehr
6620 Owens Drive, Suite A, Pleasanton, CA 94588
Phone: 925-734-6400

Property Owner: Tejindar Singh
6400 Dublin Blvd., Dublin, CA 94568
Phone: 925-360-7777

Client: ** same as Property Owner **
Contact: Lizzie Hightower
Phone: 925-734-6400
Cell: 925-330-5235

Receipt Number: WR2013-0152	Total Due:	\$1059.00
Payer Name : Mansour Sepehr	Total Amount Paid:	\$1059.00
	Paid By: MC	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: Gregg Drilling & Testing - Lic #: 485165 - Method: hstem

Work Total: \$794.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2013-0328	04/25/2013	08/07/2013	MW-1	10.00 in.	4.00 in.	5.00 ft	25.00 ft
W2013-0329	04/25/2013	08/07/2013	MW-2	10.00 in.	4.00 in.	5.00 ft	25.00 ft

Specific Work Permit Conditions

1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.

2. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

3. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

Alameda County Public Works Agency - Water Resources Well Permit

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Include permit number and site map.
5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.
6. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.
7. Minimum surface seal thickness is two inches of cement grout placed by tremie.
8. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.
9. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

Borehole(s) for Investigation-Contamination Study - 2 Boreholes

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

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2013-0330	04/25/2013	08/07/2013	2	3.25 in.	70.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site. The containers shall be clearly labeled to the ownership of the container and labeled hazardous or non-hazardous.
2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.
3. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities

Alameda County Public Works Agency - Water Resources Well Permit

or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact Steve Miller for an inspection time at (510) 670-5517 or email to stevem@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

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

APPENDIX B
BORING LOGS,
WELL COMPLETION REPORTS

PROJECT: 5082

DATE DRILLED: May 9, 2013

SITE LOCATION: 2844 Mountain Blvd., Oakland

CASING ELEVATION: NA

DRILLER: Gregg Drilling & Testing

First Encountered GW: 1st: 13.0 ft; 2nd: 23.0 ft; 3rd: 45.0 ft
Stablized GW: 1st: 13.07 ft; 2nd: 10.37 ft; 3rd: 39.00 ft

DRILLING METHOD: Direct Push

T.O.C. TO SCREEN: NA

BORING DIAMETER: 2.25-inch

SCREEN LENGTH: NA

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
			CL	Hand Augered to 5 ft bgs SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, no Petroleum Hydrocarbon (PHC) odor.					
	5		SC	CLAYEY SAND: Greenish-brown, moist, ~75% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.					
			CL	SANDY LEAN CLAY: Greenish-brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.					
	10		SC	CLAYEY SAND: Greenish-gray, moist, ~75% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.					
				As above, very moist to wet, some gravel					
	15		CL	SANDY LEAN CLAY with gravel: Brown, moist, ~30% fine- to medium-grained sand, ~15% gravel, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, no PHC odor.					
	20		CL	SANDY LEAN CLAY: Brown, moist, ~40% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, no PHC odor.					
				Very moist to wet & some gravel at 23 ft.					

COMMENTS:

PROJECT: 5082

DATE DRILLED: May 9, 2013

SITE LOCATION: 2844 Mountain Blvd., Oakland

CASING ELEVATION: NA

DRILLER: Gregg Drilling & Testing

First Encountered GW: 1st: 13.0 ft; 2nd: 23.0 ft; 3rd: 45.0 ft
Stablized GW: 1st: 13.07 ft; 2nd: 10.37 ft; 3rd: 39.00 ft

DRILLING METHOD: Direct Push


T.O.C. TO SCREEN: NA

BORING DIAMETER: 2.25-inch

SCREEN LENGTH: NA

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	3.6		CL	SANDY LEAN CLAY: Brown, moist, ~40% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, hard, no PHC odor. Some gravel at 28 ft.					
	1.4		30	CL	SANDY LEAN CLAY: Dark gray, moist, ~40% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, hard, no PHC odor.				
	1.3								
	1.1			35					
	1.2						▼		
	1.1			40					
	0.8								
	0.9			45			▼		
	0.5								
	0.6			50					

COMMENTS: Refusal at 50 ft

PROJECT: 5082

DATE DRILLED: May 9 & 10, 2013

SITE LOCATION: 2844 Mountain Blvd., Oakland

CASING ELEVATION: 674.92 ft

DRILLER: Gregg Drilling & Testing

First Encountered GW: 13 ft
Stablized GW: 6.03 ft

DRILLING METHOD: DP & HSA


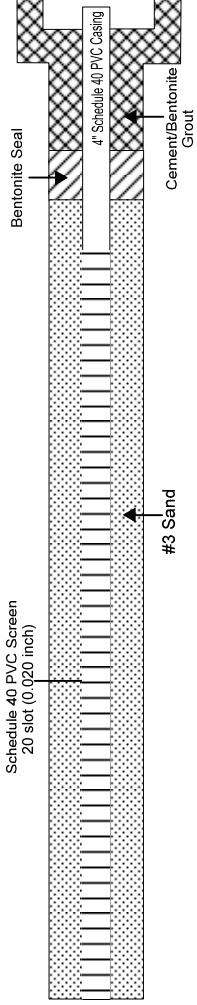
T.O.C. TO SCREEN: 5 ft.

BORING DIAMETER: 10 inches

SCREEN LENGTH: 15 ft

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
25.2			CL	Hand Augered to 5 ft bgs SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, no Petroleum Hydrocarbon (PHC) odor.				
679	5		CL	SANDY LEAN CLAY: Greenish-brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.		▼		
555								
749	10		SC	CLAYEY SAND: Greenish-gray, moist, ~75% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor. As above, very moist to wet.		▼		
723								
931	15		CL	SANDY LEAN CLAY with gravel: Brown, moist, ~30% fine- to medium-grained sand, ~15% gravel, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.				
875								
139.4	20		CL	SANDY LEAN CLAY: Brown, moist, ~40% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, slight PHC odor. Very moist to wet & some gravel at 23 ft.				
68.5	25							

COMMENTS: Well set at 20 feet

PROJECT: 5082

DATE DRILLED: May 9 & 10, 2013

SITE LOCATION: 2844 Mountain Blvd., Oakland

CASING ELEVATION: 675.02 ft

DRILLER: Gregg Drilling & Testing

First Encountered GW: 13 ft
Stablized GW: 6.70 ft

DRILLING METHOD: DP & HSA

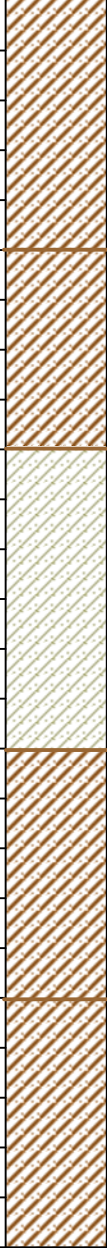
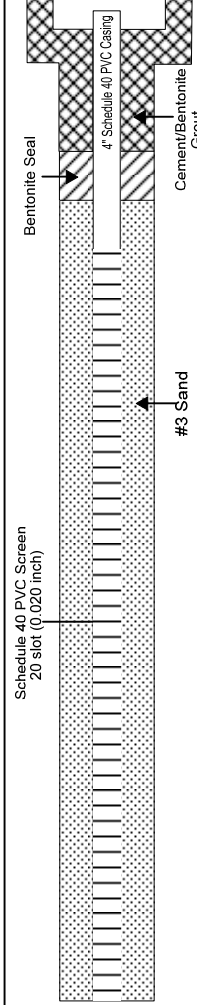
T.O.C. TO SCREEN: 5 ft.

BORING DIAMETER: 10 inches

SCREEN LENGTH: 15 ft

LOGGED BY: E. Hightower

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	107.1		CL	Hand Augered to 5 ft bgs SANDY LEAN CLAY: Dark brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, no Petroleum Hydrocarbon (PHC) odor.				
	5		CL	SANDY LEAN CLAY: Greenish-brown, moist, ~30% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.		▼		
	752		SC	CLAYEY SAND: Greenish-gray, moist, ~75% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.				
	1015			As above, very moist to wet.		▼		
	950							
	15		CL	SANDY LEAN CLAY with gravel: Brown, moist, ~30% fine- to medium-grained sand, ~15% gravel, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, PHC odor.				
	216.5							
	20		CL	SANDY LEAN CLAY: Brown, moist, ~40% fine- to medium-grained sand, medium dry strength, no dilatancy, medium toughness, no HCl reaction, firm, slight PHC odor.				
	121.6							
	25.7			Very moist to wet & some gravel at 23 ft.				
	25							

COMMENTS: Well set at 20 feet

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX C

LABORATORY REPORTS AND CHAIN OF CUSTODY FORMS



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

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

Laboratory Job Number 245203
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. Project : 5082
6620 Owens Dr. Location : 2844 Mountain Blvd, Oakland
Pleasanton, CA 94588 Level : II

Table with 2 columns: Sample ID and Lab ID. Lists various sample and lab identifiers such as DPT-5@4FT, MW-1@5FT, etc.

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.

Handwritten signature of Will S Rice

Signature: _____

Date: 05/31/2013

Will S Rice
Project Manager
(510) 486-0900

CASE NARRATIVE

Laboratory number: 245203
Client: SOMA Environmental Engineering Inc.
Project: 5082
Location: 2844 Mountain Blvd, Oakland
Request Date: 05/10/13
Samples Received: 05/10/13

This data package contains sample and QC results for fifteen soil samples and three water samples, requested for the above referenced project on 05/10/13. The samples were received cold and intact.

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

High surrogate recovery was observed for bromofluorobenzene (FID) in MW-2@10FT (lab # 245203-015). No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Water:

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B) Soil:

Matrix spikes QC688617, QC688618 (batch 198466) were not reported because the parent sample required a dilution that would have diluted out the spikes. A number of samples were prepared outside of hold time; affected data was qualified with "b". No other analytical problems were encountered.

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

DPT-5W-3 (lab # 245203-022) had pH greater than 2. No other analytical problems were encountered.

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

High response was observed for 1,2-dichloroethane in the CCV analyzed 05/17/13 18:34; affected data was qualified with "b". Low response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 05/25/13 19:14; this analyte met minimum response criteria, and affected data was qualified with "b". Low response was observed for tert-butyl alcohol (TBA) in the CCV analyzed 05/28/13 07:42; this analyte met minimum response criteria, and affected data was qualified with "b". Matrix spikes were not performed for this analysis in batch 198577 due to insufficient sample amount. Matrix spikes were not performed for this analysis in batch 198509 due to limited sample volume or interferences from the solvent in sample dilutions. Matrix spikes QC688437, QC688438 (batch 198415) were not reported because the parent sample was reanalyzed in another batch. Matrix spikes were not performed for this analysis in batch 198634 due to limited sample volume or interferences from the solvent in sample dilutions. Matrix spikes were not performed for this analysis in batch 198559 due to insufficient sample amount. High recoveries were observed for benzene in the MS/MSD for batch 198951; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPD was within limits, and this analyte was not detected at or above the RL in the associated samples. Low surrogate recoveries were

CASE NARRATIVE

Laboratory number: 245203
Client: SOMA Environmental Engineering Inc.
Project: 5082
Location: 2844 Mountain Blvd, Oakland
Request Date: 05/10/13
Samples Received: 05/10/13

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

observed for 1,2-dichloroethane-d4 in the BS/BSD for batch 198945. A number of samples were analyzed outside of hold time; affected data was qualified with "b". DPT-5@10FT (lab # 245203-002) and DPT-5@12FT (lab # 245203-003) were diluted due to high hydrocarbons. No other analytical problems were encountered.

Metals (EPA 6010B) Soil:

No analytical problems were encountered.

Metals (EPA 6010B) Filtrate:

No analytical problems were encountered.

CHAIN OF CUSTODY

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 ENVIRONMENTAL ANALYTICAL TESTING LABORATORY
 In Business Since 1878

Page 1 of 2

Chain of Custody # _____

2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

C&T LOGIN # 245203

Project No: 5082

Sampler: Lizzie Hightower

Project Name: 2844 Mountain Blvd, Oakland

Report To: Joyce Bibek

Project P. O. No:

Company: SOMA Environmental

EDD Format: Report Level II III IV

Telephone: 925-734-6400

Turnaround Time: RUSH Standard

Email: jibek@somaenv.com

ANALYTICAL REQUEST

	ANALYTICAL REQUEST			
	TPH-g, TPH-d 8015			
	BTEX 8260 MTBE 8260			
	Gas Ox + Pb Scavengers 8260			
	Cadmium, Nickel 6010			
X	X	X	X	*Hold*
X	X	X	X	
X	X	X	X	
X	X	X	X	
X	X	X	X	*Hold*
X	X	X	X	
X	X	X	X	*Hold*
X	X	X	X	
X	X	X	X	*Hold*
X	X	X	X	
X	X	X	X	

Lab No.	Sample ID.	SAMPLING		MATRIX	# of Containers	CHEMICAL PRESERVATIVE				
		Date Collected	Time Collected			HCl	H2SO4	HNO3	NaOH	None
1	DPT-5@ 4 ft	5/9/13	9:45	X						X
2	DPT-5@ 10 ft		10:08	X						X
3	DPT-5@ 12 ft		10:17	X						X
4	DPT-5@ 15 ft		10:22	X						X
5	DPT-5@ 20 ft		10:44	X						X
6	DPT-5@ 30 ft		10:49	X						X
7	DPT-5@ 45 ft		11:07	X						X
8	DPT-5@ 50 ft		11:09	X						X
9	MW-1@ 5 ft		14:08	X						X
10	MW-1@ 10 ft		14:11	X						X
11	MW-1@ 12 ft		14:31	X						X
12	MW-1@ 15 ft		15:05	X						X
13	MW-1@ 25 ft		15:10	X						X

Notes: EDF Output Required
 Gas Ox + Pb Scavengers:
 TBA, ETBE, DIPE,
 TAME, 1,2-DCA, EDB,
 naphthalene, ethanol
 * Lab Filter water
 for cadmium + nickel *

SAMPLE RECEIPT
 Intact
 Cold
 On Ice
 Ambient

RELINQUISHED BY:

[Signature]

DATE: 5/10/13 TIME: 2:45
 DATE: TIME:
 DATE: TIME:

RECEIVED BY:

[Signature]

DATE: 5/10/13 TIME: 2:45
 DATE: TIME:
 DATE: TIME:

4 of 107

CHAIN OF CUSTODY



2323 Fifth Street
 Berkeley, CA 94710

Phone (510) 486-0900
 Fax (510) 486-0532

C&T LOGIN # 245203

Project No: 5082

Sampler: Lizzie Hightower

Project Name: 2844 Mountain Blvd, Oakland

Report To: Joyce Bobek

Project P. O. No:

Company: SOMA Environmental

EDD Format: Report Level II III IV

Telephone: 925-734-6400

Turnaround Time: RUSH Standard

Email: jbobek@somaenv.com

ANALYTICAL REQUEST											
Lab No.	Sample ID.	Date Collected	Time Collected	Water	Solid	# of Containers	HCl	H2SO4	HNO3	NaOH	None
14	MW-2 @ 7 ft	5/9/13	15:32	X		1					X
15	MW-2 @ 10 ft	5/9/13	15:35	X		1					X
16	MW-2 @ 12 ft	5/9/13	15:42	X		1					X
17	MW-2 @ 17 ft	5/9/13	15:58	X		1					X
18	MW-2 @ 20 ft	5/9/13	16:02	X		1					X
19	MW-2 @ 25 ft	5/9/13	15:55	X		1					X
20	DPT-SW-1	5/9/13	12:17	X		7	X				X
21	DPT-SW-2	5/10/13	8:00	X		7	X				X
22	DPT-SW-3	5/9/13	11:50	X		7	X				X

TPH-g, TPH-d 8015
 BTEX, mBE 8260
 Gas Ox + Pb Scavengers 8260
 Cadmium, Nickel 6010
 TPH-g, BTEX, mBE 8260
 TPH-d 8015
 Gas Ox + Pb Scavengers 8260
 Dissolved Cadmium + Nickel 6010

Notes: EDF Output Required
 Gas Ox + Pb Scavengers;
 TBA, ETBE, DIPE, TAME,
 1,2-DCA, EDB, Naphthalene;
 Ethanol

SAMPLE RECEIPT
 Intact
 Cold
 On Ice
 Ambient

* Lab Filter Water for Cadmium + Nickel *

RELINQUISHED BY:
E. H. [Signature]
 DATE: 5/10/13 TIME: 2:45

DATE: TIME:

DATE: TIME:

RECEIVED BY:
[Signature]
 DATE: 5/10/13 TIME: 2:45

DATE: TIME:

DATE: TIME:

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 245203 Date Received 5/10/13 Number of coolers 1
Client SJMA Project 2844 MOUNTAIN BLD

Date Opened 5/10 By (print) P.S. (sign) P.S.
Date Logged in [initials] By (print) [initials] (sign) [signature]

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) 5.0

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

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Field ID: DPT-5@4FT Diln Fac: 1.000
 Type: SAMPLE Batch#: 198811
 Lab ID: 245203-001 Analyzed: 05/23/13

Analyte	Result	RL
Gasoline C7-C12	3.7 Y	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	64-139

Field ID: DPT-5@10FT Diln Fac: 100.0
 Type: SAMPLE Batch#: 198462
 Lab ID: 245203-002 Analyzed: 05/15/13

Analyte	Result	RL
Gasoline C7-C12	90 Y	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	124	64-139

Field ID: DPT-5@12FT Diln Fac: 100.0
 Type: SAMPLE Batch#: 198462
 Lab ID: 245203-003 Analyzed: 05/15/13

Analyte	Result	RL
Gasoline C7-C12	56 Y	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	119	64-139

Field ID: DPT-5@15FT Diln Fac: 1.000
 Type: SAMPLE Batch#: 198462
 Lab ID: 245203-004 Analyzed: 05/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-139

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Field ID:	DPT-5@30FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-006	Analyzed:	05/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.96

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-139

Field ID:	DPT-5@50FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-008	Analyzed:	05/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-139

Field ID:	MW-1@5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198811
Lab ID:	245203-009	Analyzed:	05/23/13

Analyte	Result	RL
Gasoline C7-C12	3.9	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	64-139

Field ID:	MW-1@10FT	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-010	Analyzed:	05/15/13

Analyte	Result	RL
Gasoline C7-C12	750	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	132	64-139

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Field ID:	MW-1@12FT	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-011	Analyzed:	05/15/13

Analyte	Result	RL
Gasoline C7-C12	910	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	137	64-139

Field ID:	MW-1@15FT	Diln Fac:	166.7
Type:	SAMPLE	Batch#:	198811
Lab ID:	245203-012	Analyzed:	05/23/13

Analyte	Result	RL
Gasoline C7-C12	460	33

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	64-139

Field ID:	MW-1@25FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-013	Analyzed:	05/14/13

Analyte	Result	RL
Gasoline C7-C12	2.0	0.96

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	64-139

Field ID:	MW-2@7FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198811
Lab ID:	245203-014	Analyzed:	05/23/13

Analyte	Result	RL
Gasoline C7-C12	7.2 Y	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	115	64-139

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Field ID:	MW-2@10FT	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-015	Analyzed:	05/15/13

Analyte	Result	RL
Gasoline C7-C12	960	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	149 *	64-139

Field ID:	MW-2@12FT	Diln Fac:	100.0
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-016	Analyzed:	05/15/13

Analyte	Result	RL
Gasoline C7-C12	270	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	124	64-139

Field ID:	MW-2@17FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	198462
Lab ID:	245203-017	Analyzed:	05/14/13

Analyte	Result	RL
Gasoline C7-C12	ND	0.99

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	114	64-139

Type:	BLANK	Batch#:	198462
Lab ID:	QC688562	Analyzed:	05/14/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-139

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Type:	BLANK	Batch#:	198811
Lab ID:	QC689990	Analyzed:	05/22/13
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	64-139

*= Value outside of QC limits; see narrative
 Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC688561	Batch#:	198462
Matrix:	Soil	Analyzed:	05/14/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.090	109	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	116	64-139

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	245147-001	Batch#:	198462
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/09/13
Basis:	as received	Analyzed:	05/14/13

Type: MS Lab ID: QC688565

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	<0.05388	10.75	8.870	82	42-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	64-139

Type: MSD Lab ID: QC688566

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.87	8.868	82	42-120	1	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	117	64-139

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC689986	Batch#:	198811
Matrix:	Soil	Analyzed:	05/22/13
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.000	100	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	64-139

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	245505-011	Batch#:	198811
Matrix:	Soil	Sampled:	05/22/13
Units:	mg/Kg	Received:	05/22/13
Basis:	as received	Analyzed:	05/23/13

Type: MS Lab ID: QC690103

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.2179	10.87	6.005	53	42-120

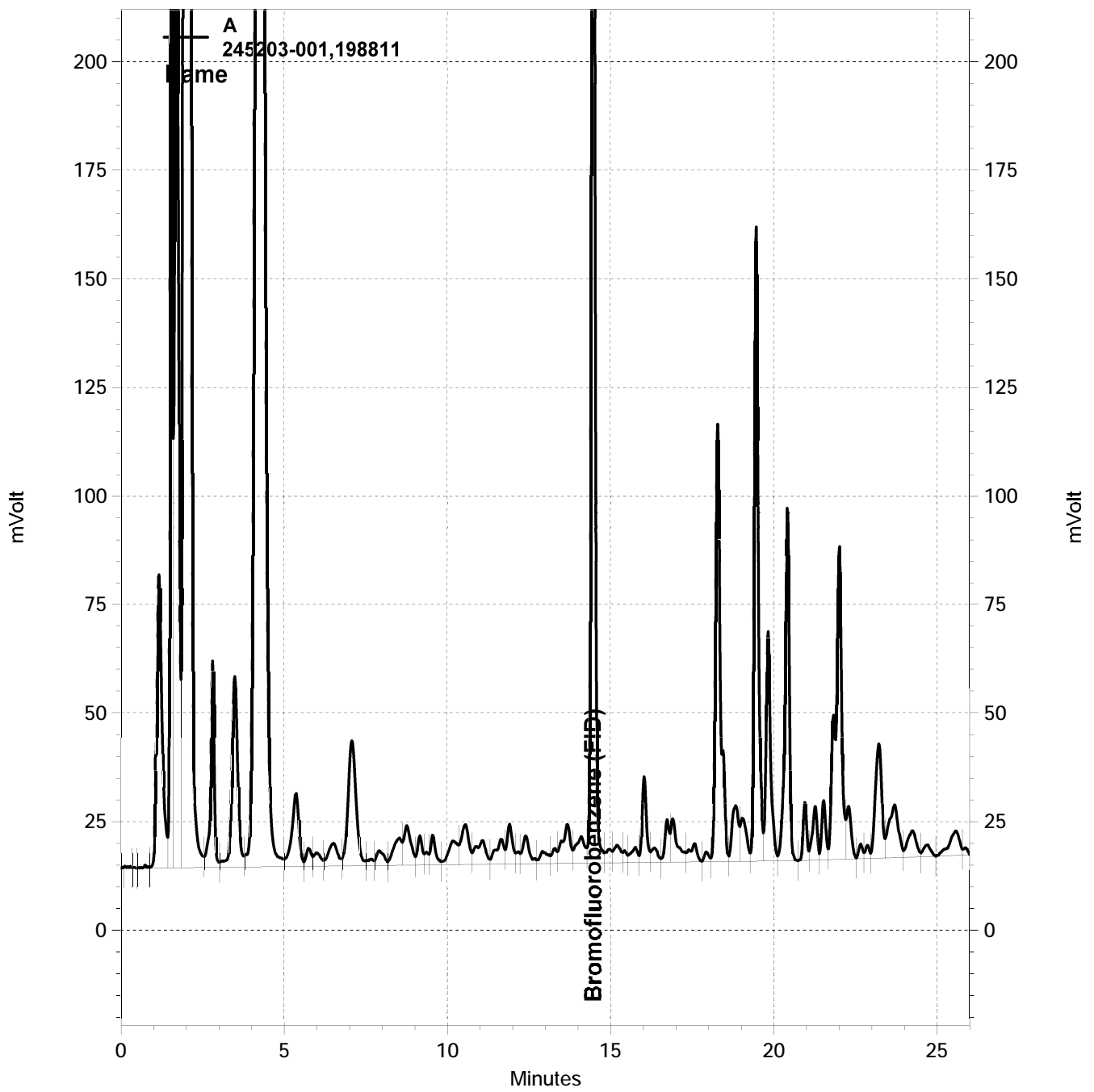
Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	64-139

Type: MSD Lab ID: QC690104

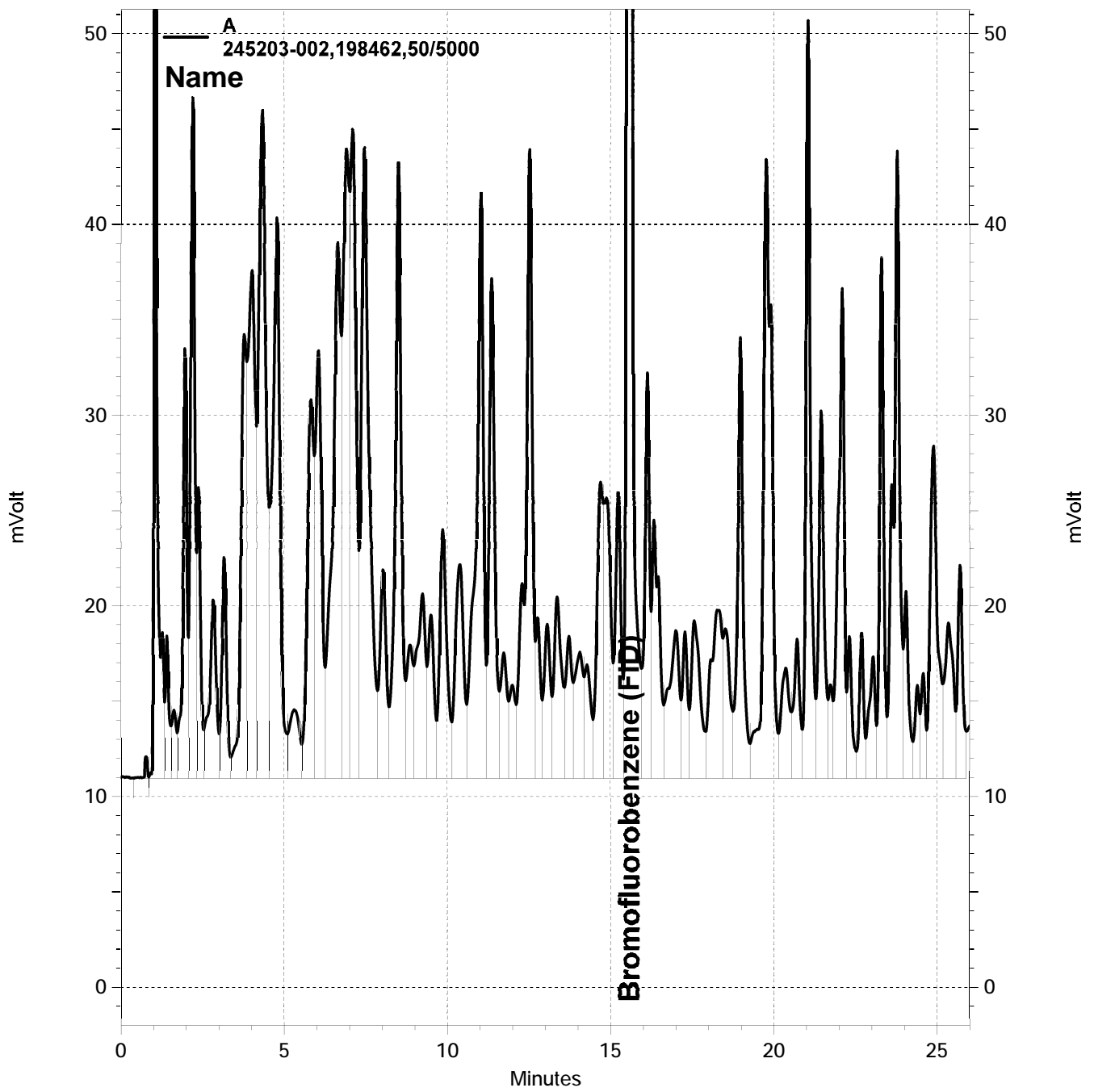
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.75	5.630	50	42-120	5	42

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	64-139

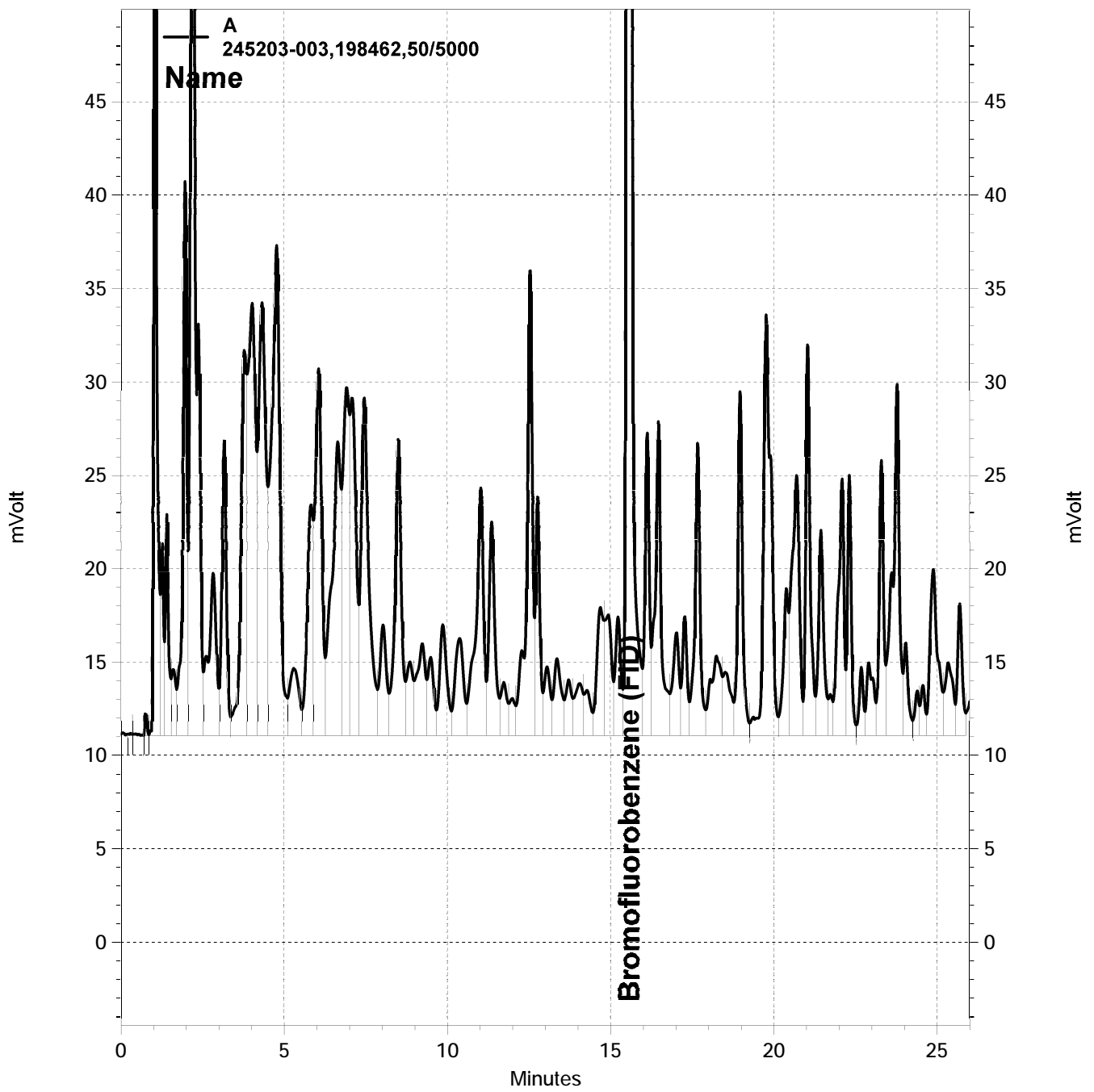
RPD= Relative Percent Difference



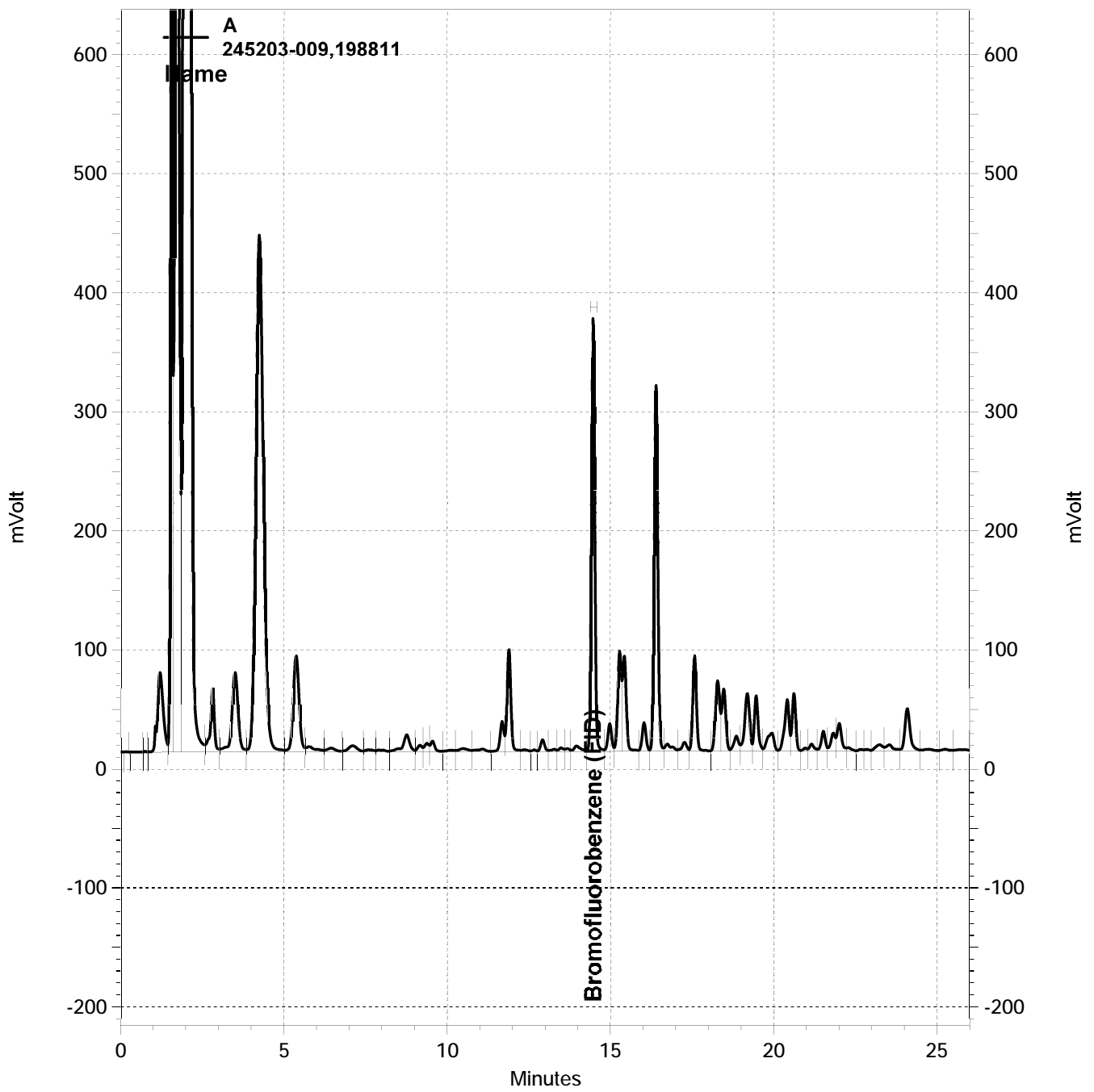
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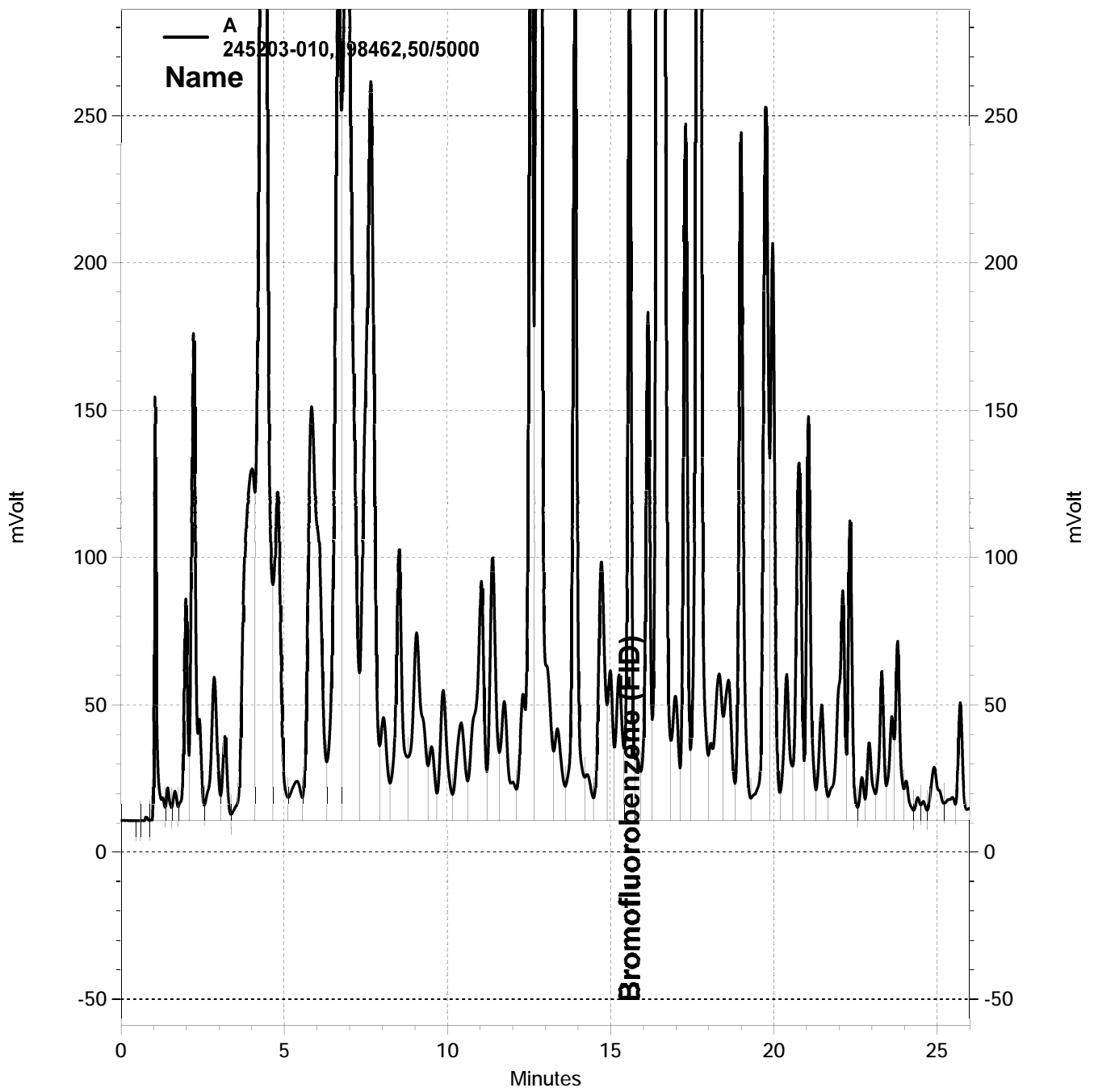
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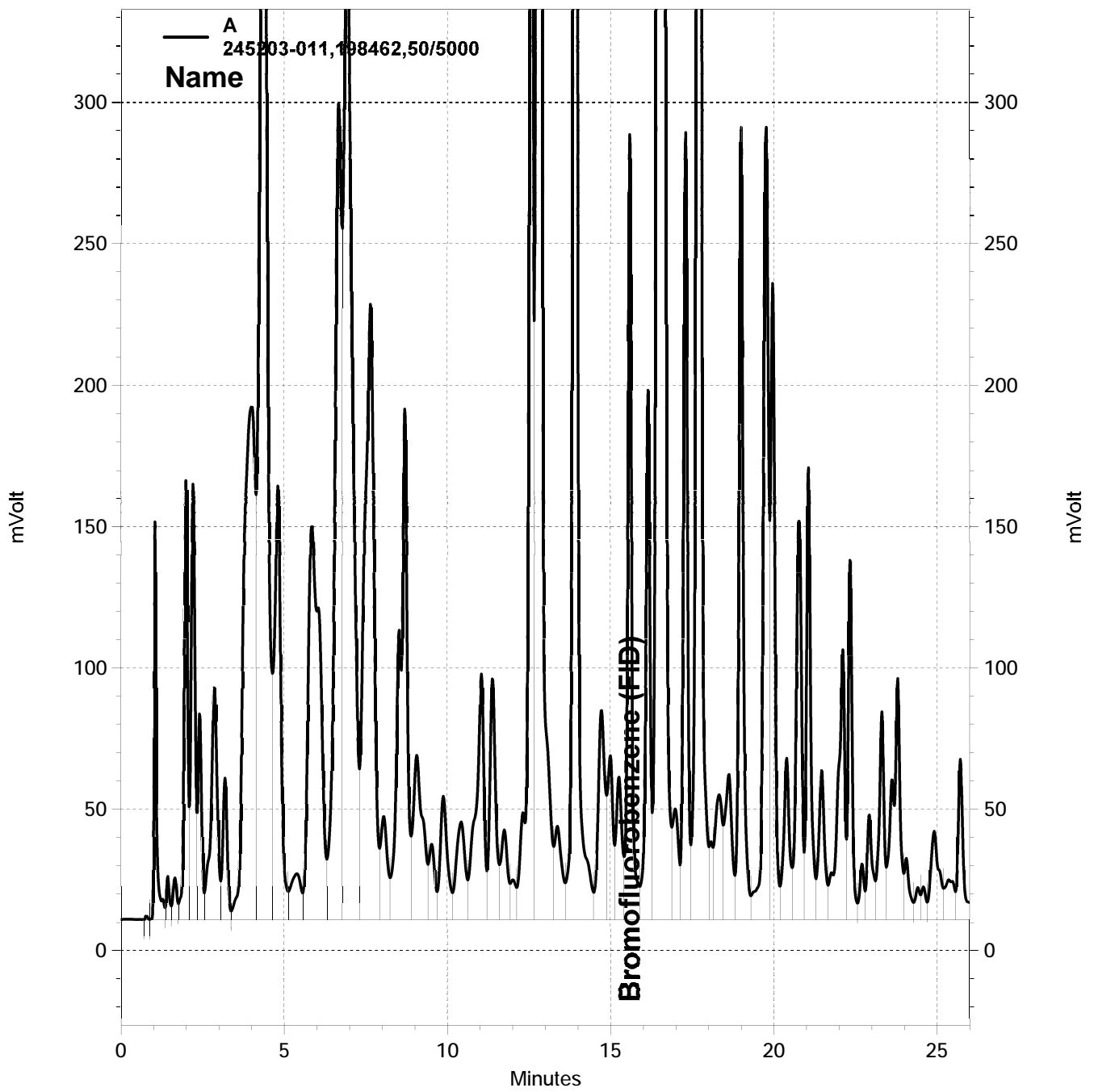
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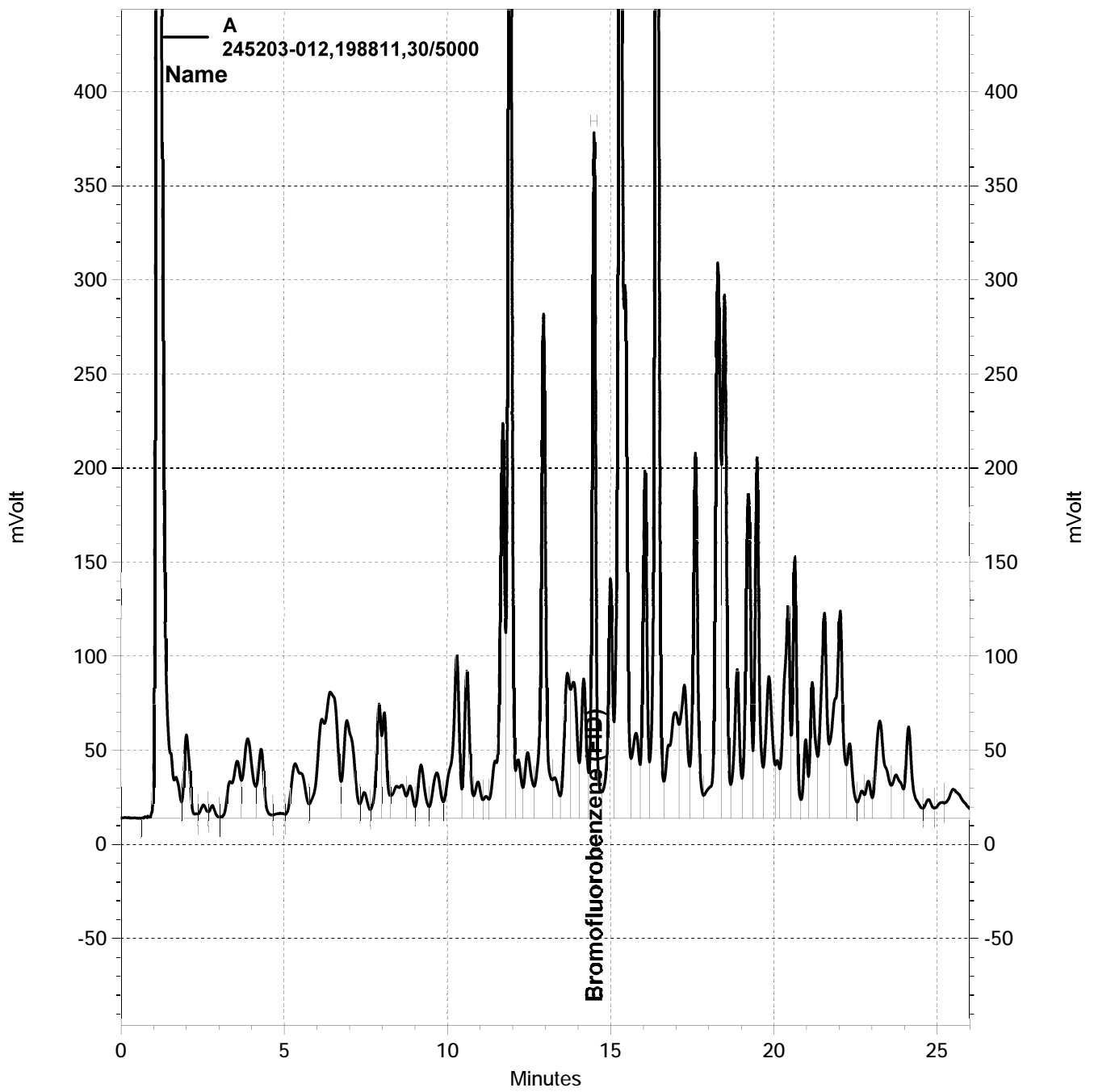
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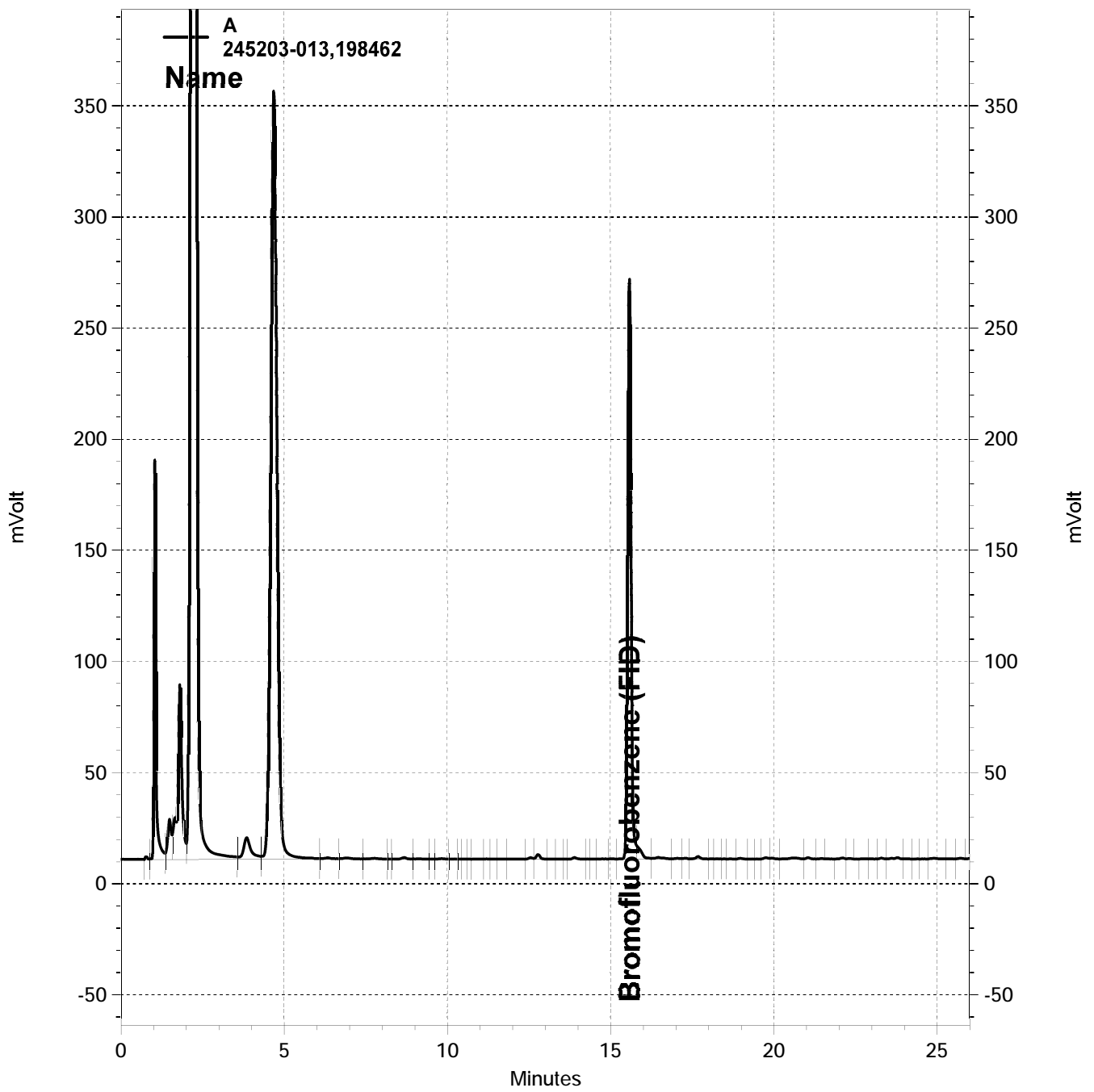
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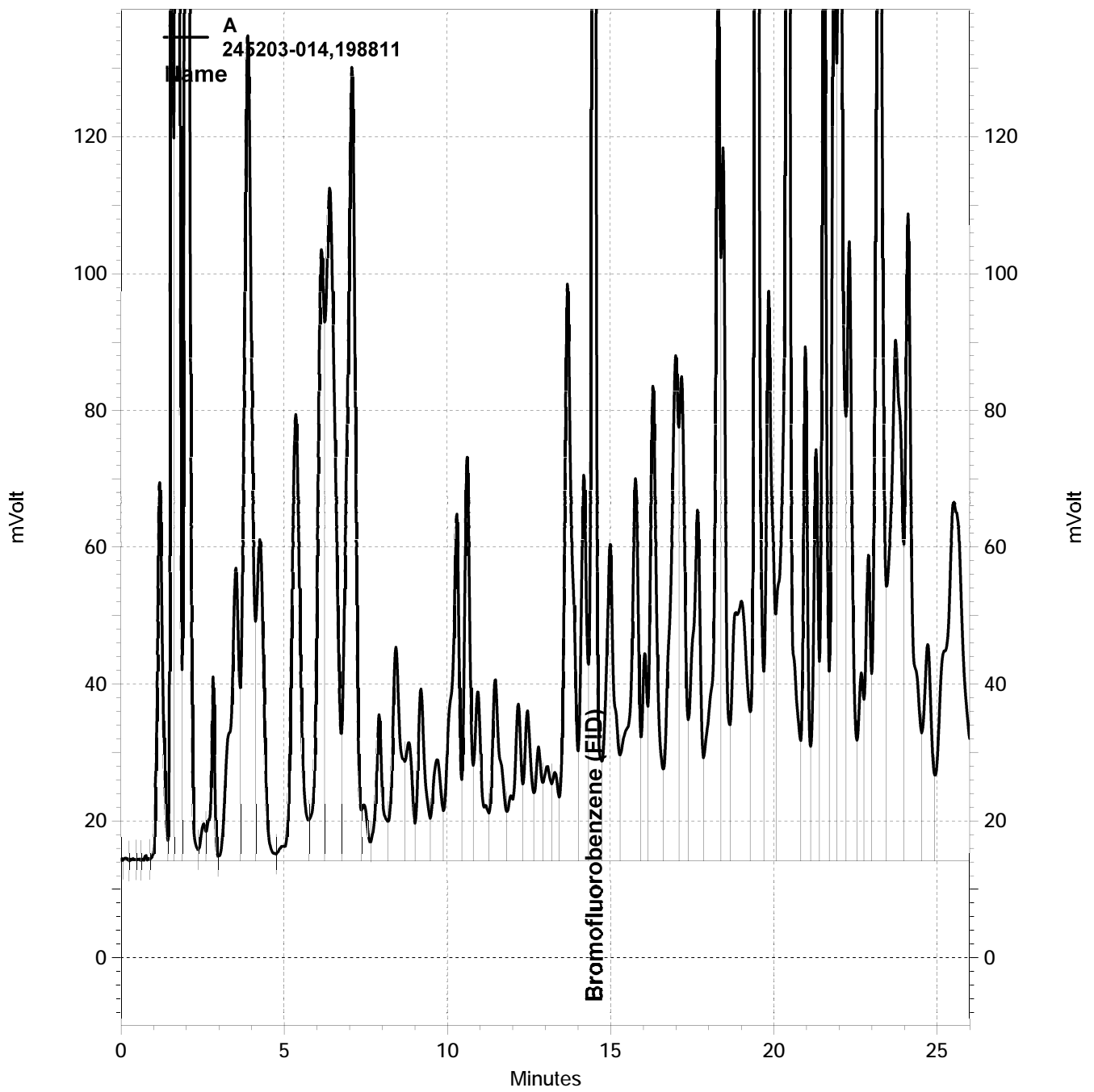
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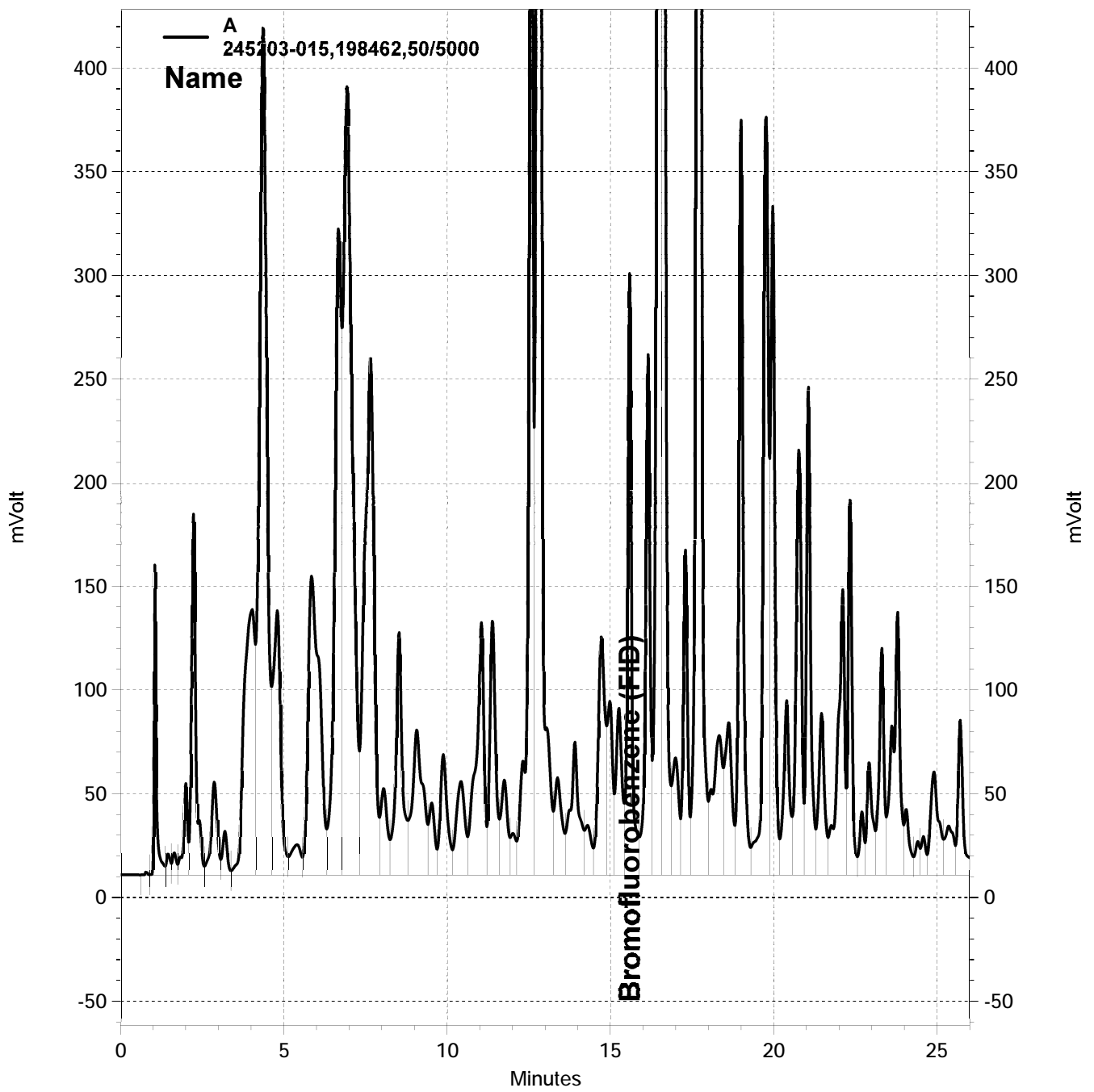
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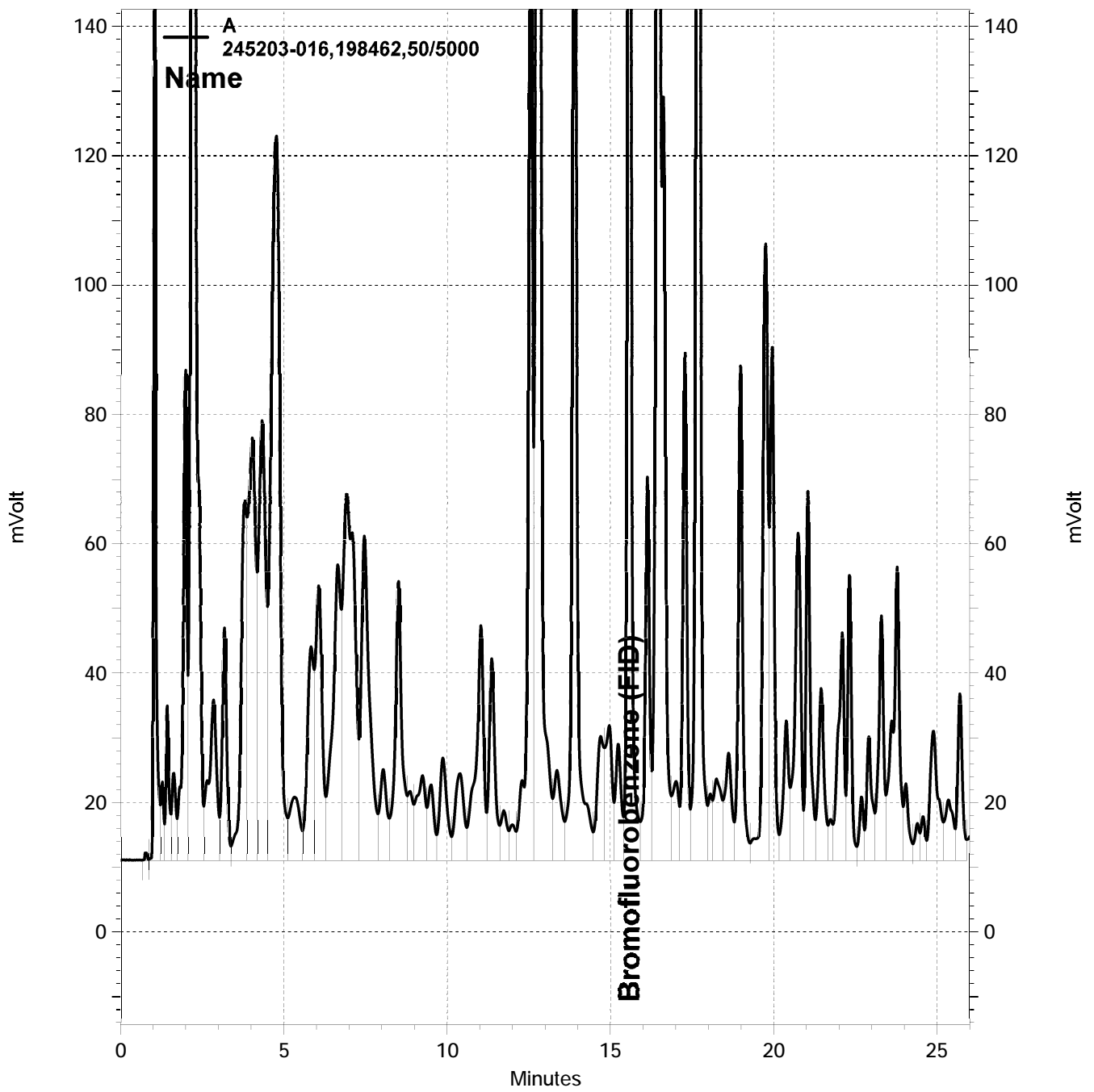
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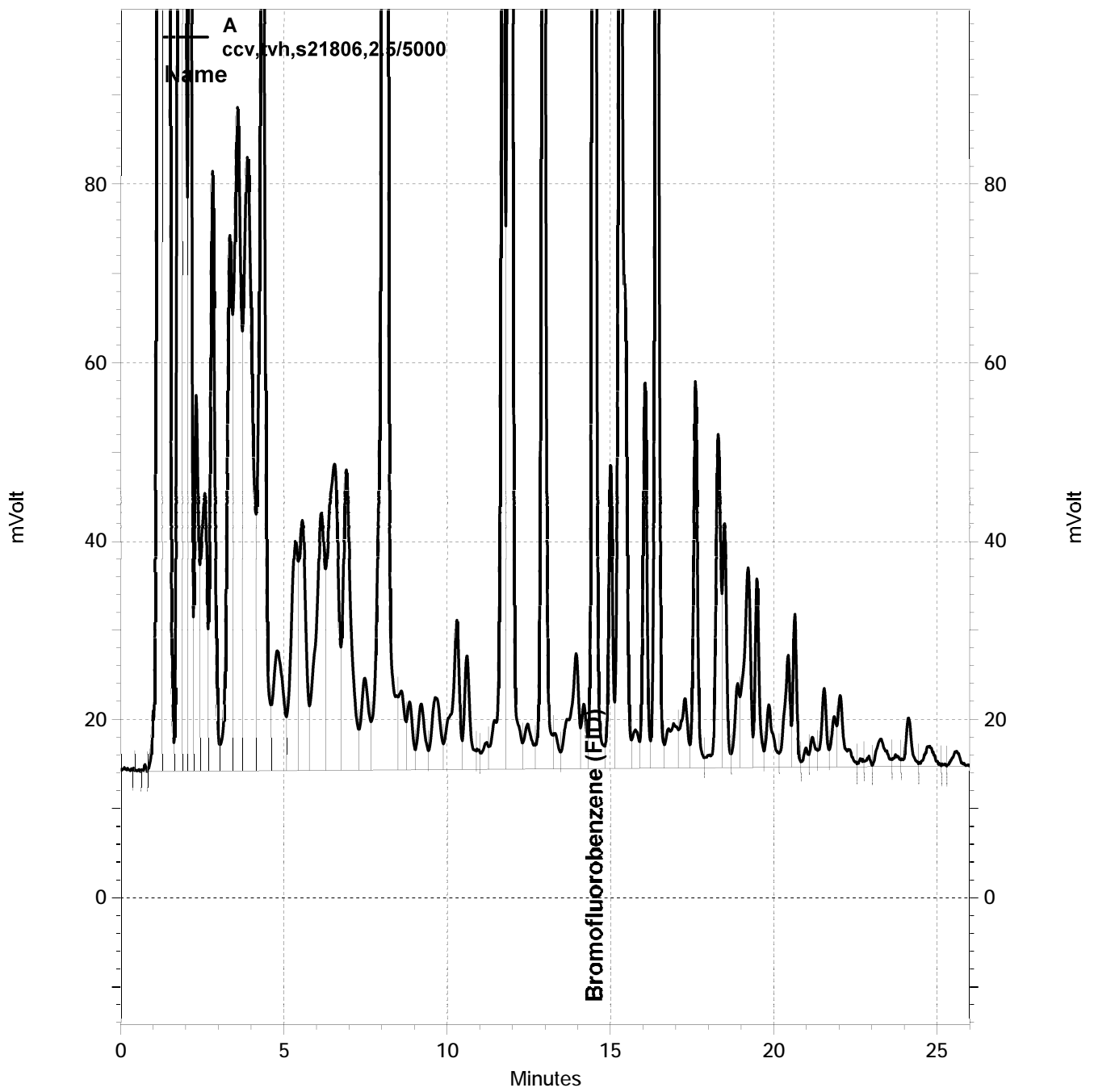
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— \\Lims\gdrive\ezchrom\Projects\GC04\Data\142-002, A

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	198472
Units:	ug/L	Received:	05/10/13
Diln Fac:	1.000	Prepared:	05/14/13

Field ID: DPT-5W-1 Sampled: 05/09/13
 Type: SAMPLE Analyzed: 05/15/13
 Lab ID: 245203-020

Analyte	Result	RL
Diesel C10-C24	4,300	50

Surrogate	%REC	Limits
o-Terphenyl	72	62-133

Field ID: DPT-5W-2 Sampled: 05/10/13
 Type: SAMPLE Analyzed: 05/15/13
 Lab ID: 245203-021

Analyte	Result	RL
Diesel C10-C24	630 Y	50

Surrogate	%REC	Limits
o-Terphenyl	79	62-133

Field ID: DPT-5W-3 Sampled: 05/09/13
 Type: SAMPLE Analyzed: 05/15/13
 Lab ID: 245203-022

Analyte	Result	RL
Diesel C10-C24	320 Y	51

Surrogate	%REC	Limits
o-Terphenyl	92	62-133

Type: BLANK Analyzed: 05/16/13
 Lab ID: QC688600

Analyte	Result	RL
Diesel C10-C24	ND	50

Surrogate	%REC	Limits
o-Terphenyl	96	62-133

Y= Sample exhibits chromatographic pattern which does not resemble standard
 ND= Not Detected
 RL= Reporting Limit
 Page 1 of 1

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	198472
Units:	ug/L	Prepared:	05/14/13
Diln Fac:	1.000	Analyzed:	05/16/13

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC688601

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,321	93	59-120

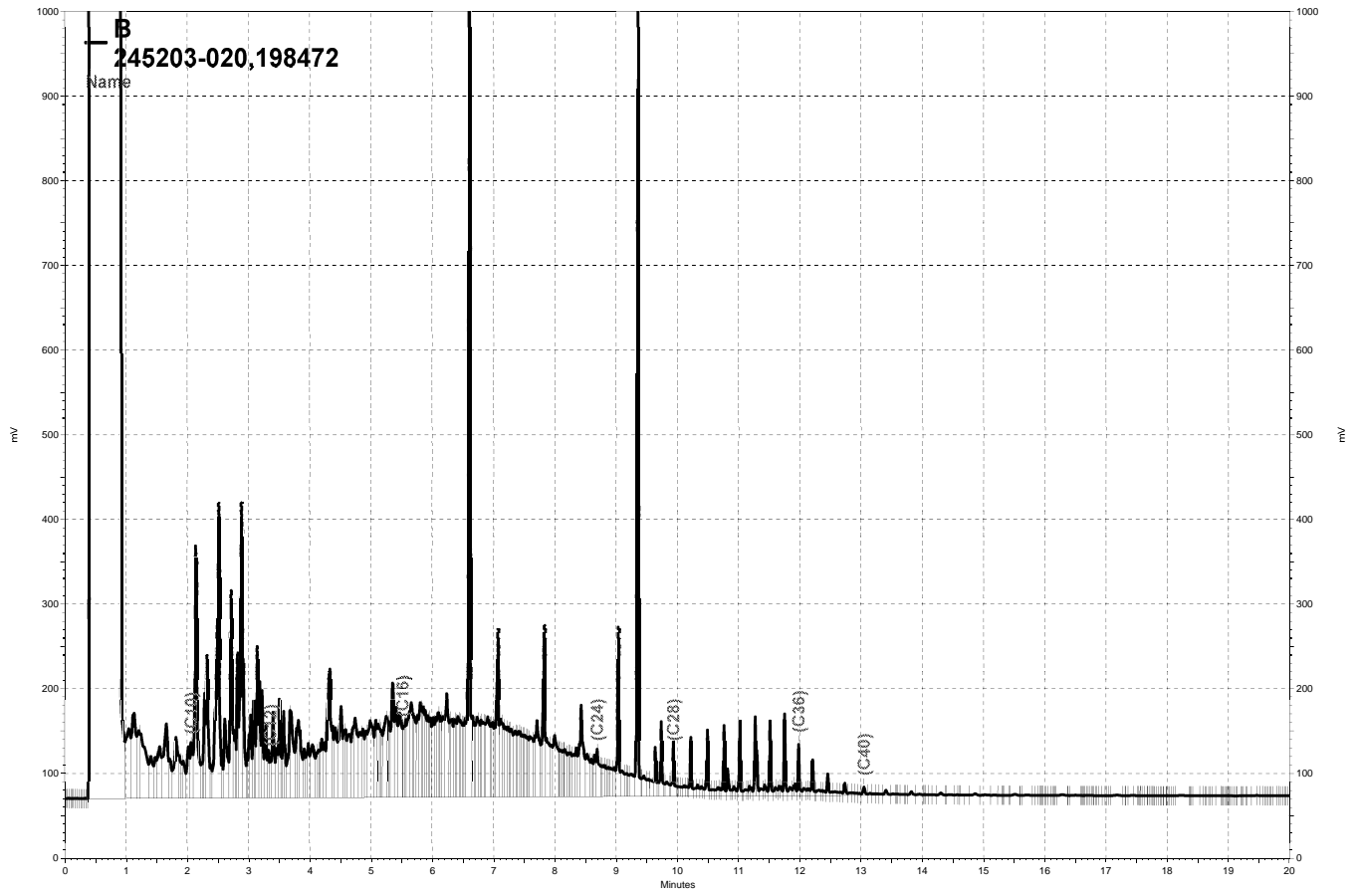
Surrogate	%REC	Limits
o-Terphenyl	106	62-133

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC688602

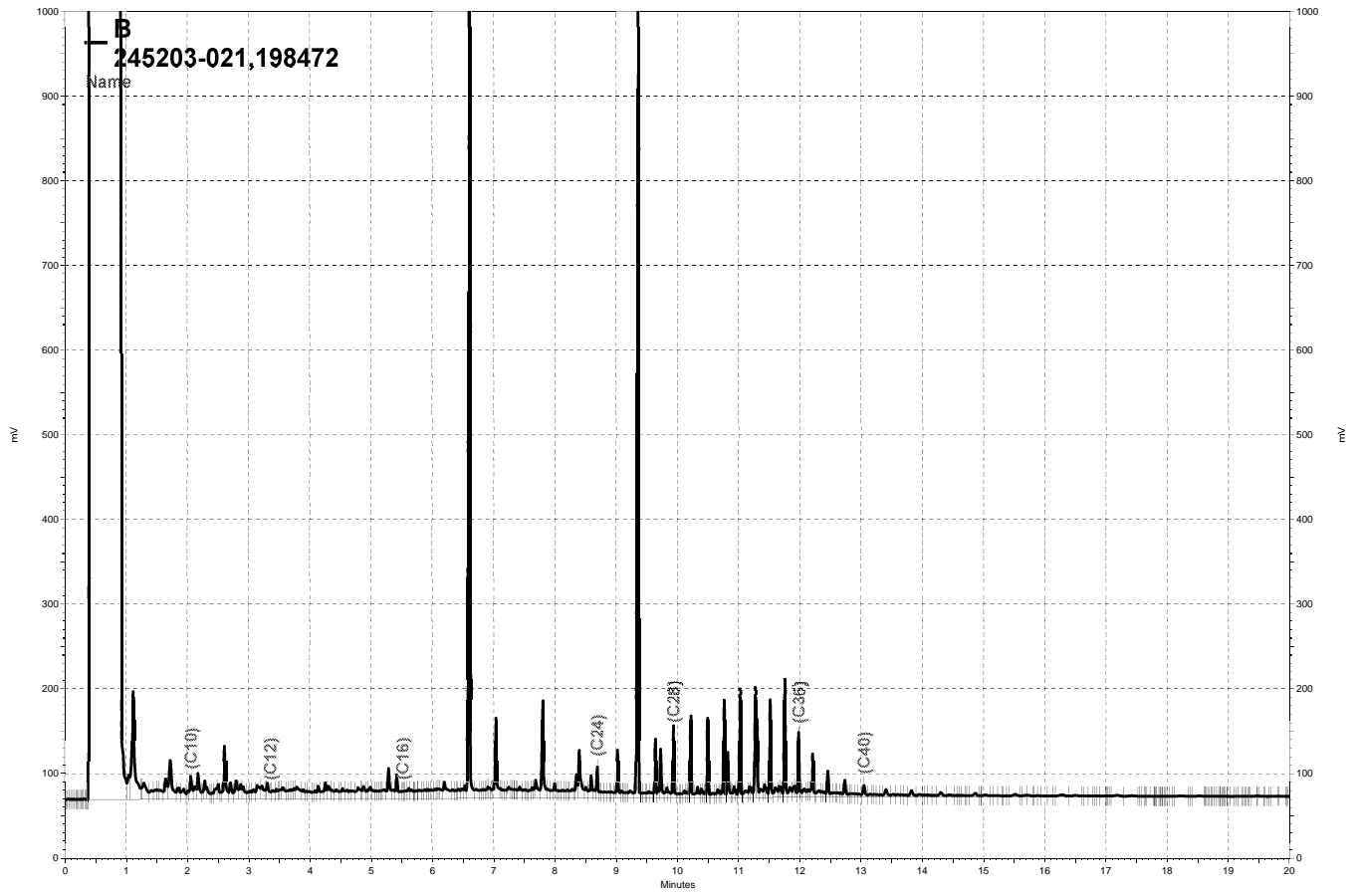
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,185	87	59-120	6	46

Surrogate	%REC	Limits
o-Terphenyl	104	62-133

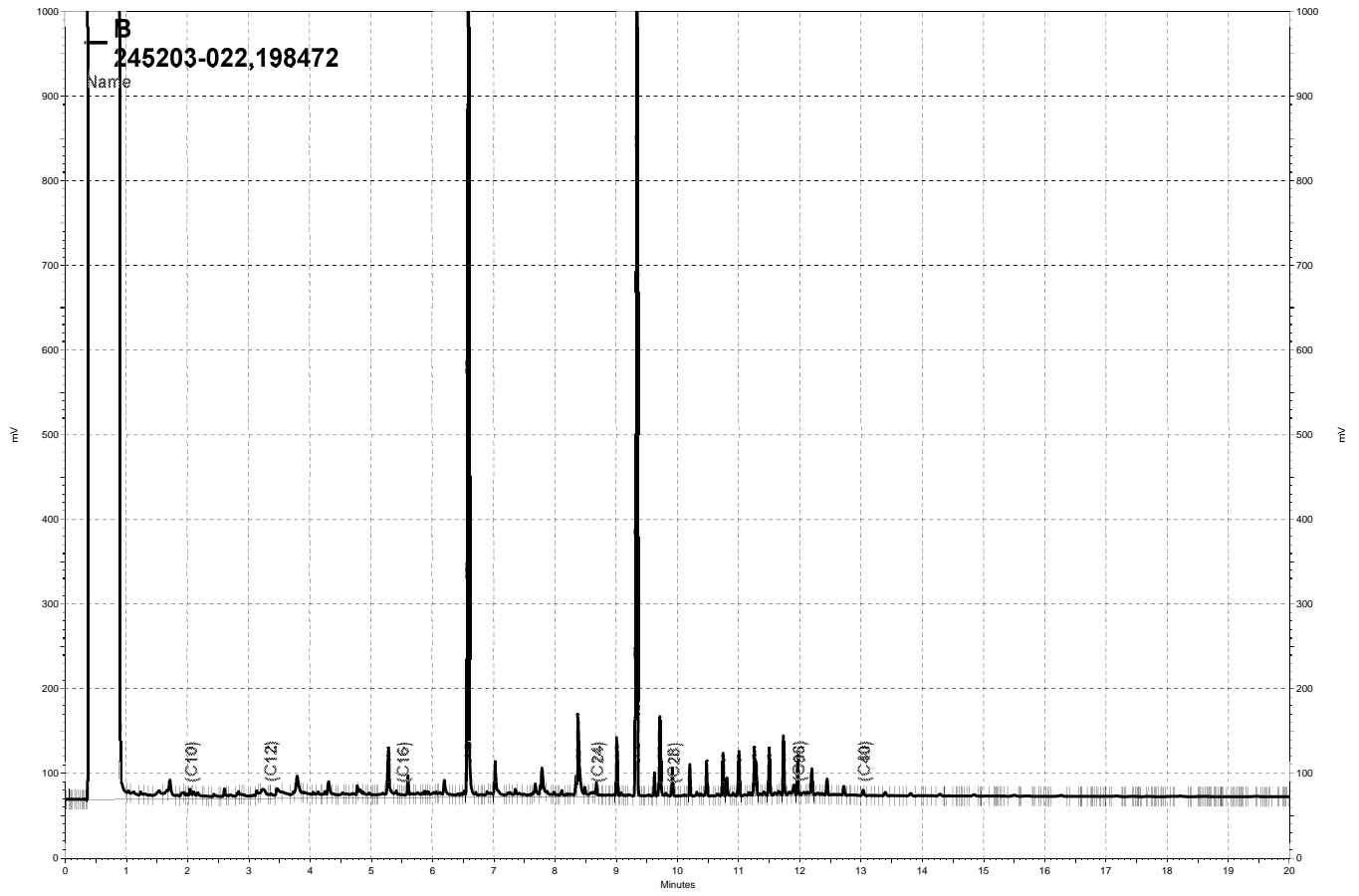
RPD= Relative Percent Difference



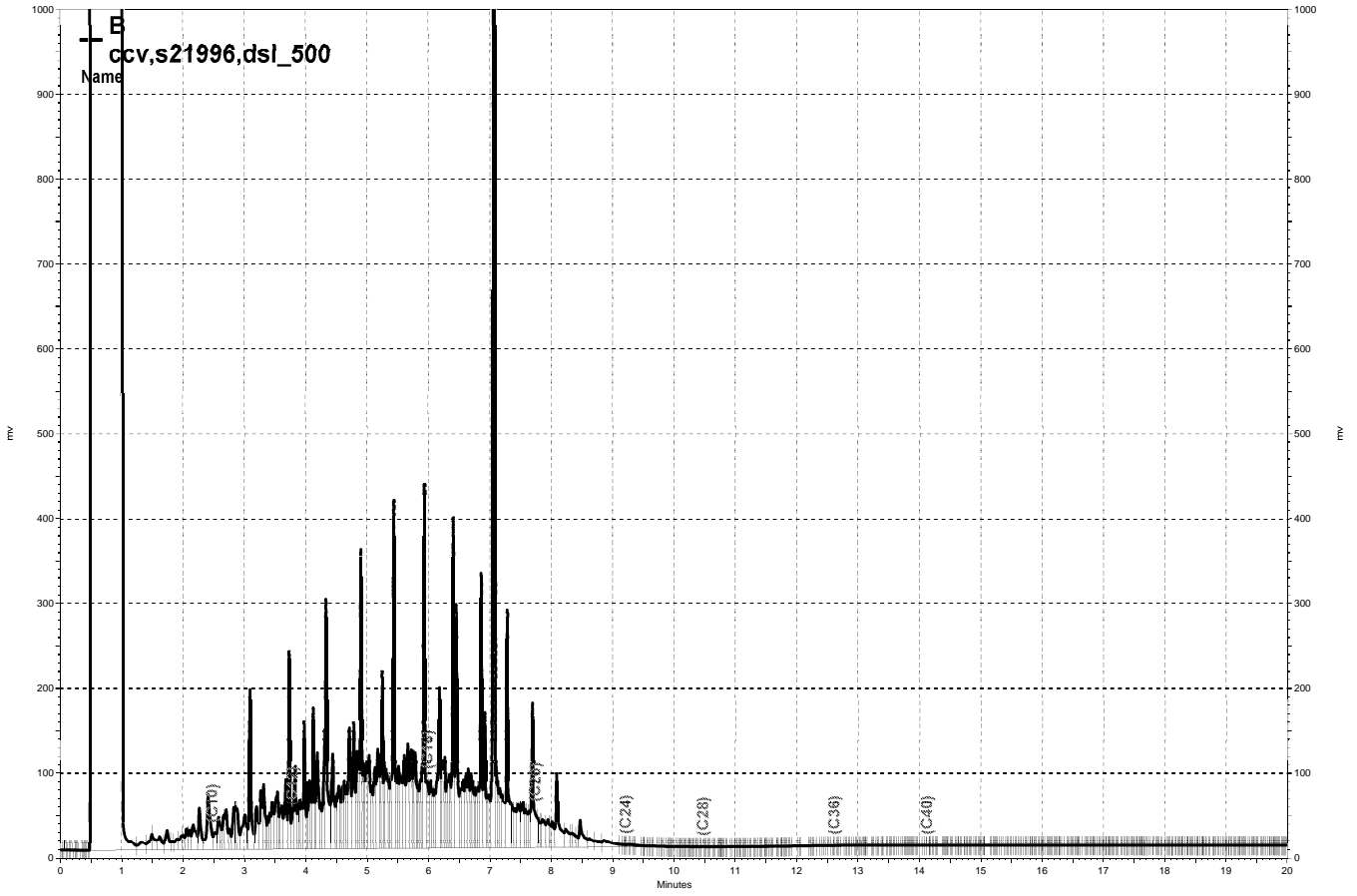
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Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	05/09/13
Basis:	as received	Received:	05/10/13

Field ID:	DPT-5@4FT	Batch#:	198943
Type:	SAMPLE	Prepared:	05/25/13
Lab ID:	245203-001	Analyzed:	05/26/13

Analyte	Result	RL
Diesel C10-C24	16 Y b	1.0

Surrogate	%REC	Limits
o-Terphenyl	103 b	62-136

Field ID:	DPT-5@10FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-002	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	47	1.0

Surrogate	%REC	Limits
o-Terphenyl	82	62-136

Field ID:	DPT-5@12FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-003	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	17	1.0

Surrogate	%REC	Limits
o-Terphenyl	87	62-136

Field ID:	DPT-5@15FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-004	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	96	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	05/09/13
Basis:	as received	Received:	05/10/13

Field ID:	DPT-5@30FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-006	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	1.1 Y	1.0

Surrogate	%REC	Limits
o-Terphenyl	89	62-136

Field ID:	DPT-5@50FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-008	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	84	62-136

Field ID:	MW-1@5FT	Batch#:	198943
Type:	SAMPLE	Prepared:	05/25/13
Lab ID:	245203-009	Analyzed:	05/26/13

Analyte	Result	RL
Diesel C10-C24	11 Y b	1.0

Surrogate	%REC	Limits
o-Terphenyl	105 b	62-136

Field ID:	MW-1@10FT	Batch#:	198466
Type:	SAMPLE	Prepared:	05/14/13
Lab ID:	245203-010	Analyzed:	05/14/13

Analyte	Result	RL
Diesel C10-C24	130	1.0

Surrogate	%REC	Limits
o-Terphenyl	83	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	05/09/13
Basis:	as received	Received:	05/10/13

Field ID:	MW-1@12FT	Batch#:	198521
Type:	SAMPLE	Prepared:	05/15/13
Lab ID:	245203-011	Analyzed:	05/15/13

Analyte	Result	RL
Diesel C10-C24	140	1.0

Surrogate	%REC	Limits
o-Terphenyl	98	62-136

Field ID:	MW-1@15FT	Batch#:	198943
Type:	SAMPLE	Prepared:	05/25/13
Lab ID:	245203-012	Analyzed:	05/26/13

Analyte	Result	RL
Diesel C10-C24	91 b	1.0

Surrogate	%REC	Limits
o-Terphenyl	103 b	62-136

Field ID:	MW-1@25FT	Batch#:	198521
Type:	SAMPLE	Prepared:	05/15/13
Lab ID:	245203-013	Analyzed:	05/15/13

Analyte	Result	RL
Diesel C10-C24	1.3 Y	1.0

Surrogate	%REC	Limits
o-Terphenyl	89	62-136

Field ID:	MW-2@7FT	Batch#:	198943
Type:	SAMPLE	Prepared:	05/25/13
Lab ID:	245203-014	Analyzed:	05/26/13

Analyte	Result	RL
Diesel C10-C24	21 Y b	1.0

Surrogate	%REC	Limits
o-Terphenyl	102 b	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	05/09/13
Basis:	as received	Received:	05/10/13

Field ID:	MW-2@10FT	Batch#:	198521
Type:	SAMPLE	Prepared:	05/15/13
Lab ID:	245203-015	Analyzed:	05/15/13

Analyte	Result	RL
Diesel C10-C24	400	1.0

Surrogate	%REC	Limits
o-Terphenyl	96	62-136

Field ID:	MW-2@12FT	Batch#:	198521
Type:	SAMPLE	Prepared:	05/15/13
Lab ID:	245203-016	Analyzed:	05/15/13

Analyte	Result	RL
Diesel C10-C24	95	1.0

Surrogate	%REC	Limits
o-Terphenyl	93	62-136

Field ID:	MW-2@17FT	Batch#:	198521
Type:	SAMPLE	Prepared:	05/15/13
Lab ID:	245203-017	Analyzed:	05/15/13

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	97	62-136

Type:	BLANK	Prepared:	05/14/13
Lab ID:	QC688577	Analyzed:	05/15/13
Batch#:	198466		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	97	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Total Extractable Hydrocarbons

Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg	Sampled:	05/09/13
Basis:	as received	Received:	05/10/13

Type:	BLANK	Prepared:	05/15/13
Lab ID:	QC688810	Analyzed:	05/15/13
Batch#:	198521		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	108	62-136

Type:	BLANK	Prepared:	05/25/13
Lab ID:	QC690571	Analyzed:	05/25/13
Batch#:	198943		

Analyte	Result	RL
Diesel C10-C24	ND	1.0

Surrogate	%REC	Limits
o-Terphenyl	97	62-136

Y= Sample exhibits chromatographic pattern which does not resemble standard
 b= See narrative
 ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC688578	Batch#:	198466
Matrix:	Soil	Prepared:	05/14/13
Units:	mg/Kg	Analyzed:	05/14/13

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.29	36.70	73	62-130

Surrogate	%REC	Limits
o-Terphenyl	85	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC688811	Batch#:	198521
Matrix:	Soil	Prepared:	05/15/13
Units:	mg/Kg	Analyzed:	05/15/13

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.25	51.74	103	62-130

Surrogate	%REC	Limits
o-Terphenyl	107	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	198521
MSS Lab ID:	245268-002	Sampled:	05/15/13
Matrix:	Soil	Received:	05/15/13
Units:	mg/Kg	Prepared:	05/15/13
Basis:	as received	Analyzed:	05/16/13
Diln Fac:	5.000		

Type: MS Lab ID: QC688812

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	48.33	49.74	96.73	97	39-148

Surrogate	%REC	Limits
o-Terphenyl	84	62-136

Type: MSD Lab ID: QC688813

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.74	100.9	106	39-148	4	45

Surrogate	%REC	Limits
o-Terphenyl	86	62-136

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC690572	Batch#:	198943
Matrix:	Soil	Prepared:	05/25/13
Units:	mg/Kg	Analyzed:	05/25/13

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.79	45.19	91	62-130

Surrogate	%REC	Limits
o-Terphenyl	98	62-136

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5082	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	198943
MSS Lab ID:	245531-003	Sampled:	05/23/13
Matrix:	Soil	Received:	05/23/13
Units:	mg/Kg	Prepared:	05/25/13
Basis:	as received	Analyzed:	05/25/13
Diln Fac:	1.000		

Type: MS Lab ID: QC690573

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	300.6	49.73	335.1	69 NM	39-148

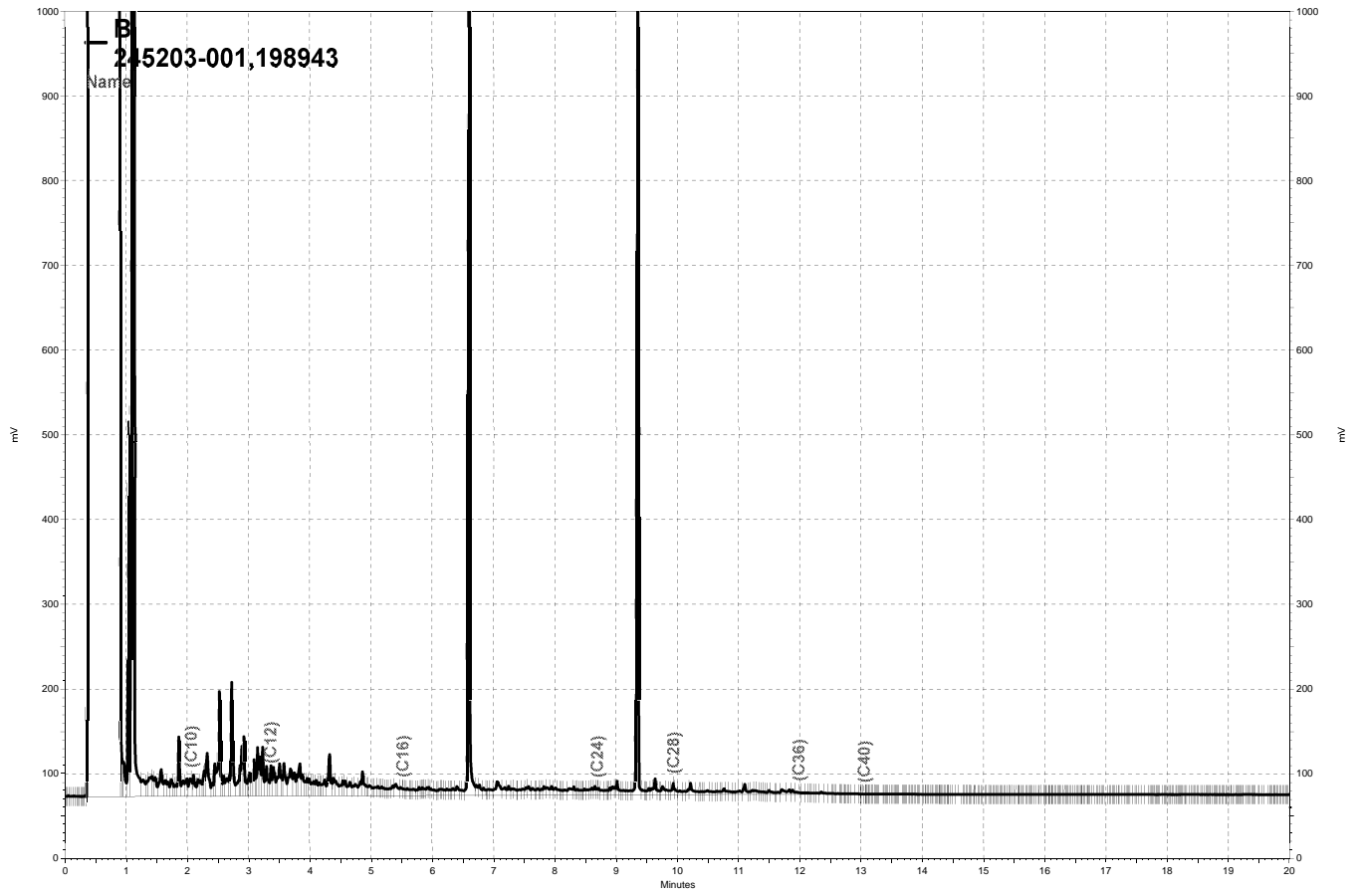
Surrogate	%REC	Limits
o-Terphenyl	104	62-136

Type: MSD Lab ID: QC690574

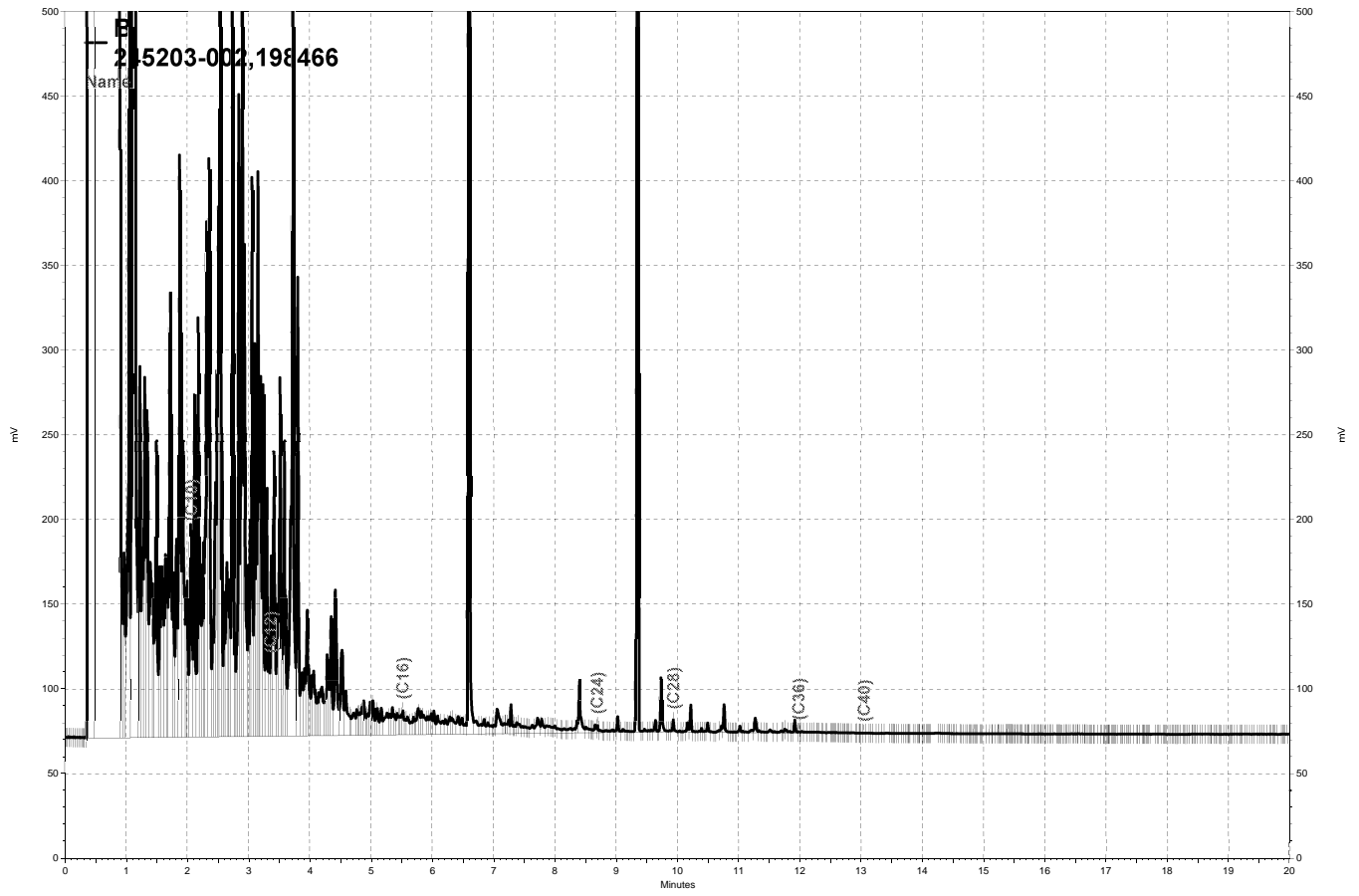
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.80	321.5	42 NM	39-148	4	45

Surrogate	%REC	Limits
o-Terphenyl	109	62-136

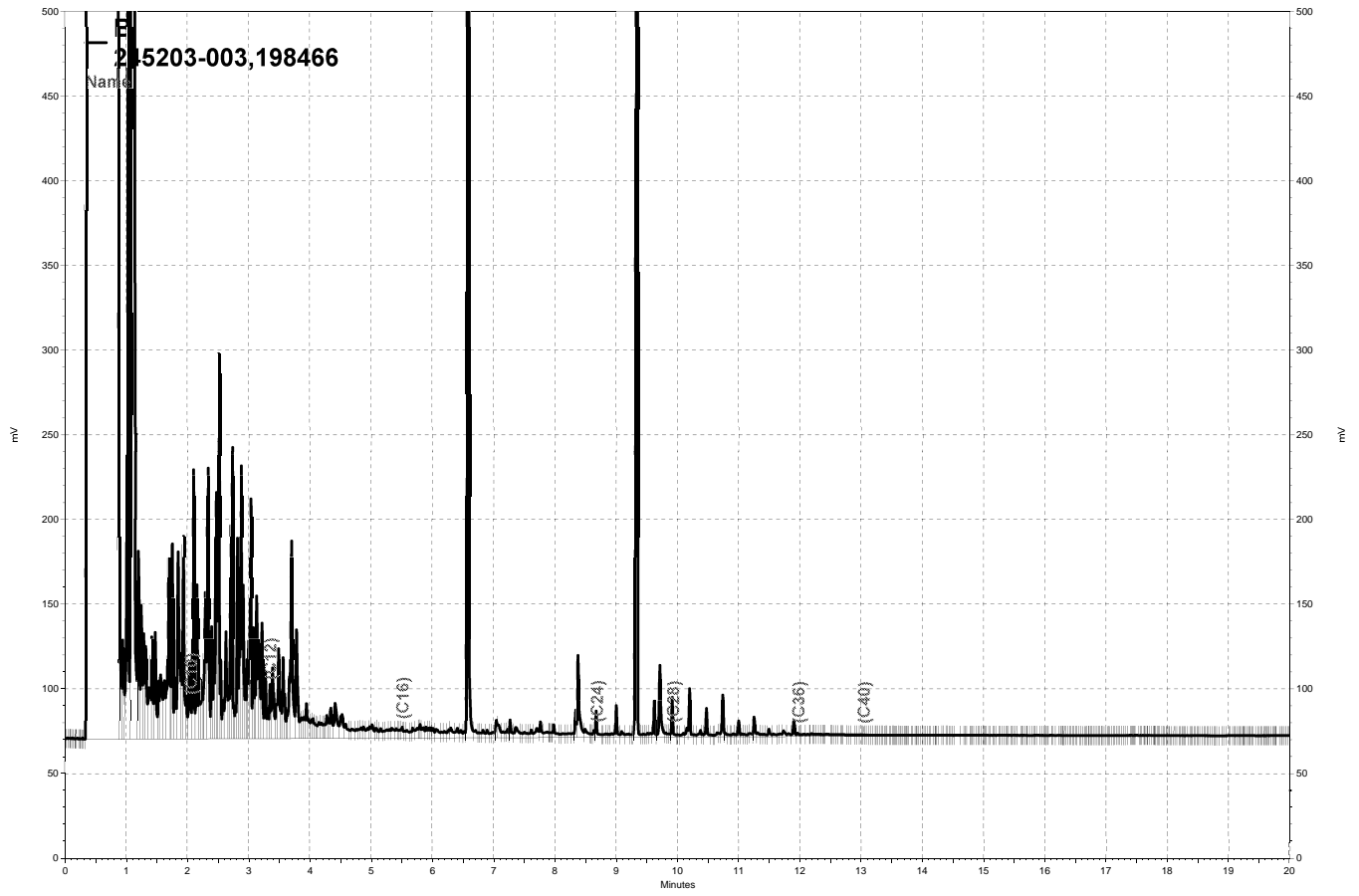
NM= Not Meaningful: Sample concentration > 4X spike concentration
 RPD= Relative Percent Difference



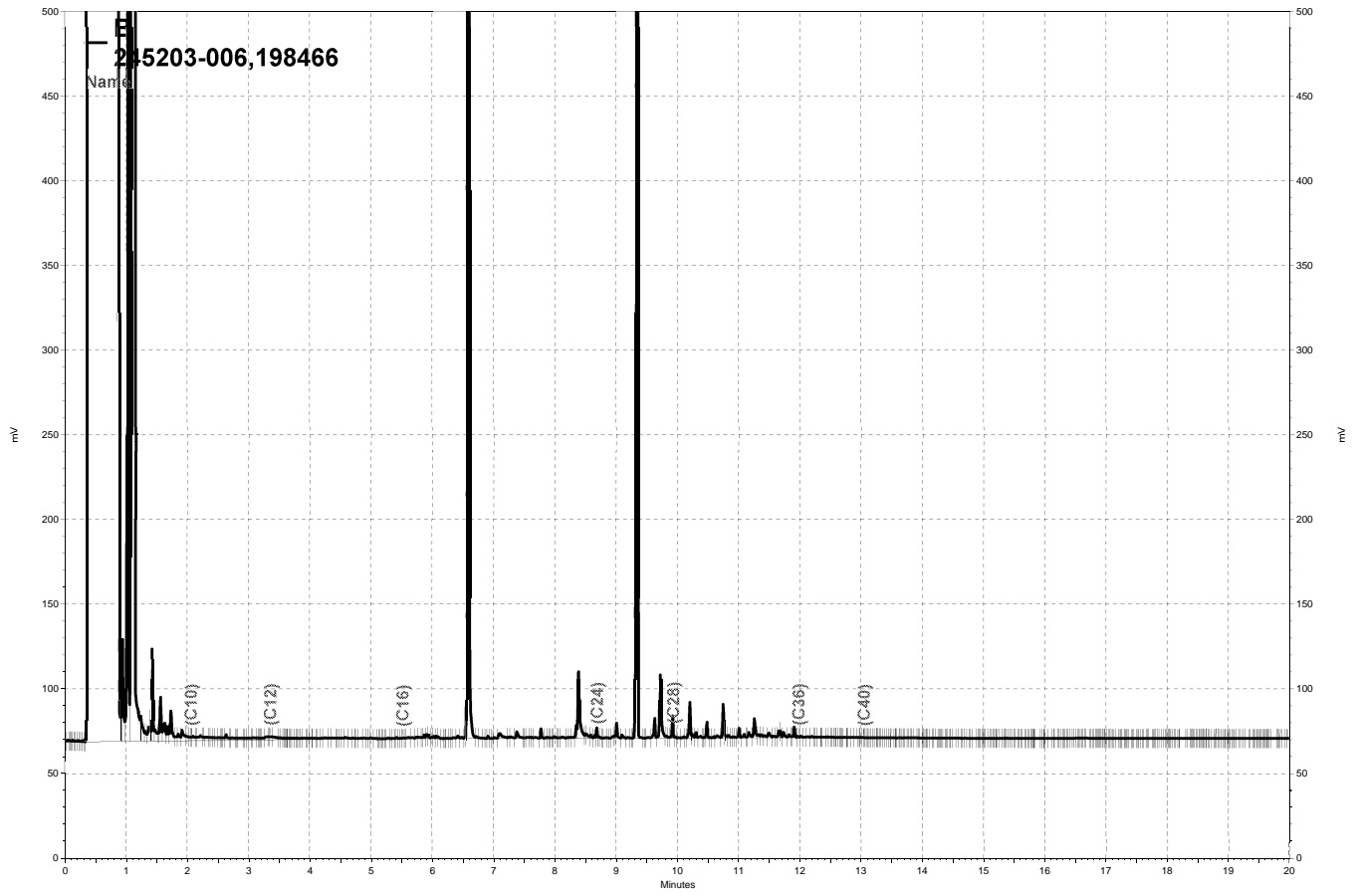
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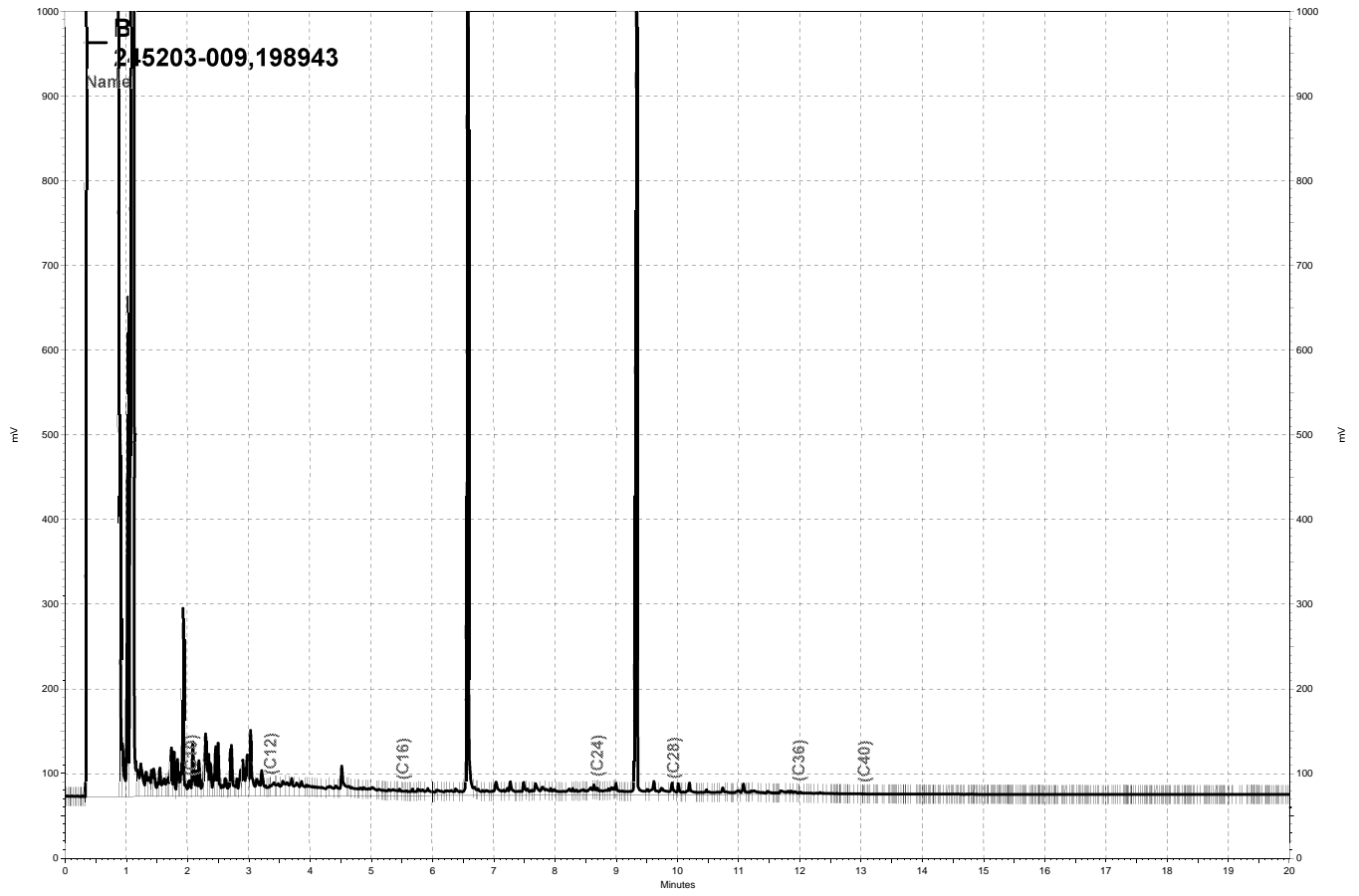
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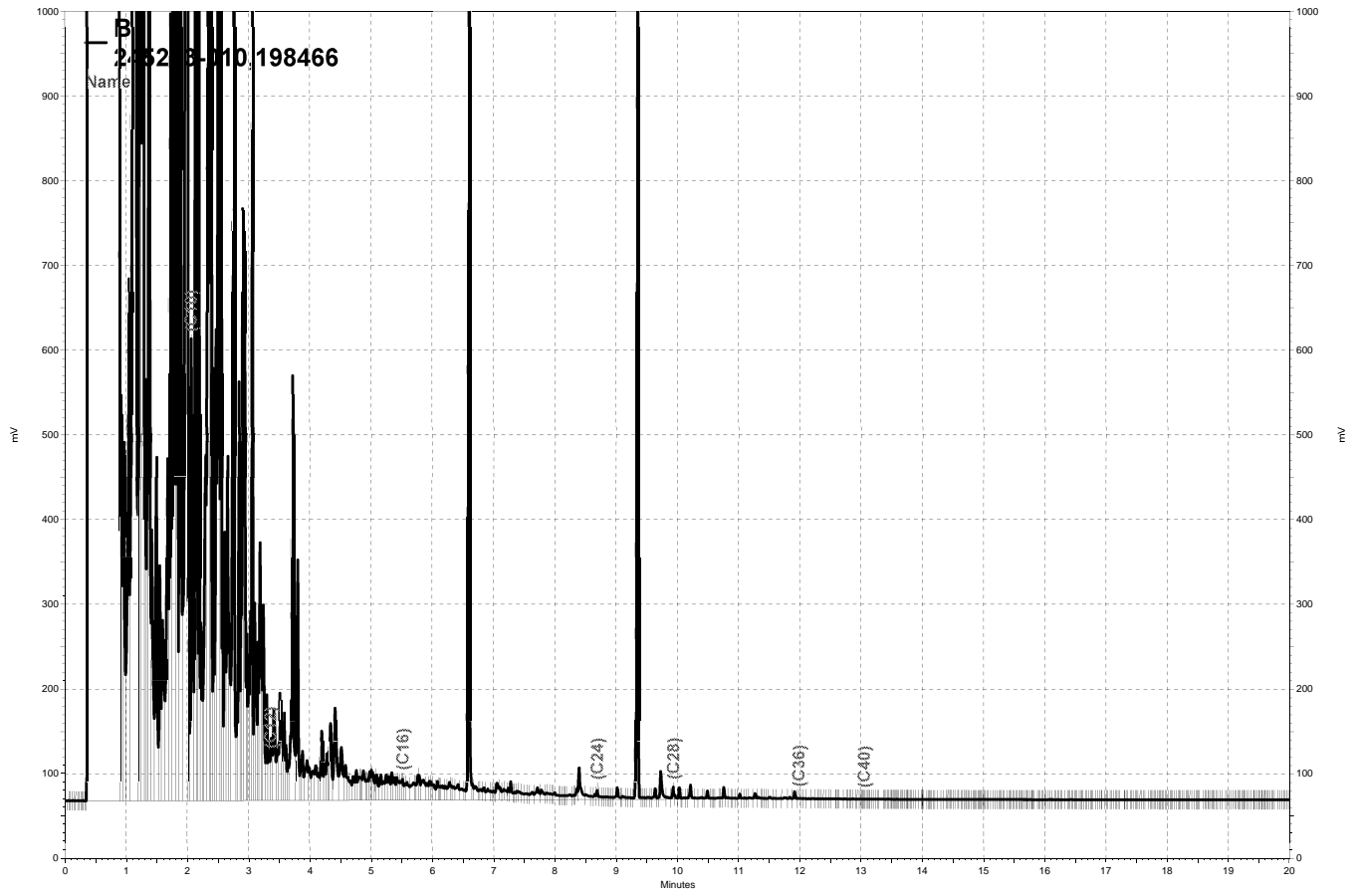
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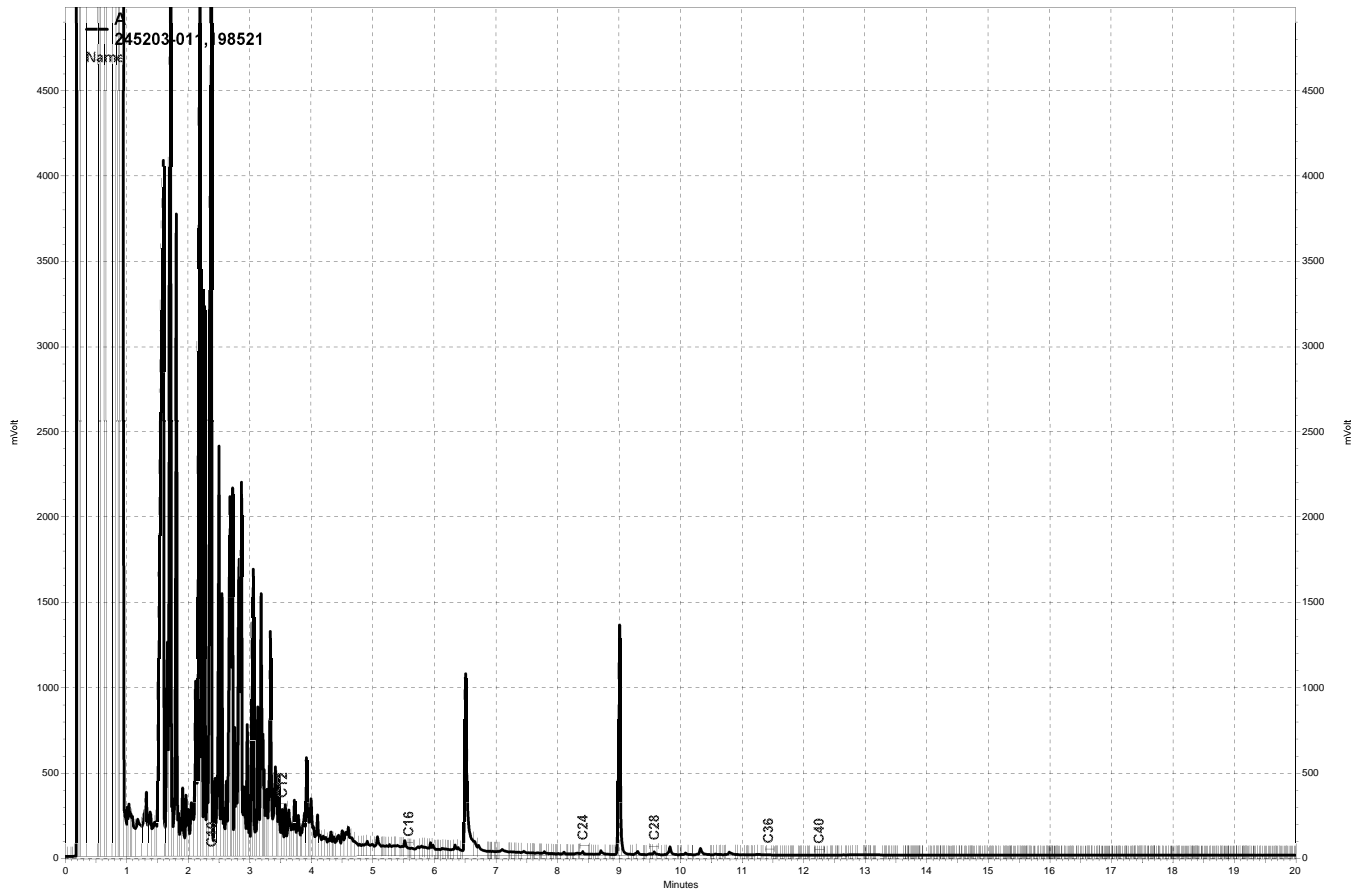
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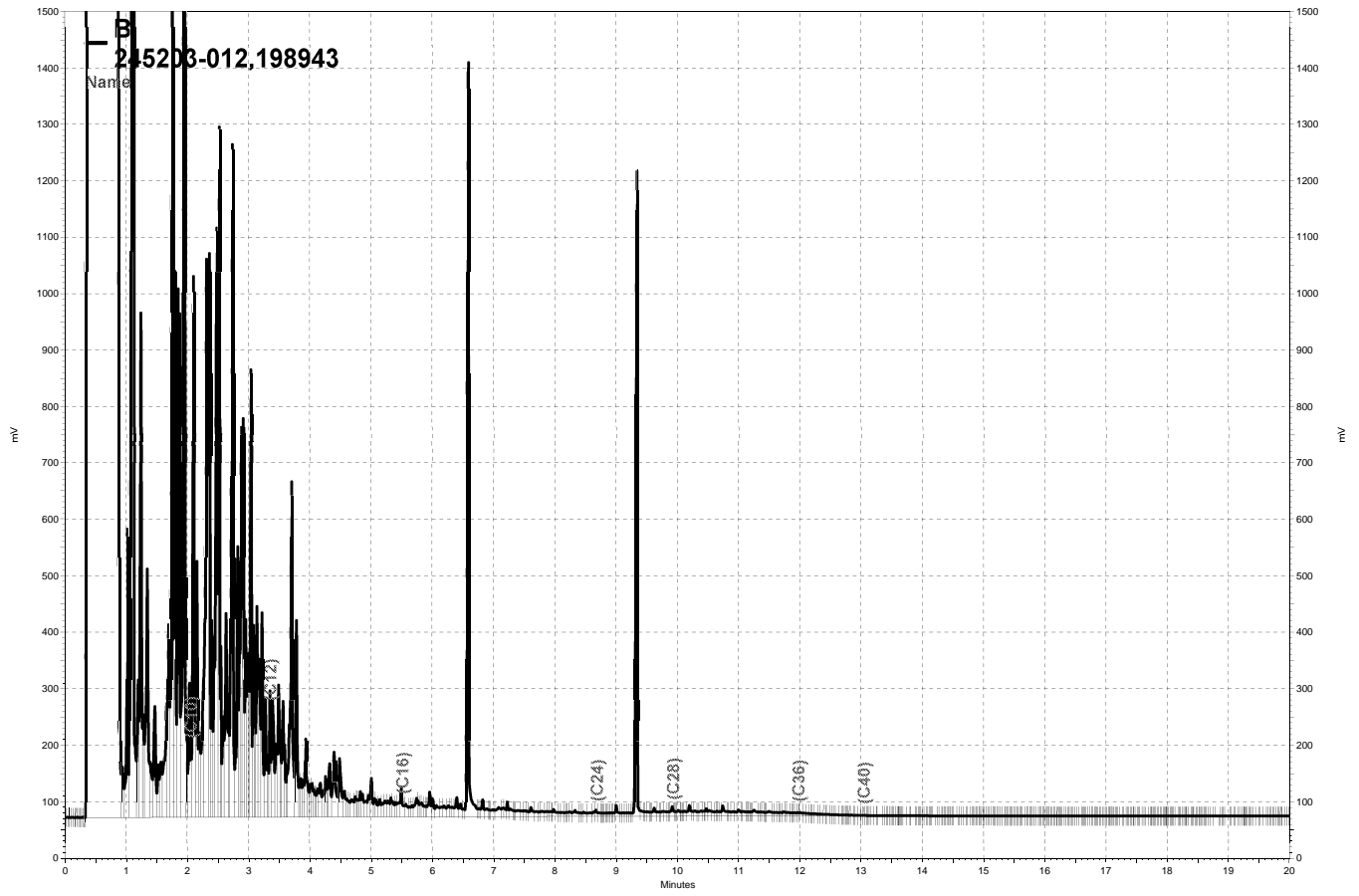
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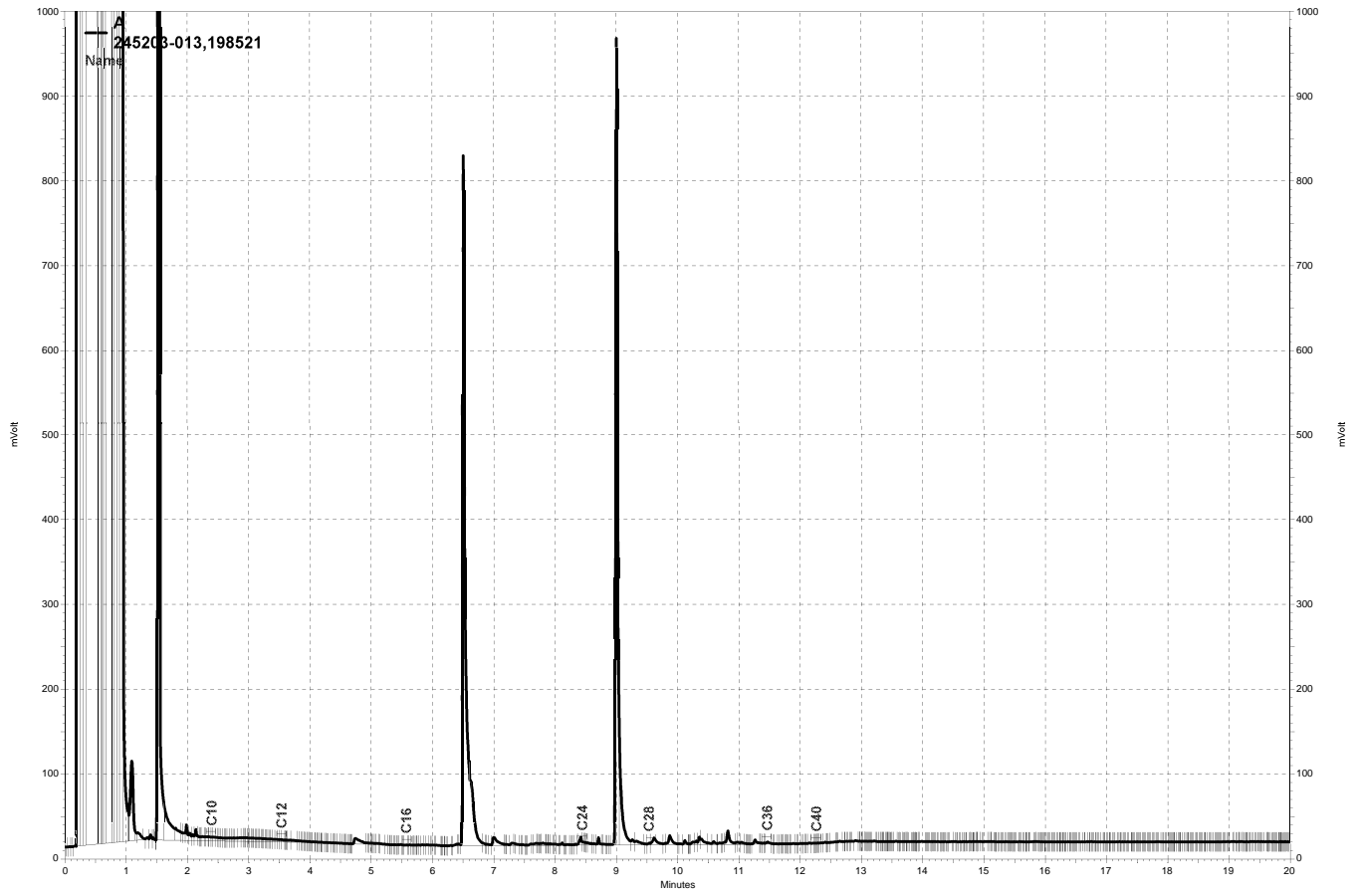
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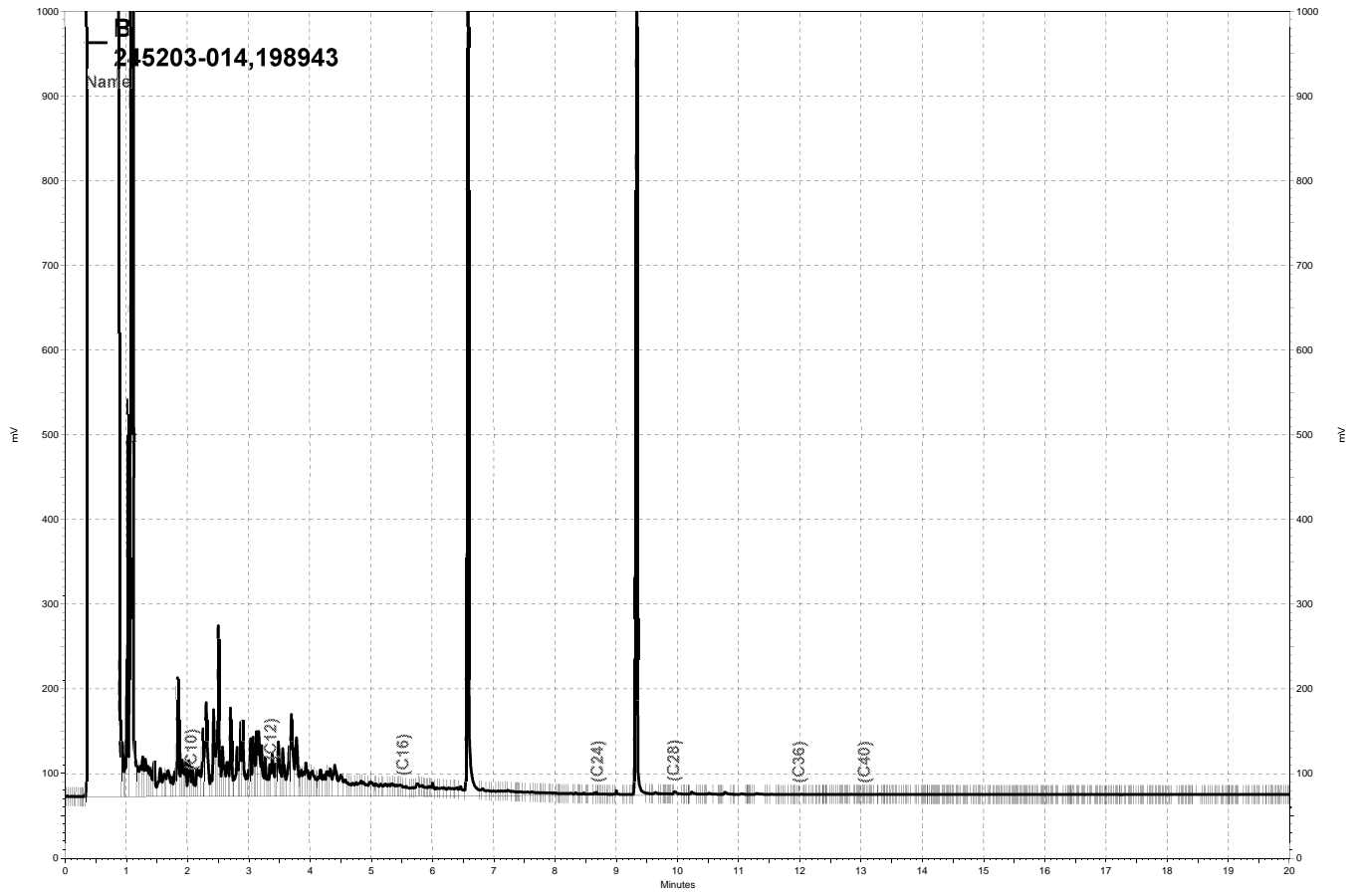
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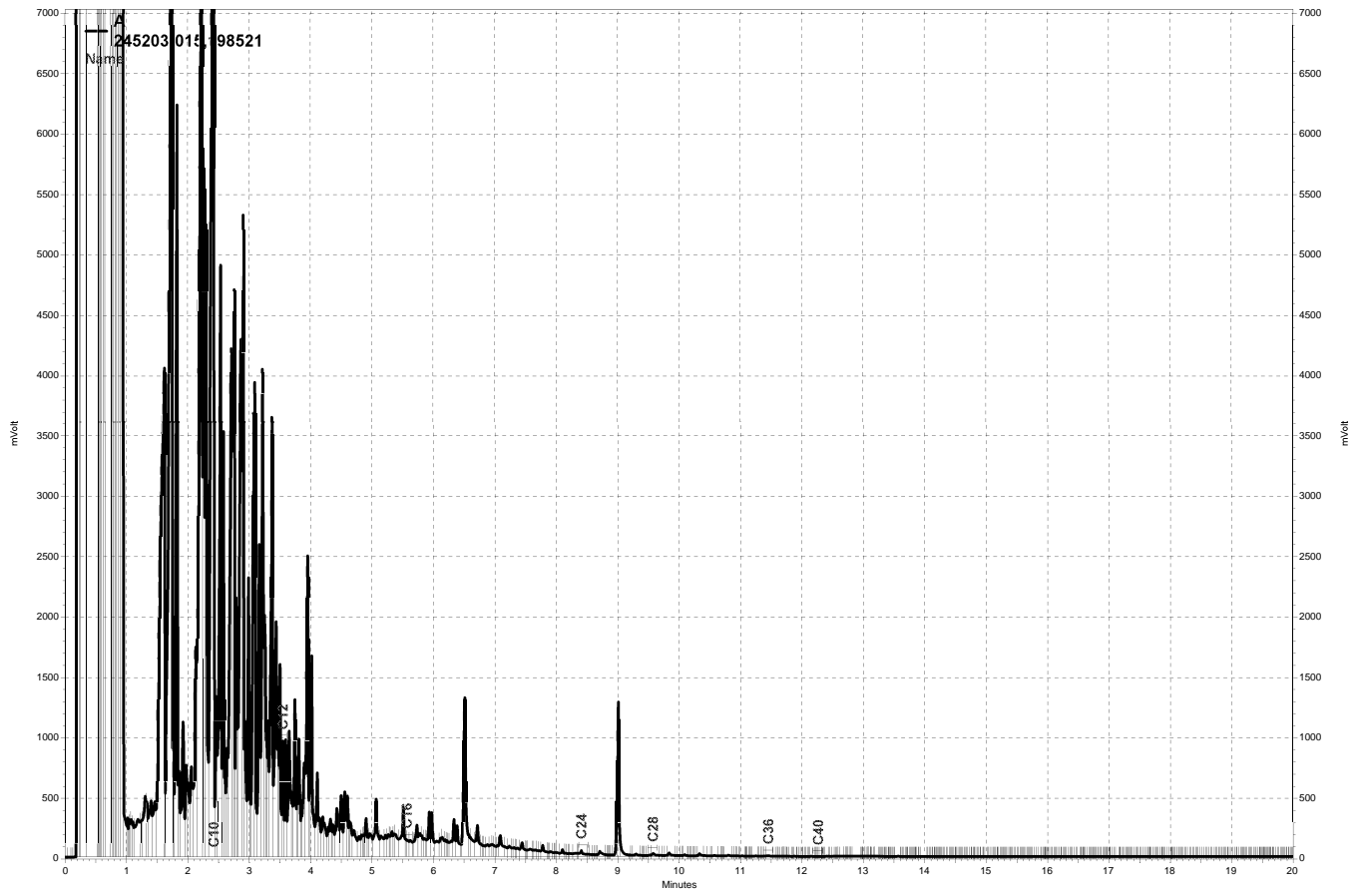
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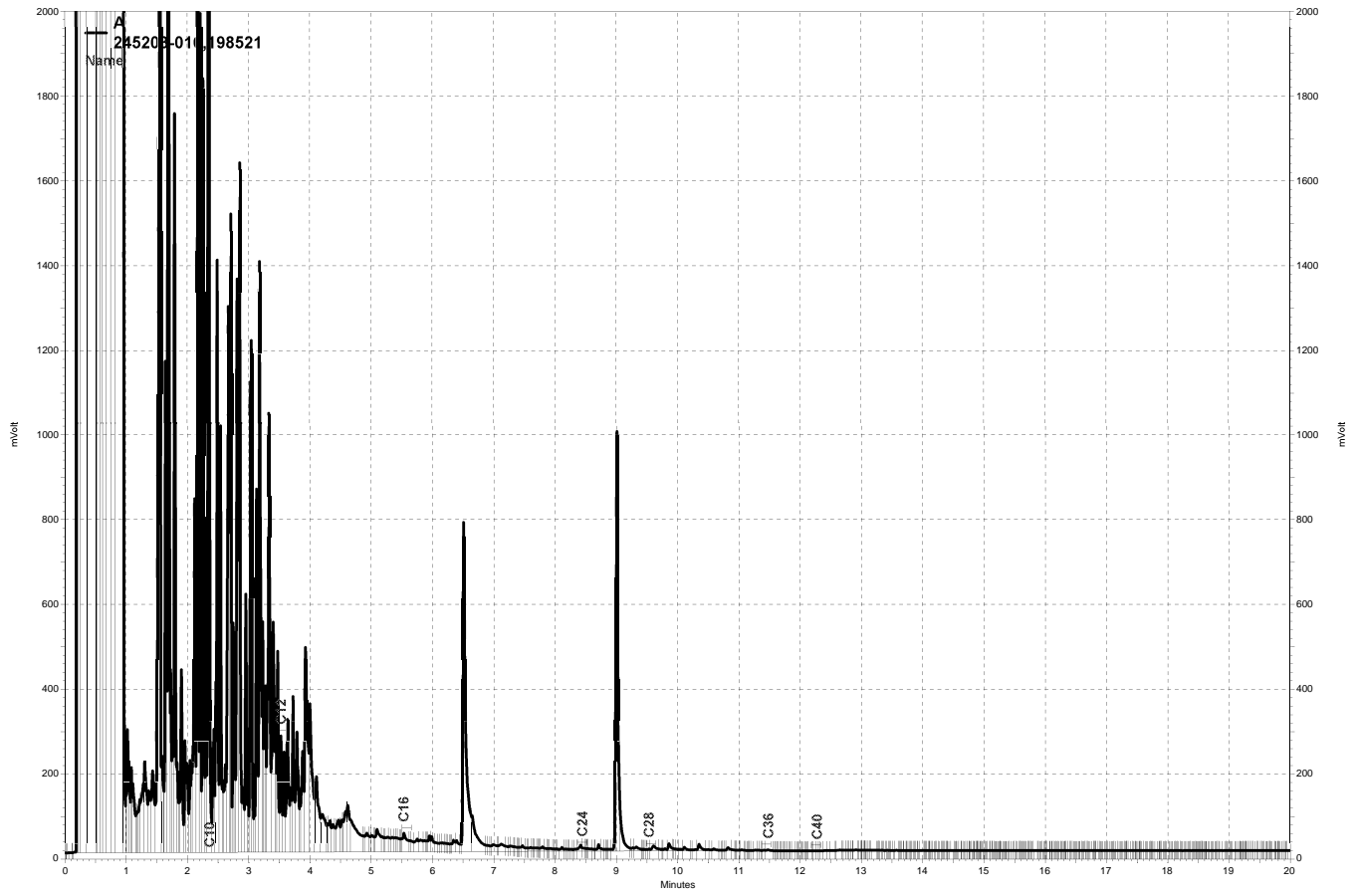
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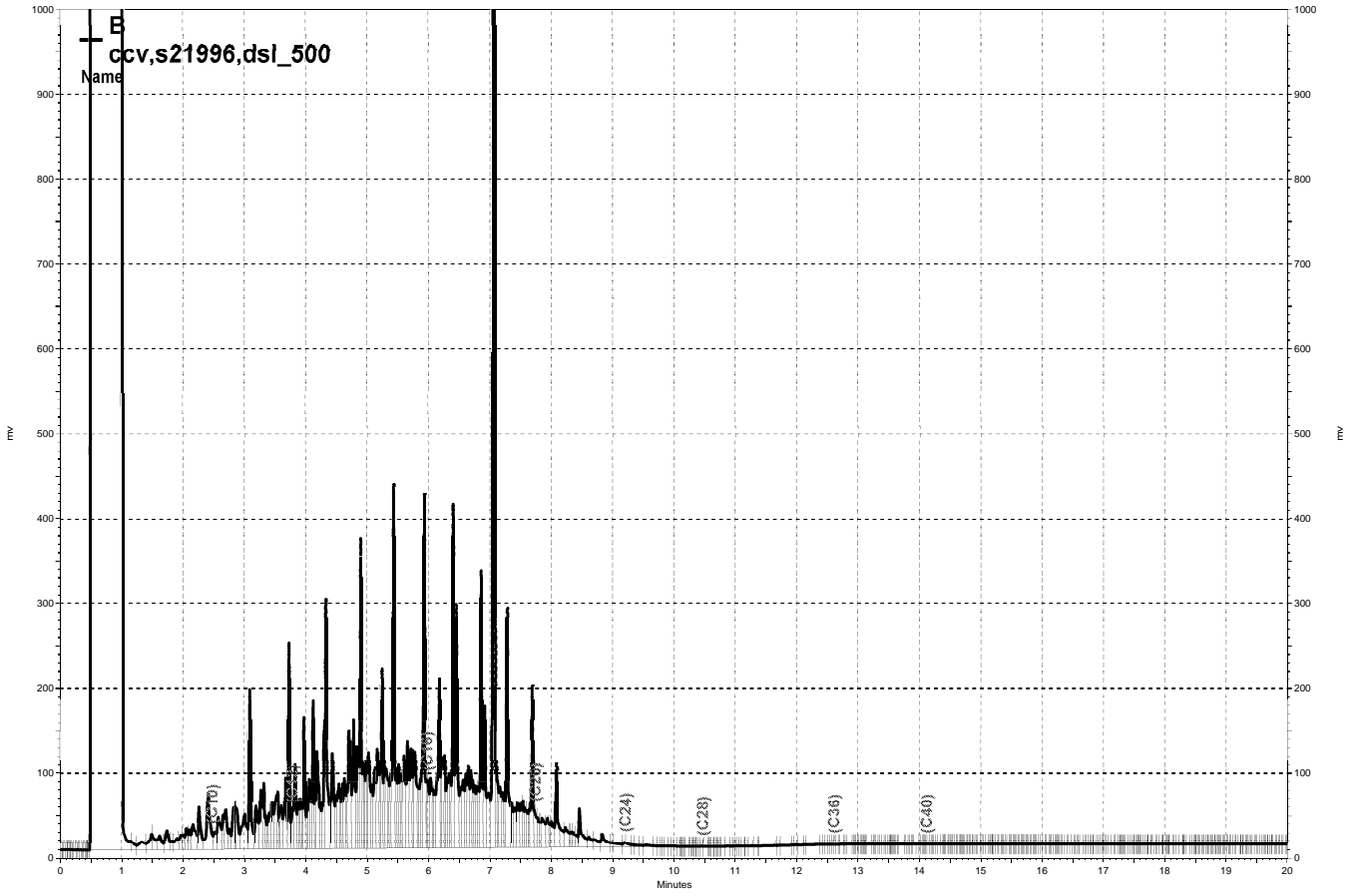
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Purgeable Organics by GC/MS			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5W-1	Units:	ug/L
Lab ID:	245203-020	Sampled:	05/09/13
Matrix:	Water	Received:	05/10/13

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	2,100	630	12.50	198504	05/15/13
tert-Butyl Alcohol (TBA)	16,000	3,300	333.3	198614	05/17/13
Isopropyl Ether (DIPE)	ND	6.3	12.50	198504	05/15/13
Ethyl tert-Butyl Ether (ETBE)	ND	6.3	12.50	198504	05/15/13
Methyl tert-Amyl Ether (TAME)	54	6.3	12.50	198504	05/15/13
Ethanol	ND	13,000	12.50	198504	05/15/13
MTBE	640	6.3	12.50	198504	05/15/13
1,2-Dichloroethane	ND	6.3	12.50	198504	05/15/13
Benzene	10	6.3	12.50	198504	05/15/13
Toluene	ND	6.3	12.50	198504	05/15/13
1,2-Dibromoethane	ND	6.3	12.50	198504	05/15/13
Ethylbenzene	23	6.3	12.50	198504	05/15/13
m,p-Xylenes	ND	6.3	12.50	198504	05/15/13
o-Xylene	ND	6.3	12.50	198504	05/15/13
Naphthalene	ND	25	12.50	198504	05/15/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	93	77-134	12.50	198504	05/15/13
1,2-Dichloroethane-d4	103	72-140	12.50	198504	05/15/13
Toluene-d8	101	80-120	12.50	198504	05/15/13
Bromofluorobenzene	98	80-120	12.50	198504	05/15/13

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 245203	Location: 2844 Mountain Blvd, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5082	Analysis: EPA 8260B
Field ID: DPT-5W-2	Units: ug/L
Lab ID: 245203-021	Sampled: 05/10/13
Matrix: Water	Received: 05/10/13

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
Gasoline C7-C12	ND	2,000	40.00	198504	05/15/13
tert-Butyl Alcohol (TBA)	59,000	10,000	1,000	198614	05/17/13
Isopropyl Ether (DIPE)	ND	20	40.00	198504	05/15/13
Ethyl tert-Butyl Ether (ETBE)	ND	20	40.00	198504	05/15/13
Methyl tert-Amyl Ether (TAME)	2,200	20	40.00	198504	05/15/13
Ethanol	ND	40,000	40.00	198504	05/15/13
MTBE	40,000	500	1,000	198614	05/17/13
1,2-Dichloroethane	ND	20	40.00	198504	05/15/13
Benzene	ND	20	40.00	198504	05/15/13
Toluene	ND	20	40.00	198504	05/15/13
1,2-Dibromoethane	ND	20	40.00	198504	05/15/13
Ethylbenzene	ND	20	40.00	198504	05/15/13
m,p-Xylenes	ND	20	40.00	198504	05/15/13
o-Xylene	ND	20	40.00	198504	05/15/13
Naphthalene	ND	80	40.00	198504	05/15/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	95	77-134	40.00	198504	05/15/13
1,2-Dichloroethane-d4	102	72-140	40.00	198504	05/15/13
Toluene-d8	103	80-120	40.00	198504	05/15/13
Bromofluorobenzene	94	80-120	40.00	198504	05/15/13

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 245203	Location: 2844 Mountain Blvd, Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5082	Analysis: EPA 8260B
Field ID: DPT-5W-3	Batch#: 198504
Lab ID: 245203-022	Sampled: 05/09/13
Matrix: Water	Received: 05/10/13
Units: ug/L	Analyzed: 05/15/13
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	2.8	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
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	77-134
1,2-Dichloroethane-d4	104	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	198504
Units:	ug/L	Analyzed:	05/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC688749

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	103.9	83	37-144
Isopropyl Ether (DIPE)	25.00	22.87	91	52-123
Ethyl tert-Butyl Ether (ETBE)	25.00	22.77	91	57-120
Methyl tert-Amyl Ether (TAME)	25.00	24.94	100	59-120
MTBE	25.00	23.17	93	58-120
1,2-Dichloroethane	25.00	28.71	115	73-136
Benzene	25.00	26.19	105	78-125
Toluene	25.00	25.63	103	79-123
1,2-Dibromoethane	25.00	25.18	101	78-120
Ethylbenzene	25.00	26.62	106	80-126
m,p-Xylenes	50.00	51.66	103	80-123
o-Xylene	25.00	24.14	97	75-120
Naphthalene	25.00	26.04	104	56-136

Surrogate	%REC	Limits
Dibromofluoromethane	94	77-134
1,2-Dichloroethane-d4	113	72-140
Toluene-d8	99	80-120
Bromofluorobenzene	97	80-120

Type: BSD Lab ID: QC688750

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	98.39	79	37-144	5	31
Isopropyl Ether (DIPE)	25.00	22.12	88	52-123	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.42	90	57-120	2	23
Methyl tert-Amyl Ether (TAME)	25.00	23.92	96	59-120	4	22
MTBE	25.00	22.53	90	58-120	3	23
1,2-Dichloroethane	25.00	27.16	109	73-136	6	20
Benzene	25.00	25.22	101	78-125	4	20
Toluene	25.00	25.35	101	79-123	1	20
1,2-Dibromoethane	25.00	24.89	100	78-120	1	20
Ethylbenzene	25.00	26.26	105	80-126	1	20
m,p-Xylenes	50.00	51.44	103	80-123	0	20
o-Xylene	25.00	24.01	96	75-120	1	20
Naphthalene	25.00	24.73	99	56-136	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	77-134
1,2-Dichloroethane-d4	109	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	96	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC688751	Batch#:	198504
Matrix:	Water	Analyzed:	05/15/13
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
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	92	77-134
1,2-Dichloroethane-d4	103	72-140
Toluene-d8	103	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS

Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	198504
Units:	ug/L	Analyzed:	05/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC688757

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	944.1	94	80-120
Naphthalene		NA		

Surrogate	%REC	Limits
Dibromofluoromethane	93	77-134
1,2-Dichloroethane-d4	114	72-140
Toluene-d8	102	80-120
Bromofluorobenzene	98	80-120

Type: BSD Lab ID: QC688758

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	926.1	93	80-120	2	20
Naphthalene		NA				

Surrogate	%REC	Limits
Dibromofluoromethane	95	77-134
1,2-Dichloroethane-d4	114	72-140
Toluene-d8	101	80-120
Bromofluorobenzene	100	80-120

NA= Not Analyzed

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	198614
Units:	ug/L	Analyzed:	05/17/13
Diln Fac:	1.000		

Type: BS Lab ID: QC689192

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	109.3	87	37-144
Isopropyl Ether (DIPE)	25.00	22.17	89	52-123
Ethyl tert-Butyl Ether (ETBE)	25.00	22.79	91	57-120
Methyl tert-Amyl Ether (TAME)	25.00	24.75	99	59-120
MTBE	25.00	24.39	98	58-120
1,2-Dichloroethane	25.00	26.08	104	73-136
Benzene	25.00	27.87	111	78-125
Toluene	25.00	29.34	117	79-123
1,2-Dibromoethane	25.00	27.77	111	78-120
Ethylbenzene	25.00	29.64	119	80-126
m,p-Xylenes	50.00	57.68	115	80-123
o-Xylene	25.00	27.60	110	75-120
Naphthalene	25.00	26.93	108	56-136

Surrogate	%REC	Limits
Dibromofluoromethane	89	77-134
1,2-Dichloroethane-d4	90	72-140
Toluene-d8	97	80-120
Bromofluorobenzene	92	80-120

Type: BSD Lab ID: QC689193

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	103.5	83	37-144	5	31
Isopropyl Ether (DIPE)	25.00	19.23	77	52-123	14	20
Ethyl tert-Butyl Ether (ETBE)	25.00	20.08	80	57-120	13	23
Methyl tert-Amyl Ether (TAME)	25.00	22.99	92	59-120	7	22
MTBE	25.00	22.06	88	58-120	10	23
1,2-Dichloroethane	25.00	22.72	91	73-136	14	20
Benzene	25.00	25.27	101	78-125	10	20
Toluene	25.00	26.50	106	79-123	10	20
1,2-Dibromoethane	25.00	26.21	105	78-120	6	20
Ethylbenzene	25.00	27.23	109	80-126	8	20
m,p-Xylenes	50.00	54.31	109	80-123	6	20
o-Xylene	25.00	26.12	104	75-120	6	20
Naphthalene	25.00	25.72	103	56-136	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	89	77-134
1,2-Dichloroethane-d4	92	72-140
Toluene-d8	101	80-120
Bromofluorobenzene	94	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC689194	Batch#:	198614
Matrix:	Water	Analyzed:	05/17/13
Units:	ug/L		

Analyte	Result	RL
Gasoline C7-C12	NA	
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
Naphthalene	ND	2.0

Surrogate	%REC	Limits
Dibromofluoromethane	89	77-134
1,2-Dichloroethane-d4	94	72-140
Toluene-d8	100	80-120
Bromofluorobenzene	94	80-120

NA= Not Analyzed
 ND= Not Detected
 RL= Reporting Limit

Date : 15-MAY-2013 16:15

Client ID: DYNA P&T

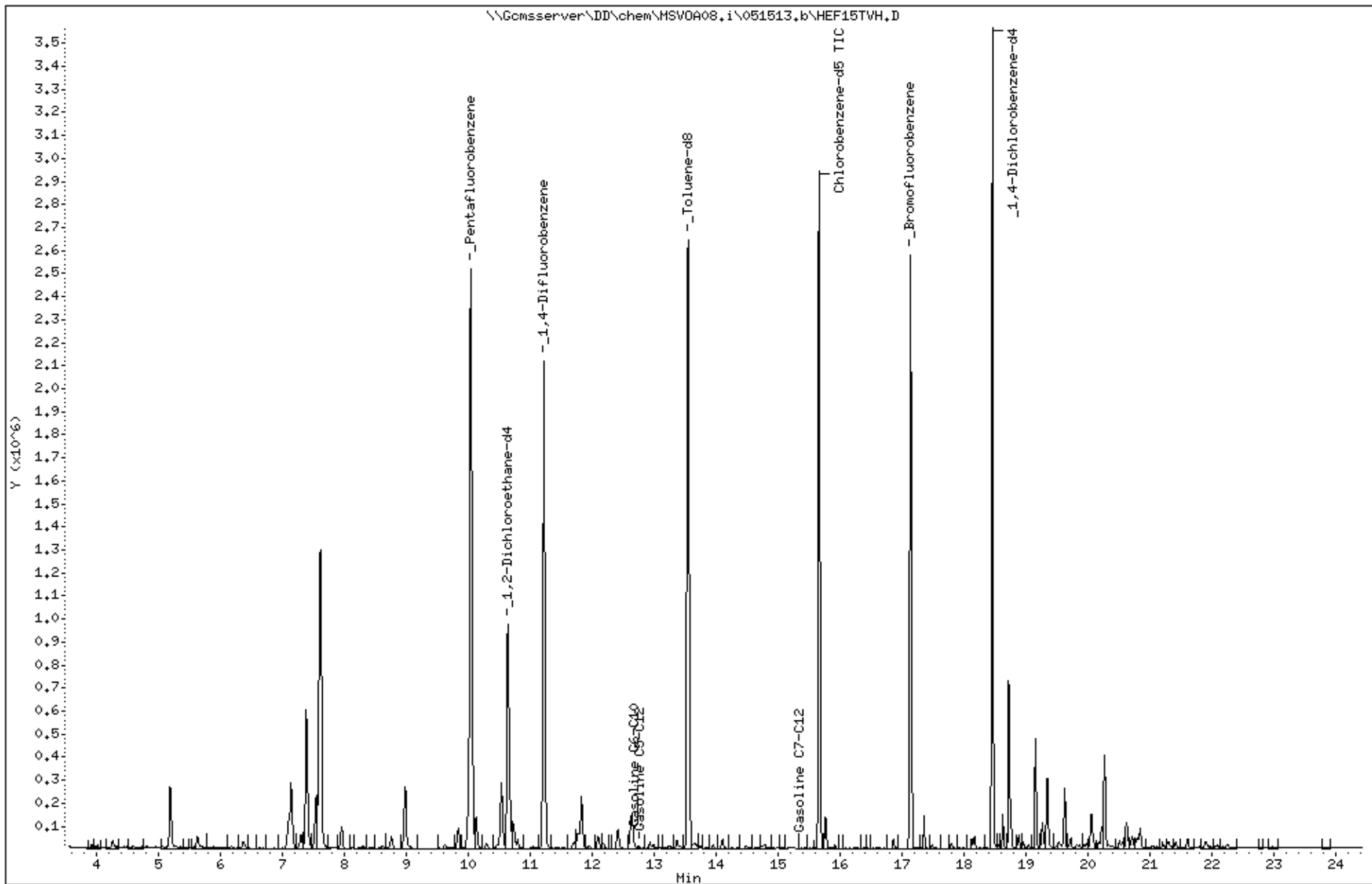
Sample Info: S,245203-020

Instrument: MSV0A08.i

Operator: VOC

Column diameter: 2.00

Column phase:



Date : 15-MAY-2013 10:46

Client ID: DYNA P&T

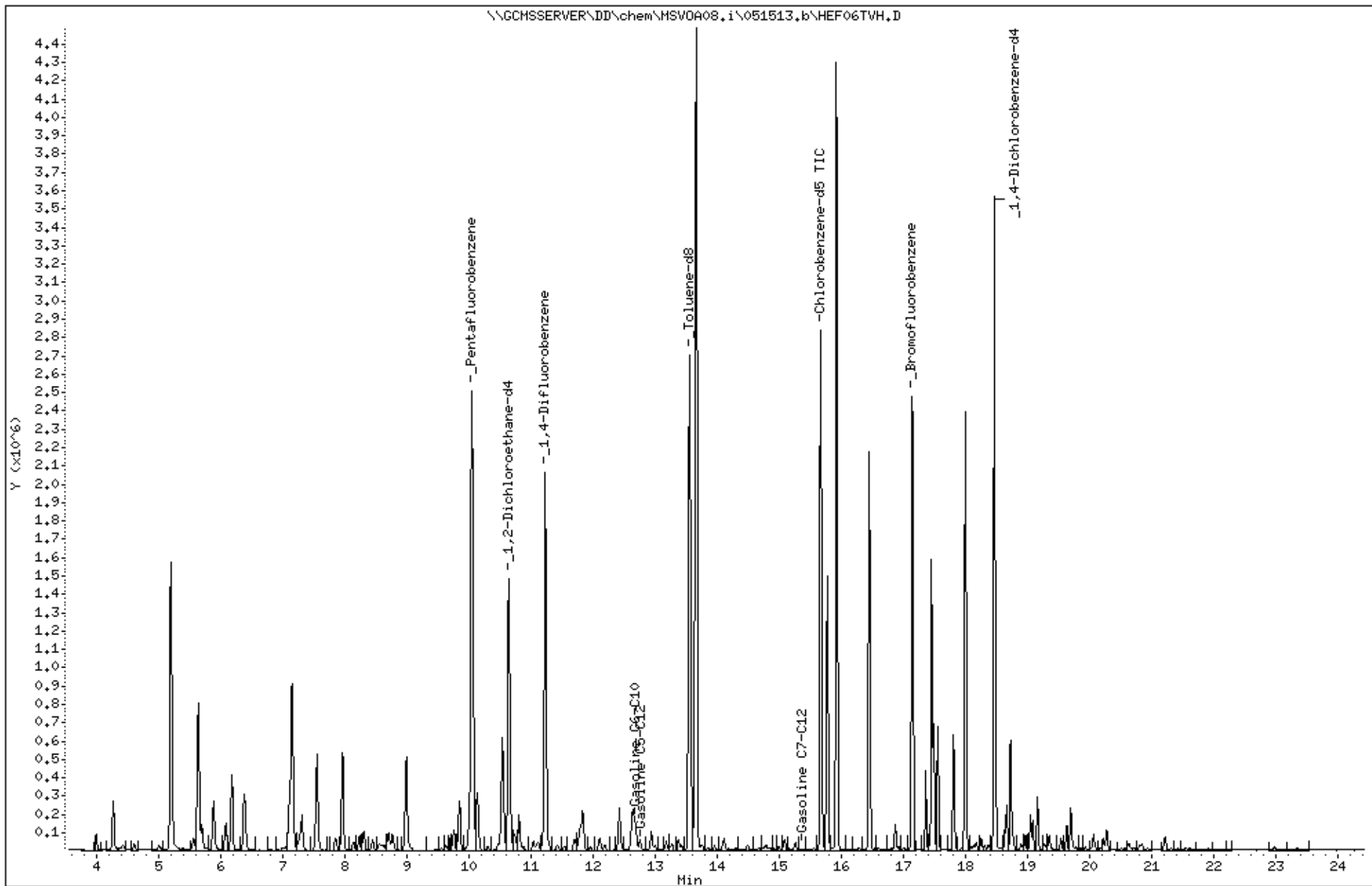
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Instrument: MSV0A08,i

Operator: VOC

Column diameter: 2,00

Column phase:



BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@4FT	Basis:	as received
Lab ID:	245203-001	Diln Fac:	50.00
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13

Analyte	Result	RL	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND b	5,000	198945	05/25/13
MTBE	2,600 b	250	198951	05/26/13
Isopropyl Ether (DIPE)	ND b	250	198951	05/26/13
Ethyl tert-Butyl Ether (ETBE)	ND b	250	198951	05/26/13
1,2-Dichloroethane	ND b	250	198951	05/26/13
Benzene	ND b	250	198951	05/26/13
Methyl tert-Amyl Ether (TAME)	1,000 b	250	198951	05/26/13
Ethanol	ND b	50,000	198951	05/26/13
Toluene	ND b	250	198951	05/26/13
1,2-Dibromoethane	ND b	250	198951	05/26/13
Ethylbenzene	ND b	250	198951	05/26/13
m,p-Xylenes	ND b	250	198951	05/26/13
o-Xylene	ND b	250	198951	05/26/13
Naphthalene	ND b	250	198951	05/26/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	101 b	80-124	198951	05/26/13
1,2-Dichloroethane-d4	101 b	80-137	198951	05/26/13
Toluene-d8	97 b	80-120	198951	05/26/13
Bromofluorobenzene	89 b	79-127	198951	05/26/13
Trifluorotoluene (MeOH)	109 b	46-140	198951	05/26/13

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@10FT	Diln Fac:	50.00
Lab ID:	245203-002	Batch#:	198577
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/16/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	5,000
MTBE	1,500	250
Isopropyl Ether (DIPE)	ND	250
Ethyl tert-Butyl Ether (ETBE)	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Methyl tert-Amyl Ether (TAME)	ND	250
Ethanol	ND	50,000
Toluene	ND	250
1,2-Dibromoethane	ND	250
Ethylbenzene	770	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Naphthalene	1,400	250

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	108	80-120
Bromofluorobenzene	103	79-127
Trifluorotoluene (MeOH)	100	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@12FT	Diln Fac:	50.00
Lab ID:	245203-003	Batch#:	198634
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/18/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	5,000
MTBE	3,100	250
Isopropyl Ether (DIPE)	ND	250
Ethyl tert-Butyl Ether (ETBE)	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Methyl tert-Amyl Ether (TAME)	360	250
Ethanol	ND	50,000
Toluene	ND	250
1,2-Dibromoethane	ND	250
Ethylbenzene	870	250
m,p-Xylenes	530	250
o-Xylene	ND	250
Naphthalene	580	250

Surrogate	%REC	Limits
Dibromofluoromethane	90	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	81	79-127
Trifluorotoluene (MeOH)	114	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@15FT	Batch#:	198577
Lab ID:	245203-004	Sampled:	05/09/13
Matrix:	Soil	Received:	05/10/13
Units:	ug/Kg	Analyzed:	05/16/13
Basis:	as received		

Analyte	Result	RL	Diln Fac
tert-Butyl Alcohol (TBA)	9,100	960	9.615
MTBE	73	25	5.000
Isopropyl Ether (DIPE)	ND	25	5.000
Ethyl tert-Butyl Ether (ETBE)	ND	25	5.000
1,2-Dichloroethane	ND	25	5.000
Benzene	ND	25	5.000
Methyl tert-Amyl Ether (TAME)	ND	25	5.000
Ethanol	ND	5,000	5.000
Toluene	ND	25	5.000
1,2-Dibromoethane	ND	25	5.000
Ethylbenzene	ND	25	5.000
m,p-Xylenes	ND	25	5.000
o-Xylene	ND	25	5.000
Naphthalene	ND	48	9.615

Surrogate	%REC	Limits	Diln Fac
Dibromofluoromethane	108	80-124	5.000
1,2-Dichloroethane-d4	103	80-137	5.000
Toluene-d8	105	80-120	5.000
Bromofluorobenzene	97	79-127	9.615

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@30FT	Diln Fac:	0.9434
Lab ID:	245203-006	Batch#:	198559
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/16/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	94
MTBE	6.3	4.7
Isopropyl Ether (DIPE)	ND	4.7
Ethyl tert-Butyl Ether (ETBE)	ND	4.7
1,2-Dichloroethane	ND	4.7
Benzene	ND	4.7
Methyl tert-Amyl Ether (TAME)	ND	4.7
Ethanol	ND	940
Toluene	ND	4.7
1,2-Dibromoethane	ND	4.7
Ethylbenzene	ND	4.7
m,p-Xylenes	ND	4.7
o-Xylene	ND	4.7
Naphthalene	ND	4.7

Surrogate	%REC	Limits
Dibromofluoromethane	119	80-124
1,2-Dichloroethane-d4	113	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	DPT-5@50FT	Diln Fac:	0.9804
Lab ID:	245203-008	Batch#:	198415
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/13/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	98
MTBE	ND	4.9
Isopropyl Ether (DIPE)	ND	4.9
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Methyl tert-Amyl Ether (TAME)	ND	4.9
Ethanol	ND	980
Toluene	ND	4.9
1,2-Dibromoethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Naphthalene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	105	80-124
1,2-Dichloroethane-d4	107	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	98	79-127

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-1@5FT	Diln Fac:	50.00
Lab ID:	245203-009	Batch#:	198970
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/27/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	6,200 b	5,000
MTBE	7,600 b	250
Isopropyl Ether (DIPE)	ND b	250
Ethyl tert-Butyl Ether (ETBE)	ND b	250
1,2-Dichloroethane	ND b	250
Benzene	ND b	250
Methyl tert-Amyl Ether (TAME)	450 b	250
Ethanol	ND b	50,000
Toluene	ND b	250
1,2-Dibromoethane	ND b	250
Ethylbenzene	ND b	250
m,p-Xylenes	ND b	250
o-Xylene	ND b	250
Naphthalene	ND b	250

Surrogate	%REC	Limits
Dibromofluoromethane	106 b	80-124
1,2-Dichloroethane-d4	109 b	80-137
Toluene-d8	109 b	80-120
Bromofluorobenzene	87 b	79-127
Trifluorotoluene (MeOH)	111 b	46-140

b= See narrative

ND= Not Detected

RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-1@10FT	Basis:	as received
Lab ID:	245203-010	Sampled:	05/09/13
Matrix:	Soil	Received:	05/10/13
Units:	ug/Kg		

Analyte	Result	RL	Diln Fac	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND	20,000	200.0	198509	05/15/13
MTBE	14,000	1,000	200.0	198509	05/15/13
Isopropyl Ether (DIPE)	ND	1,000	200.0	198509	05/15/13
Ethyl tert-Butyl Ether (ETBE)	ND	1,000	200.0	198509	05/15/13
1,2-Dichloroethane	ND	1,000	200.0	198509	05/15/13
Benzene	ND	1,000	200.0	198509	05/15/13
Methyl tert-Amyl Ether (TAME)	2,100	1,000	200.0	198509	05/15/13
Ethanol	ND	200,000	200.0	198509	05/15/13
Toluene	ND	1,000	200.0	198509	05/15/13
1,2-Dibromoethane	ND	1,000	200.0	198509	05/15/13
Ethylbenzene	22,000	1,000	200.0	198509	05/15/13
m,p-Xylenes	92,000	2,000	400.0	198577	05/16/13
o-Xylene	16,000	1,000	200.0	198509	05/15/13
Naphthalene	5,200	1,000	200.0	198509	05/15/13

Surrogate	%REC	Limits	Diln Fac	Batch#	Analyzed
Dibromofluoromethane	90	80-124	200.0	198509	05/15/13
1,2-Dichloroethane-d4	89	80-137	200.0	198509	05/15/13
Toluene-d8	96	80-120	200.0	198509	05/15/13
Bromofluorobenzene	95	79-127	200.0	198509	05/15/13
Trifluorotoluene (MeOH)	99	46-140	200.0	198509	05/15/13

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-1@12FT	Diln Fac:	400.0
Lab ID:	245203-011	Batch#:	198509
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/15/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	40,000
MTBE	7,700	2,000
Isopropyl Ether (DIPE)	ND	2,000
Ethyl tert-Butyl Ether (ETBE)	ND	2,000
1,2-Dichloroethane	ND	2,000
Benzene	ND	2,000
Methyl tert-Amyl Ether (TAME)	ND	2,000
Ethanol	ND	400,000
Toluene	5,600	2,000
1,2-Dibromoethane	ND	2,000
Ethylbenzene	19,000	2,000
m,p-Xylenes	89,000	2,000
o-Xylene	35,000	2,000
Naphthalene	5,300	2,000

Surrogate	%REC	Limits
Dibromofluoromethane	92	80-124
1,2-Dichloroethane-d4	88	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	96	79-127
Trifluorotoluene (MeOH)	96	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-1@15FT	Diln Fac:	100.0
Lab ID:	245203-012	Sampled:	05/09/13
Matrix:	Soil	Received:	05/10/13
Units:	ug/Kg	Analyzed:	05/26/13
Basis:	as received		

Analyte	Result	RL	Batch#
tert-Butyl Alcohol (TBA)	ND b	10,000	198945
MTBE	3,700 b	500	198951
Isopropyl Ether (DIPE)	ND b	500	198951
Ethyl tert-Butyl Ether (ETBE)	ND b	500	198951
1,2-Dichloroethane	ND b	500	198951
Benzene	ND b	500	198951
Methyl tert-Amyl Ether (TAME)	ND b	500	198951
Ethanol	ND b	100,000	198951
Toluene	1,700 b	500	198951
1,2-Dibromoethane	ND b	500	198951
Ethylbenzene	6,800 b	500	198951
m,p-Xylenes	30,000 b	500	198951
o-Xylene	12,000 b	500	198951
Naphthalene	3,200 b	500	198951

Surrogate	%REC	Limits	Batch#
Dibromofluoromethane	105 b	80-124	198951
1,2-Dichloroethane-d4	99 b	80-137	198951
Toluene-d8	98 b	80-120	198951
Bromofluorobenzene	90 b	79-127	198951
Trifluorotoluene (MeOH)	111 b	46-140	198951

b= See narrative
 ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-1@25FT	Diln Fac:	100.0
Lab ID:	245203-013	Batch#:	198577
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/16/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	10,000
MTBE	11,000	500
Isopropyl Ether (DIPE)	ND	500
Ethyl tert-Butyl Ether (ETBE)	ND	500
1,2-Dichloroethane	ND	500
Benzene	ND	500
Methyl tert-Amyl Ether (TAME)	600	500
Ethanol	ND	100,000
Toluene	ND	500
1,2-Dibromoethane	ND	500
Ethylbenzene	ND	500
m,p-Xylenes	ND	500
o-Xylene	ND	500
Naphthalene	ND	500

Surrogate	%REC	Limits
Dibromofluoromethane	82	80-124
1,2-Dichloroethane-d4	82	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	102	79-127
Trifluorotoluene (MeOH)	97	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-2@7FT	Basis:	as received
Lab ID:	245203-014	Diln Fac:	50.00
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13

Analyte	Result	RL	Batch#	Analyzed
tert-Butyl Alcohol (TBA)	ND b	5,000	198945	05/25/13
MTBE	390 b	250	198951	05/26/13
Isopropyl Ether (DIPE)	ND b	250	198951	05/26/13
Ethyl tert-Butyl Ether (ETBE)	ND b	250	198951	05/26/13
1,2-Dichloroethane	ND b	250	198951	05/26/13
Benzene	ND b	250	198951	05/26/13
Methyl tert-Amyl Ether (TAME)	ND b	250	198951	05/26/13
Ethanol	ND b	50,000	198951	05/26/13
Toluene	ND b	250	198951	05/26/13
1,2-Dibromoethane	ND b	250	198951	05/26/13
Ethylbenzene	ND b	250	198951	05/26/13
m,p-Xylenes	ND b	250	198951	05/26/13
o-Xylene	ND b	250	198951	05/26/13
Naphthalene	ND b	250	198951	05/26/13

Surrogate	%REC	Limits	Batch#	Analyzed
Dibromofluoromethane	104 b	80-124	198951	05/26/13
1,2-Dichloroethane-d4	100 b	80-137	198951	05/26/13
Toluene-d8	98 b	80-120	198951	05/26/13
Bromofluorobenzene	90 b	79-127	198951	05/26/13
Trifluorotoluene (MeOH)	104 b	46-140	198951	05/26/13

b= See narrative

ND= Not Detected

RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-2@10FT	Diln Fac:	250.0
Lab ID:	245203-015	Batch#:	198577
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/16/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	25,000
MTBE	14,000	1,300
Isopropyl Ether (DIPE)	ND	1,300
Ethyl tert-Butyl Ether (ETBE)	ND	1,300
1,2-Dichloroethane	ND	1,300
Benzene	ND	1,300
Methyl tert-Amyl Ether (TAME)	3,000	1,300
Ethanol	ND	250,000
Toluene	ND	1,300
1,2-Dibromoethane	ND	1,300
Ethylbenzene	18,000	1,300
m,p-Xylenes	63,000	1,300
o-Xylene	1,500	1,300
Naphthalene	5,900	1,300

Surrogate	%REC	Limits
Dibromofluoromethane	89	80-124
1,2-Dichloroethane-d4	84	80-137
Toluene-d8	93	80-120
Bromofluorobenzene	93	79-127
Trifluorotoluene (MeOH)	92	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-2@12FT	Diln Fac:	200.0
Lab ID:	245203-016	Batch#:	198577
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/16/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	20,000
MTBE	27,000	1,000
Isopropyl Ether (DIPE)	ND	1,000
Ethyl tert-Butyl Ether (ETBE)	ND	1,000
1,2-Dichloroethane	ND	1,000
Benzene	ND	1,000
Methyl tert-Amyl Ether (TAME)	4,800	1,000
Ethanol	ND	200,000
Toluene	ND	1,000
1,2-Dibromoethane	ND	1,000
Ethylbenzene	5,000	1,000
m,p-Xylenes	20,000	1,000
o-Xylene	7,000	1,000
Naphthalene	2,400	1,000

Surrogate	%REC	Limits
Dibromofluoromethane	81	80-124
1,2-Dichloroethane-d4	90	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	101	79-127
Trifluorotoluene (MeOH)	97	46-140

ND= Not Detected
 RL= Reporting Limit

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	MW-2@17FT	Diln Fac:	50.00
Lab ID:	245203-017	Batch#:	198634
Matrix:	Soil	Sampled:	05/09/13
Units:	ug/Kg	Received:	05/10/13
Basis:	as received	Analyzed:	05/18/13

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	14,000	5,000
MTBE	2,200	250
Isopropyl Ether (DIPE)	ND	250
Ethyl tert-Butyl Ether (ETBE)	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Methyl tert-Amyl Ether (TAME)	ND	250
Ethanol	ND	50,000
Toluene	ND	250
1,2-Dibromoethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Naphthalene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	83	79-127
Trifluorotoluene (MeOH)	121	46-140

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198415
Units:	ug/Kg	Analyzed:	05/13/13
Diln Fac:	1.000		

Type: BS Lab ID: QC688363

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	123.7	99	53-141
MTBE	25.00	22.73	91	65-121
Isopropyl Ether (DIPE)	25.00	21.34	85	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	21.74	87	62-121
1,2-Dichloroethane	25.00	24.75	99	74-133
Benzene	25.00	25.17	101	77-126
Methyl tert-Amyl Ether (TAME)	25.00	23.80	95	66-120
Toluene	25.00	23.80	95	76-124
1,2-Dibromoethane	25.00	24.67	99	78-120
Ethylbenzene	25.00	25.42	102	76-127
m,p-Xylenes	50.00	50.39	101	74-126
o-Xylene	25.00	23.70	95	70-120
Naphthalene	25.00	25.61	102	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	102	80-137
Toluene-d8	91	80-120
Bromofluorobenzene	93	79-127

Type: BSD Lab ID: QC688364

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.5	96	53-141	3	34
MTBE	25.00	22.23	89	65-121	2	22
Isopropyl Ether (DIPE)	25.00	21.40	86	57-122	0	26
Ethyl tert-Butyl Ether (ETBE)	25.00	21.51	86	62-121	1	28
1,2-Dichloroethane	25.00	24.31	97	74-133	2	23
Benzene	25.00	23.73	95	77-126	6	20
Methyl tert-Amyl Ether (TAME)	25.00	21.34	85	66-120	11	24
Toluene	25.00	23.24	93	76-124	2	26
1,2-Dibromoethane	25.00	26.41	106	78-120	7	20
Ethylbenzene	25.00	25.48	102	76-127	0	24
m,p-Xylenes	50.00	50.82	102	74-126	1	24
o-Xylene	25.00	24.47	98	70-120	3	22
Naphthalene	25.00	25.66	103	70-124	0	23

Surrogate	%REC	Limits
Dibromofluoromethane	101	80-124
1,2-Dichloroethane-d4	100	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	95	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC688365	Batch#:	198415
Matrix:	Soil	Analyzed:	05/13/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	100	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	91	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC688769	Batch#:	198509
Matrix:	Soil	Analyzed:	05/15/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	81	80-124
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	110	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198509
Units:	ug/Kg	Analyzed:	05/15/13
Diln Fac:	1.000		

Type: BS Lab ID: QC688770

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	106.2	106	53-141
MTBE	20.00	19.08	95	65-121
Isopropyl Ether (DIPE)	20.00	14.51	73	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.58	88	62-121
1,2-Dichloroethane	20.00	18.27	91	74-133
Benzene	20.00	16.54	83	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.73	99	66-120
Toluene	20.00	17.86	89	76-124
1,2-Dibromoethane	20.00	21.72	109	78-120
Ethylbenzene	20.00	19.60	98	76-127
m,p-Xylenes	40.00	37.06	93	74-126
o-Xylene	20.00	19.17	96	70-120
Naphthalene	20.00	23.48	117	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	92	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	99	79-127

Type: BSD Lab ID: QC688771

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	80.78	81	53-141	27	34
MTBE	20.00	17.29	86	65-121	10	22
Isopropyl Ether (DIPE)	20.00	14.03	70	57-122	3	26
Ethyl tert-Butyl Ether (ETBE)	20.00	16.47	82	62-121	7	28
1,2-Dichloroethane	20.00	17.79	89	74-133	3	23
Benzene	20.00	16.32	82	77-126	1	20
Methyl tert-Amyl Ether (TAME)	20.00	19.04	95	66-120	4	24
Toluene	20.00	18.59	93	76-124	4	26
1,2-Dibromoethane	20.00	20.29	101	78-120	7	20
Ethylbenzene	20.00	18.56	93	76-127	5	24
m,p-Xylenes	40.00	37.75	94	74-126	2	24
o-Xylene	20.00	18.64	93	70-120	3	22
Naphthalene	20.00	20.81	104	70-124	12	23

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-124
1,2-Dichloroethane-d4	93	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	98	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198559
Units:	ug/Kg	Analyzed:	05/16/13
Diln Fac:	1.000		

Type: BS Lab ID: QC688980

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	123.4	99	53-141
MTBE	25.00	23.78	95	65-121
Isopropyl Ether (DIPE)	25.00	24.98	100	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	24.25	97	62-121
1,2-Dichloroethane	25.00	25.89	104	74-133
Benzene	25.00	26.27	105	77-126
Methyl tert-Amyl Ether (TAME)	25.00	24.13	97	66-120
Toluene	25.00	25.42	102	76-124
1,2-Dibromoethane	25.00	23.14	93	78-120
Ethylbenzene	25.00	26.32	105	76-127
m,p-Xylenes	50.00	51.13	102	74-126
o-Xylene	25.00	23.36	93	70-120
Naphthalene	25.00	23.76	95	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	109	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	102	79-127

Type: BSD Lab ID: QC688981

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	112.8	90	53-141	9	34
MTBE	25.00	23.63	95	65-121	1	22
Isopropyl Ether (DIPE)	25.00	25.25	101	57-122	1	26
Ethyl tert-Butyl Ether (ETBE)	25.00	24.33	97	62-121	0	28
1,2-Dichloroethane	25.00	25.71	103	74-133	1	23
Benzene	25.00	25.87	103	77-126	2	20
Methyl tert-Amyl Ether (TAME)	25.00	23.24	93	66-120	4	24
Toluene	25.00	24.92	100	76-124	2	26
1,2-Dibromoethane	25.00	22.90	92	78-120	1	20
Ethylbenzene	25.00	25.96	104	76-127	1	24
m,p-Xylenes	50.00	50.09	100	74-126	2	24
o-Xylene	25.00	23.16	93	70-120	1	22
Naphthalene	25.00	23.73	95	70-124	0	23

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	106	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	102	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC688982	Batch#:	198559
Matrix:	Soil	Analyzed:	05/16/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	113	80-124
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	104	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC689041	Batch#:	198577
Matrix:	Soil	Analyzed:	05/16/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	101	80-120
Bromofluorobenzene	106	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198577
Units:	ug/Kg	Analyzed:	05/16/13
Diln Fac:	1.000		

Type: BS Lab ID: QC689042

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	93.99	94	53-141
MTBE	20.00	19.09	95	65-121
Isopropyl Ether (DIPE)	20.00	14.38	72	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	17.32	87	62-121
1,2-Dichloroethane	20.00	19.07	95	74-133
Benzene	20.00	17.12	86	77-126
Methyl tert-Amyl Ether (TAME)	20.00	19.40	97	66-120
Toluene	20.00	18.98	95	76-124
1,2-Dibromoethane	20.00	23.07	115	78-120
Ethylbenzene	20.00	20.99	105	76-127
m,p-Xylenes	40.00	41.04	103	74-126
o-Xylene	20.00	20.28	101	70-120
Naphthalene	20.00	22.23	111	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	103	79-127

Type: BSD Lab ID: QC689043

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	84.69	85	53-141	10	34
MTBE	20.00	18.60	93	65-121	3	22
Isopropyl Ether (DIPE)	20.00	14.28	71	57-122	1	26
Ethyl tert-Butyl Ether (ETBE)	20.00	17.02	85	62-121	2	28
1,2-Dichloroethane	20.00	19.65	98	74-133	3	23
Benzene	20.00	17.50	88	77-126	2	20
Methyl tert-Amyl Ether (TAME)	20.00	19.74	99	66-120	2	24
Toluene	20.00	18.74	94	76-124	1	26
1,2-Dibromoethane	20.00	21.80	109	78-120	6	20
Ethylbenzene	20.00	20.28	101	76-127	3	24
m,p-Xylenes	40.00	39.70	99	74-126	3	24
o-Xylene	20.00	19.12	96	70-120	6	22
Naphthalene	20.00	19.93	100	70-124	11	23

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	99	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	103	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198634
Units:	ug/Kg	Analyzed:	05/17/13
Diln Fac:	1.000		

Type: BS Lab ID: QC689272

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	96.99	78	53-141
MTBE	25.00	20.32	81	65-121
Isopropyl Ether (DIPE)	25.00	22.96	92	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	21.23	85	62-121
1,2-Dichloroethane	25.00	33.19 b	133	74-133
Benzene	25.00	26.69	107	77-126
Methyl tert-Amyl Ether (TAME)	25.00	24.15	97	66-120
Toluene	25.00	22.92	92	76-124
1,2-Dibromoethane	25.00	25.86	103	78-120
Ethylbenzene	25.00	23.97	96	76-127
m,p-Xylenes	50.00	46.48	93	74-126
o-Xylene	25.00	20.94	84	70-120
Naphthalene	25.00	23.62	94	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	95	80-120
Bromofluorobenzene	84	79-127

Type: BSD Lab ID: QC689273

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	77.08	62	53-141	23	34
MTBE	25.00	19.13	77	65-121	6	22
Isopropyl Ether (DIPE)	25.00	21.57	86	57-122	6	26
Ethyl tert-Butyl Ether (ETBE)	25.00	20.34	81	62-121	4	28
1,2-Dichloroethane	25.00	30.22 b	121	74-133	9	23
Benzene	25.00	26.08	104	77-126	2	20
Methyl tert-Amyl Ether (TAME)	25.00	22.19	89	66-120	8	24
Toluene	25.00	22.79	91	76-124	1	26
1,2-Dibromoethane	25.00	22.95	92	78-120	12	20
Ethylbenzene	25.00	23.31	93	76-127	3	24
m,p-Xylenes	50.00	44.24	88	74-126	5	24
o-Xylene	25.00	20.01	80	70-120	5	22
Naphthalene	25.00	20.04	80	70-124	16	23

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	88	79-127

b= See narrative
 RPD= Relative Percent Difference
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Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC689281	Batch#:	198634
Matrix:	Soil	Analyzed:	05/17/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	86	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198945
Units:	ug/Kg	Analyzed:	05/25/13
Diln Fac:	1.000		

Type: BS Lab ID: QC690578

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	134.0	107	53-141
MTBE	25.00	25.99	104	65-121
Isopropyl Ether (DIPE)	25.00	23.57	94	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	25.35	101	62-121
1,2-Dichloroethane	25.00	20.52	82	74-133
Benzene	25.00	24.19	97	77-126
Methyl tert-Amyl Ether (TAME)	25.00	25.60	102	66-120
Toluene	25.00	25.02	100	76-124
1,2-Dibromoethane	25.00	28.26	113	78-120
Ethylbenzene	25.00	25.29	101	76-127
m,p-Xylenes	50.00	51.19	102	74-126
o-Xylene	25.00	26.16	105	70-120
Naphthalene	25.00	29.85	119	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	99	80-124
1,2-Dichloroethane-d4	75 *	80-137
Toluene-d8	91	80-120
Bromofluorobenzene	98	79-127

Type: BSD Lab ID: QC690579

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	116.5	93	53-141	14	34
MTBE	25.00	25.17	101	65-121	3	22
Isopropyl Ether (DIPE)	25.00	23.02	92	57-122	2	26
Ethyl tert-Butyl Ether (ETBE)	25.00	25.15	101	62-121	1	28
1,2-Dichloroethane	25.00	19.66	79	74-133	4	23
Benzene	25.00	22.65	91	77-126	7	20
Methyl tert-Amyl Ether (TAME)	25.00	23.72	95	66-120	8	24
Toluene	25.00	24.55	98	76-124	2	26
1,2-Dibromoethane	25.00	27.58	110	78-120	2	20
Ethylbenzene	25.00	25.35	101	76-127	0	24
m,p-Xylenes	50.00	51.01	102	74-126	0	24
o-Xylene	25.00	26.79	107	70-120	2	22
Naphthalene	25.00	28.41	114	70-124	5	23

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-124
1,2-Dichloroethane-d4	73 *	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	100	79-127

*= Value outside of QC limits; see narrative

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC690580	Batch#:	198945
Matrix:	Soil	Analyzed:	05/25/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	104	80-124
1,2-Dichloroethane-d4	83	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	111	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198951
Units:	ug/Kg	Analyzed:	05/25/13
Diln Fac:	1.000		

Type: BS Lab ID: QC690600

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	86.78 b	69	53-141
MTBE	25.00	20.75	83	65-121
Isopropyl Ether (DIPE)	25.00	20.48	82	57-122
Ethyl tert-Butyl Ether (ETBE)	25.00	20.33	81	62-121
1,2-Dichloroethane	25.00	25.90	104	74-133
Benzene	25.00	26.58	106	77-126
Methyl tert-Amyl Ether (TAME)	25.00	20.46	82	66-120
Toluene	25.00	27.18	109	76-124
1,2-Dibromoethane	25.00	24.62	98	78-120
Ethylbenzene	25.00	27.64	111	76-127
m,p-Xylenes	50.00	54.84	110	74-126
o-Xylene	25.00	25.03	100	70-120
Naphthalene	25.00	24.39	98	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-124
1,2-Dichloroethane-d4	95	80-137
Toluene-d8	99	80-120
Bromofluorobenzene	90	79-127

Type: BSD Lab ID: QC690601

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	83.60 b	67	53-141	4	34
MTBE	25.00	19.77	79	65-121	5	22
Isopropyl Ether (DIPE)	25.00	20.31	81	57-122	1	26
Ethyl tert-Butyl Ether (ETBE)	25.00	19.99	80	62-121	2	28
1,2-Dichloroethane	25.00	26.15	105	74-133	1	23
Benzene	25.00	27.12	108	77-126	2	20
Methyl tert-Amyl Ether (TAME)	25.00	20.88	84	66-120	2	24
Toluene	25.00	26.62	106	76-124	2	26
1,2-Dibromoethane	25.00	23.92	96	78-120	3	20
Ethylbenzene	25.00	26.97	108	76-127	2	24
m,p-Xylenes	50.00	52.37	105	74-126	5	24
o-Xylene	25.00	24.11	96	70-120	4	22
Naphthalene	25.00	24.85	99	70-124	2	23

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-124
1,2-Dichloroethane-d4	98	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	89	79-127

b= See narrative
 RPD= Relative Percent Difference
 Page 1 of 1

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC690602	Batch#:	198951
Matrix:	Soil	Analyzed:	05/25/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	101	80-137
Toluene-d8	100	80-120
Bromofluorobenzene	91	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	198951
MSS Lab ID:	245575-004	Sampled:	05/24/13
Matrix:	Soil	Received:	05/24/13
Units:	ug/Kg	Analyzed:	05/25/13
Basis:	as received		

Type: MS
Lab ID: QC690606

Diln Fac: 0.9141

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<3.561	228.5	121.4 b	53	42-135
MTBE	<0.3098	45.70	39.53	86	51-120
Isopropyl Ether (DIPE)	<0.1680	45.70	41.93	92	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.3136	45.70	41.12	90	49-120
1,2-Dichloroethane	<0.3423	45.70	55.56	122	53-122
Benzene	<0.3812	45.70	57.48	126 *	54-121
Methyl tert-Amyl Ether (TAME)	<0.5024	45.70	43.51	95	50-120
Toluene	<1.043	45.70	52.47	115	47-120
1,2-Dibromoethane	<0.3333	45.70	43.91	96	50-120
Ethylbenzene	<0.3041	45.70	55.25	121	42-122
m,p-Xylenes	<0.5829	91.41	104.7	115	39-120
o-Xylene	<0.3313	45.70	49.16	108	39-120
Naphthalene	<0.5296	45.70	33.52	73	15-120

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-124
1,2-Dichloroethane-d4	105	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	90	79-127

Type: MSD
Lab ID: QC690607

Diln Fac: 0.9311

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	232.8	145.5 b	63	42-135	16	53
MTBE	46.55	42.75	92	51-120	6	43
Isopropyl Ether (DIPE)	46.55	43.50	93	45-120	2	45
Ethyl tert-Butyl Ether (ETBE)	46.55	41.99	90	49-120	0	46
1,2-Dichloroethane	46.55	54.45	117	53-122	4	41
Benzene	46.55	57.25	123 *	54-121	2	43
Methyl tert-Amyl Ether (TAME)	46.55	42.45	91	50-120	4	43
Toluene	46.55	53.06	114	47-120	1	53
1,2-Dibromoethane	46.55	44.56	96	50-120	0	44
Ethylbenzene	46.55	54.99	118	42-122	2	52
m,p-Xylenes	93.11	104.6	112	39-120	2	54
o-Xylene	46.55	47.94	103	39-120	4	54
Naphthalene	46.55	39.93	86	15-120	16	62

Surrogate	%REC	Limits
Dibromofluoromethane	108	80-124
1,2-Dichloroethane-d4	104	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	91	79-127

*= Value outside of QC limits; see narrative

b= See narrative

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC690682	Batch#:	198970
Matrix:	Soil	Analyzed:	05/27/13
Units:	ug/Kg		

Analyte	Result	RL
tert-Butyl Alcohol (TBA)	ND	100
MTBE	ND	5.0
Isopropyl Ether (DIPE)	ND	5.0
Ethyl tert-Butyl Ether (ETBE)	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Methyl tert-Amyl Ether (TAME)	ND	5.0
Ethanol	ND	1,000
Toluene	ND	5.0
1,2-Dibromoethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Naphthalene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-124
1,2-Dichloroethane-d4	124	80-137
Toluene-d8	102	80-120
Bromofluorobenzene	92	79-127

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	198970
Units:	ug/Kg	Analyzed:	05/27/13
Diln Fac:	1.000		

Type: BS Lab ID: QC690683

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	100.0	97.19	97	53-141
MTBE	20.00	20.48	102	65-121
Isopropyl Ether (DIPE)	20.00	18.42	92	57-122
Ethyl tert-Butyl Ether (ETBE)	20.00	18.91	95	62-121
1,2-Dichloroethane	20.00	24.23	121	74-133
Benzene	20.00	21.76	109	77-126
Methyl tert-Amyl Ether (TAME)	20.00	18.97	95	66-120
Toluene	20.00	20.78	104	76-124
1,2-Dibromoethane	20.00	22.69	113	78-120
Ethylbenzene	20.00	21.17	106	76-127
m,p-Xylenes	40.00	41.97	105	74-126
o-Xylene	20.00	19.73	99	70-120
Naphthalene	20.00	19.61	98	70-124

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-124
1,2-Dichloroethane-d4	116	80-137
Toluene-d8	96	80-120
Bromofluorobenzene	87	79-127

Type: BSD Lab ID: QC690684

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	100.0	86.21	86	53-141	12	34
MTBE	20.00	17.90	89	65-121	13	22
Isopropyl Ether (DIPE)	20.00	16.77	84	57-122	9	26
Ethyl tert-Butyl Ether (ETBE)	20.00	16.80	84	62-121	12	28
1,2-Dichloroethane	20.00	24.02	120	74-133	1	23
Benzene	20.00	22.17	111	77-126	2	20
Methyl tert-Amyl Ether (TAME)	20.00	18.10	91	66-120	5	24
Toluene	20.00	20.95	105	76-124	1	26
1,2-Dibromoethane	20.00	21.35	107	78-120	6	20
Ethylbenzene	20.00	21.37	107	76-127	1	24
m,p-Xylenes	40.00	41.27	103	74-126	2	24
o-Xylene	20.00	19.04	95	70-120	4	22
Naphthalene	20.00	21.24	106	70-124	8	23

Surrogate	%REC	Limits
Dibromofluoromethane	114	80-124
1,2-Dichloroethane-d4	115	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	89	79-127

RPD= Relative Percent Difference

Batch QC Report

BTXE & Oxygenates			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5082	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	198970
MSS Lab ID:	245582-001	Sampled:	05/24/13
Matrix:	Soil	Received:	05/24/13
Units:	ug/Kg	Analyzed:	05/28/13
Basis:	as received		

Type: MS
Lab ID: QC690688

Diln Fac: 0.9058

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<3.700	226.4	141.7 b	63	42-135
MTBE	<0.3219	45.29	34.60	76	51-120
Isopropyl Ether (DIPE)	<0.1745	45.29	40.95	90	45-120
Ethyl tert-Butyl Ether (ETBE)	<0.3259	45.29	40.95	90	49-120
1,2-Dichloroethane	<0.3557	45.29	51.46	114	53-122
Benzene	<0.3960	45.29	48.27	107	54-121
Methyl tert-Amyl Ether (TAME)	<0.5219	45.29	43.26	96	50-120
Toluene	<1.084	45.29	47.27	104	47-120
1,2-Dibromoethane	<0.3463	45.29	50.86	112	50-120
Ethylbenzene	<0.3159	45.29	48.97	108	42-122
m,p-Xylenes	<0.6056	90.58	93.55	103	39-120
o-Xylene	<0.3442	45.29	42.59	94	39-120
Naphthalene	<0.5503	45.29	49.94	110	15-120

Surrogate	%REC	Limits
Dibromofluoromethane	111	80-124
1,2-Dichloroethane-d4	112	80-137
Toluene-d8	98	80-120
Bromofluorobenzene	85	79-127

Type: MSD
Lab ID: QC690689

Diln Fac: 0.8961

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	224.0	155.1 b	69	42-135	10	53
MTBE	44.80	38.45	86	51-120	12	43
Isopropyl Ether (DIPE)	44.80	36.06	80	45-120	12	45
Ethyl tert-Butyl Ether (ETBE)	44.80	36.54	82	49-120	10	46
1,2-Dichloroethane	44.80	46.86	105	53-122	8	41
Benzene	44.80	44.34	99	54-121	7	43
Methyl tert-Amyl Ether (TAME)	44.80	38.62	86	50-120	10	43
Toluene	44.80	44.63	100	47-120	5	53
1,2-Dibromoethane	44.80	47.57	106	50-120	6	44
Ethylbenzene	44.80	45.09	101	42-122	7	52
m,p-Xylenes	89.61	88.34	99	39-120	5	54
o-Xylene	44.80	41.09	92	39-120	2	54
Naphthalene	44.80	47.60	106	15-120	4	62

Surrogate	%REC	Limits
Dibromofluoromethane	106	80-124
1,2-Dichloroethane-d4	111	80-137
Toluene-d8	97	80-120
Bromofluorobenzene	87	79-127

b= See narrative
RPD= Relative Percent Difference
Page 1 of 1

Cadmium			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3050B
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Cadmium	Diln Fac:	1.000
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13
Basis:	as received		

Field ID	Type	Lab ID	Result	RL	Batch#	Prepared	Analyzed
DPT-5@4FT	SAMPLE	245203-001	ND	0.23	198938	05/24/13	05/28/13
DPT-5@10FT	SAMPLE	245203-002	ND	0.23	198496	05/14/13	05/15/13
DPT-5@12FT	SAMPLE	245203-003	ND	0.24	198496	05/14/13	05/15/13
DPT-5@15FT	SAMPLE	245203-004	ND	0.24	198496	05/14/13	05/15/13
DPT-5@30FT	SAMPLE	245203-006	ND	0.25	198496	05/14/13	05/15/13
DPT-5@50FT	SAMPLE	245203-008	ND	0.22	198496	05/14/13	05/15/13
MW-1@5FT	SAMPLE	245203-009	ND	0.23	198938	05/24/13	05/28/13
MW-1@10FT	SAMPLE	245203-010	ND	0.24	198496	05/14/13	05/15/13
MW-1@12FT	SAMPLE	245203-011	ND	0.23	198496	05/14/13	05/15/13
MW-1@15FT	SAMPLE	245203-012	ND	0.23	198938	05/24/13	05/29/13
MW-1@25FT	SAMPLE	245203-013	ND	0.23	198496	05/14/13	05/15/13
MW-2@7FT	SAMPLE	245203-014	ND	0.23	198938	05/24/13	05/29/13
MW-2@10FT	SAMPLE	245203-015	ND	0.24	198496	05/14/13	05/15/13
MW-2@12FT	SAMPLE	245203-016	ND	0.23	198496	05/14/13	05/15/13
MW-2@17FT	SAMPLE	245203-017	ND	0.24	198496	05/14/13	05/15/13
	BLANK	QC688713	ND	0.25	198496	05/14/13	05/15/13
	BLANK	QC690546	ND	0.25	198938	05/24/13	05/28/13

ND= Not Detected
 RL= Reporting Limit

Nickel			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3050B
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Basis:	as received
Matrix:	Soil	Sampled:	05/09/13
Units:	mg/Kg	Received:	05/10/13

Field ID	Type	Lab ID	Result	RL	Diln Fac	Batch#	Prepared	Analyzed
DPT-5@4FT	SAMPLE	245203-001	1,600	23	100.0	198938	05/24/13	05/30/13
DPT-5@10FT	SAMPLE	245203-002	1,900	23	100.0	198496	05/14/13	05/20/13
DPT-5@12FT	SAMPLE	245203-003	1,300	24	100.0	198496	05/14/13	05/20/13
DPT-5@15FT	SAMPLE	245203-004	1,100	24	100.0	198496	05/14/13	05/20/13
DPT-5@30FT	SAMPLE	245203-006	910	25	100.0	198496	05/14/13	05/20/13
DPT-5@50FT	SAMPLE	245203-008	1,100	22	100.0	198496	05/14/13	05/20/13
MW-1@5FT	SAMPLE	245203-009	1,100	23	100.0	198938	05/24/13	05/30/13
MW-1@10FT	SAMPLE	245203-010	920	24	100.0	198496	05/14/13	05/21/13
MW-1@12FT	SAMPLE	245203-011	1,700	23	100.0	198496	05/14/13	05/20/13
MW-1@15FT	SAMPLE	245203-012	1,300	23	100.0	198938	05/24/13	05/30/13
MW-1@25FT	SAMPLE	245203-013	780	23	100.0	198496	05/14/13	05/20/13
MW-2@7FT	SAMPLE	245203-014	820	23	100.0	198938	05/24/13	05/30/13
MW-2@10FT	SAMPLE	245203-015	1,800	24	100.0	198496	05/14/13	05/20/13
MW-2@12FT	SAMPLE	245203-016	1,400	23	100.0	198496	05/14/13	05/20/13
MW-2@17FT	SAMPLE	245203-017	960	24	100.0	198496	05/14/13	05/20/13
	BLANK	QC688713	ND	0.25	1.000	198496	05/14/13	05/15/13
	BLANK	QC690546	ND	0.25	1.000	198938	05/24/13	05/28/13

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Cadmium			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3050B
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Cadmium	Basis:	as received
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked Result	%REC	Limits	RPD	Lim	Batch#	Sampled	Received	Prepared	Analyzed
	BS		QC688714		10.00	10.38	104	80-120		198496			05/14/13	05/15/13
	BSD		QC688715		10.00	10.80	108	80-120	4	20	198496		05/14/13	05/15/13
DPT-5@10FT	MS	245203-002	QC688716	<0.01453	9.091	8.580	94	69-120			198496	05/09/13	05/10/13	05/14/13 05/15/13
DPT-5@10FT	MSD	245203-002	QC688717		9.524	8.823	93	69-120	2	23	198496	05/09/13	05/10/13	05/14/13 05/15/13
	BS		QC690547		10.00	10.24	102	80-120			198938			05/24/13 05/28/13
	BSD		QC690548		10.00	10.19	102	80-120	0	20	198938			05/24/13 05/28/13
ZZZZZZZZZZ	MS	245554-001	QC690549	0.1355	9.259	8.861	94	69-120			198938	05/23/13	05/24/13	05/24/13 05/28/13
ZZZZZZZZZZ	MSD	245554-001	QC690550		8.929	8.485	94	69-120	1	23	198938	05/23/13	05/24/13	05/24/13 05/28/13

RPD= Relative Percent Difference

Batch QC Report

Nickel			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakl.
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3050B
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Basis:	as received
Matrix:	Soil	Diln Fac:	1.000
Units:	mg/Kg		

Field ID	Type	MSS Lab ID	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Batch#	Sampled	Received	Prepared	Analyzed
	BS		QC688714		25.00	25.24	101	80-120			198496			05/14/13	05/15/13
	BSD		QC688715		25.00	26.20	105	80-120	4	20	198496			05/14/13	05/15/13
DPT-5@10FT	MS	245203-002	QC688716	1,903	22.73	1,286 >LR	-2714 NM	45-134			198496	05/09/13	05/10/13	05/14/13	05/15/13
DPT-5@10FT	MSD	245203-002	QC688717		23.81	898.8 >LR	-4216 NM	45-134	NC	38	198496	05/09/13	05/10/13	05/14/13	05/15/13
	BS		QC690547		25.00	24.66	99	80-120			198938			05/24/13	05/28/13
	BSD		QC690548		25.00	24.60	98	80-120	0	20	198938			05/24/13	05/28/13
ZZZZZZZZZZ	MS	245554-001	QC690549	21.86	23.15	44.09	96	45-134			198938	05/23/13	05/24/13	05/24/13	05/28/13
ZZZZZZZZZZ	MSD	245554-001	QC690550		22.32	42.45	92	45-134	2	38	198938	05/23/13	05/24/13	05/24/13	05/28/13

NC= Not Calculated

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

>LR= Response exceeds instrument's linear range

RPD= Relative Percent Difference



Dissolved Cadmium			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Cadmium	Batch#:	198551
Matrix:	Filtrate	Received:	05/10/13
Units:	ug/L	Prepared:	05/15/13
Diln Fac:	1.000	Analyzed:	05/16/13

Field ID	Type	Lab ID	Result	RL	Sampled
DPT-5W-1	SAMPLE	245203-020	ND	5.0	05/09/13
DPT-5W-2	SAMPLE	245203-021	ND	5.0	05/10/13
DPT-5W-3	SAMPLE	245203-022	ND	5.0	05/09/13
	BLANK	QC688946	ND	5.0	

ND= Not Detected
 RL= Reporting Limit

Dissolved Nickel			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	198551
Matrix:	Filtrate	Received:	05/10/13
Units:	ug/L	Prepared:	05/15/13
Diln Fac:	1.000	Analyzed:	05/16/13

Field ID	Type	Lab ID	Result	RL	Sampled
DPT-5W-1	SAMPLE	245203-020	48	5.0	05/09/13
DPT-5W-2	SAMPLE	245203-021	24	5.0	05/10/13
DPT-5W-3	SAMPLE	245203-022	ND	5.0	05/09/13
	BLANK	QC688946	ND	5.0	

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Dissolved Cadmium			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Cadmium	Batch#:	198551
Field ID:	ZZZZZZZZZZ	Sampled:	05/09/13
MSS Lab ID:	245139-003	Received:	05/09/13
Matrix:	Filtrate	Prepared:	05/15/13
Units:	ug/L	Analyzed:	05/16/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC688947		50.00	53.58	107	80-120		
BSD	QC688948		50.00	52.94	106	80-120	1	20
MS	QC688949	1.293	50.00	54.26	106	72-121		
MSD	QC688950		50.00	54.21	106	72-121	0	20

RPD= Relative Percent Difference

Batch QC Report

Dissolved Nickel			
Lab #:	245203	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	METHOD
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	198551
Field ID:	ZZZZZZZZZZ	Sampled:	05/09/13
MSS Lab ID:	245139-003	Received:	05/09/13
Matrix:	Filtrate	Prepared:	05/15/13
Units:	ug/L	Analyzed:	05/16/13
Diln Fac:	1.000		

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim
BS	QC688947		500.0	516.4	103	80-120		
BSD	QC688948		500.0	507.0	101	80-120	2	20
MS	QC688949	198.5	500.0	669.0	94	73-120		
MSD	QC688950		500.0	674.6	95	73-120	1	20

RPD= Relative Percent Difference



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

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

Laboratory Job Number 246398
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. 6620 Owens Dr. Pleasanton, CA 94588	Project : 5082 Location : 2844 Mountain Blvd, Oakland Level : II
---	--

Sample ID
COMP

Lab ID
246398-001

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
(510) 204-2226

Date: 06/27/2013

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 246398
Client: SOMA Environmental Engineering Inc.
Project: 5082
Location: 2844 Mountain Blvd, Oakland
Request Date: 06/21/13
Samples Received: 06/21/13

This data package contains sample and QC results for one soil sample, requested for the above referenced project on 06/21/13. The sample was received cold and intact.

Metals (EPA 6010B):

No analytical problems were encountered.

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

LOGIN # 246399

Sampler: Lizzie Hightower

Project No: 5082

Report To: Joyce Bobek

Project Name: 2844 Mountain Blvd., Oakland

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

*	STLC (Nickel)																						

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
	COMP		*			9 oz jar				*

Notes: EDF OUTPUT REQUIRED
cold amt

RELINQUISHED BY:
[Signature]
 DATE/TIME: 6/21/13 16:25

DATE/TIME

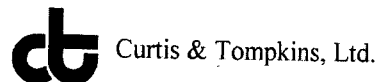
DATE/TIME

RECEIVED BY:
[Signature]
 DATE/TIME: 6/21/13 16:25

DATE/TIME

DATE/TIME

COOLER RECEIPT CHECKLIST



Login # 246348 Date Received 6/21/13 Number of coolers 1
 Client SOMT Project S202

Date Opened 6/21/13 By (print) MG (sign) [Signature]
 Date Logged in [Signature] By (print) [Signature] (sign) [Signature]

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

Nickel			
Lab #:	246398	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	WET
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	199995
Field ID:	COMP	Sampled:	06/21/13
Matrix:	WET Leachate	Received:	06/21/13
Units:	ug/L	Prepared:	06/24/13
Diln Fac:	10.00	Analyzed:	06/24/13

Type	Lab ID	Result	RL
SAMPLE	246398-001	15,000	250
BLANK	QC694871	ND	250

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Nickel			
Lab #:	246398	Location:	2844 Mountain Blvd, Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	WET
Project#:	5082	Analysis:	EPA 6010B
Analyte:	Nickel	Batch#:	199995
Field ID:	ZZZZZZZZZZ	Sampled:	06/19/13
MSS Lab ID:	246392-001	Received:	06/19/13
Matrix:	WET Leachate	Prepared:	06/24/13
Units:	ug/L	Analyzed:	06/24/13

Type	Lab ID	MSS Result	Spiked	Result	%REC	Limits	RPD	Lim	Diln	Fac
BS	QC694872		500.0	496.6	99	80-120				1.000
BSD	QC694873		500.0	493.9	99	80-120	1	20		1.000
MS	QC694874	640.5	2,500	2,963	93	73-120				10.00
MSD	QC694875		2,500	2,965	93	73-120	0	20		10.00

RPD= Relative Percent Difference

APPENDIX D

MONITORING WELL DEVELOPMENT LOGS AND WELL SURVEY REPORT

DATE: 5/28/2013
JOB# 13004

**TABLE OF ELEVATIONS & COORDINATES
ON MONITORING WELLS**
SOMA ENVIRONMENTAL ENGINEERING
2844 MOUNTAIN BLVD
OAKLAND, CA 94602

WELL ID #	NORTHING (FT.) / LATITUDE (D.DEG.)	EASTING (FT.) / LONGITUDE (D.DEG.)	ELEVATION (FT.)	DESCRIPTION
MW-1	2122404.169	6071174.709	674.92	SET NOTCH N. SIDE 4" PVC
	N37.81151896	W122.1980061	675.50	SET PUNCH N. SIDE
			675.49	NORTH SIDE AC
MW-2	2122393.627	6071186.912	675.02	SET NOTCH N. SIDE 4" PVC
	N37.81149062	W122.1979632	675.53	SET PUNCH N. SIDE
			675.51	
RS-3	2122442.569	6071215.114	676.08	SET NOTCH N. SIDE 4" PVC
	N37.81162641	W122.1978687	676.47	SET PUNCH N. SIDE
			676.38	NORTH SIDE AC
RS-4	2122379.611	6071195.421	675.27	TOP 4" PVC
	N37.81145256	W122.1979329	675.70	SET PUNCH N. SIDE
			675.59	NORTH SIDE AC

HORIZONTAL CONTROL: CALIFORNIA COORDINATE SYSTEM ZONE 3, NAD83.

ELLIPSOID: WGS 1984
EPOCH: NAD_83 (2011) 2010.0000
GEOID MODEL: GEOID12A

VERTICAL CONTROL: BENCH MARK: CITY OF OAKLAND BM 2806
CINCH NAIL IN SOUTHWESTERLY CURB OF MOUNTAIN BLVD, 150' SOUTHEASTERLY FROM THE CENTERLINE OF KEARNEY AVE EXTENDED. NORTHING 2,122,547.687', EASTING 6,070,956.301' ELEVATION= 674.892' NAVD 88 DATUM



EQUIPMENT USED: TRIMBLE GPS-R8 & TS S6, TOPCON AT-G2 LEVEL

E. Espinoza
6/03/13


EDGIS LAND SURVEYING
LAND SURVEYING AND MAPPING
1374 Garland Avenue, Clovis, CA 93612
Phone (559) 803-2679
email: edgis@aol.com

APPENDIX E

WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. SOM13-0125	2. Page 1 of 1
3. Generator's Name and Mailing Address		DESERT Petroleum 2844 Mountain Blvd. Oakland CA			
4. Generator's Phone ()					
5. Transporter 1 Company Name		6. US EPA ID Number		A. State Transporter's ID	
Instrat Inc				B. Transporter 1 Phone (707) 374-3834	
7. Transporter 2 Company Name		8. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
9. Designated Facility Name and Site Address		10. US EPA ID Number		E. State Facility's ID	
INSTRAT, INC. 1105 C AIRPORT RD. RIO VISTA, CA 94571				F. Facility's Phone (707) 374-3834	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
			No.	Type	
a. NON-HAZ DRILL CUTTINGS			4	DRM	4000 lb
b. NON-HAZ Decon / Purge WATER			3	DRM	150 gal
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
Color - BRN. ODOR - S Solids - DRY					
15. Special Handling Instructions and Additional Information					
					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
Date					
Month Day Year					
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
JASON NOBLE				<i>[Signature]</i>	
Date					
Month Day Year				6 28 13	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Signature	
Date					
Month Day Year					
19. Discrepancy Indication Space					
20. Facility Owner or Operator; Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name				Signature	
ISI Patrick McLaughlin				<i>[Signature]</i>	
Date					
Month Day Year				6 28 13	

NON-HAZARDOUS WASTE

