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ENVIRONMENTAL ENGINEERING, INC.
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July 8, 2011

Mr. Paresh C. Khatri
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Subject: Site Location: 6501 Shattuck Avenue, Oakland, CA
Fuel Leak Case No. RO0003066

Dear Mr. Khatri :

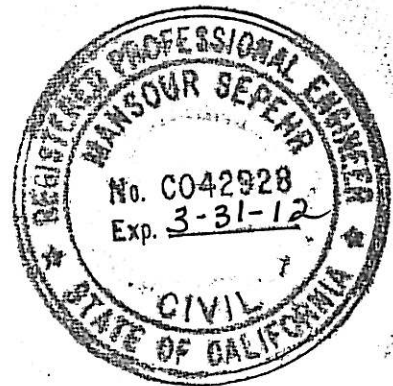
SOMA's "Soil and Groundwater Investigation Report" for the subject site has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

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

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

cc: Mr. Athan Magganas w/report enclosure



Soil and Groundwater Investigation Report

**6501 Shattuck Avenue,
Oakland, California**

July 8, 2011

Project 5032

Prepared for:

**Bruder LLC
2550 Appian Way, Suite 201
Pinole, California**



ENVIRONMENTAL ENGINEERING, INC.

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PERJURY STATEMENT

Site Location: 6601 Shattuck Avenue, 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".

 7/7/11

Athan Magganas
Manager Bruder LLC
2550 Appian Way, Suite 201
Pinole, California 94564
Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this document for Bruder LLC, at the request of Bruder LLC manager Mr. Athan Magganas, for the property located at 6501 Shattuck Avenue, Oakland, California. This report was prepared in response to Alameda County Health Care Services correspondence dated February 10, 2011 and May 12, 2011.



Mansour Sepehr, PhD, PE
Principal Hydrogeologist

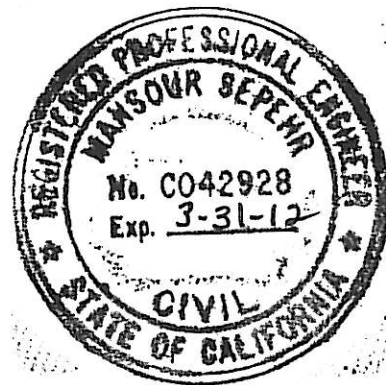


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1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) conducted an additional soil and groundwater assessment and prepared this report at the request of Bruder LLC manager Mr. Athan Magganas, for the property located 6501 Shattuck Avenue, Oakland, California. This report was prepared in response to Alameda County Health Care Services (ACHCS) approval correspondence dated February 10, 2011 and May 12, 2011. This correspondence pertains to SOMA's workplan addendum entitled "Addendum to Interim Remedial Excavation and Proposed Soil and Groundwater Investigation" dated December 13, 2010 and correspondence dated March 14, 2011, entitled "Revised Site Figure". The site map is shown in Figure 1.

1.1 Site History and Use

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

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

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

1.2 Geologic and Hydrogeologic Conditions

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

The following is documented in this report:

- Detailed description of boring advancement
- Detailed descriptions of all field activities
- Tabulation of analytical data
- Evaluation of soil and groundwater analytical results

2. SCOPE OF WORK

During the preliminary soil and groundwater investigation conducted in July 2010, SOMA advanced three soil borings, SB-1 through SB-3, and duplicate boring SB-3D, and collected soil and groundwater samples for analysis of total petroleum hydrocarbons (TPHs), volatile organic compounds (VOCs), and metals. Based on results of shallow soil and groundwater investigation conducted in the vicinity of the former USTs, it was determined that petroleum-hydrocarbon contamination exists in groundwater beneath the site. TPH contaminants were detected at concentrations above Environmental Screening Levels (ESLs) for residential exposure scenario where groundwater is a current or potential source of drinking water.

Based on ACHCS directives dated February 10, 2011 and May 12, 2011, SOMA advanced six additional soil boreholes (B-4 through B-9) in order to determine the extent of soil and groundwater contamination at the site.

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 six soil borings
- Task 3: Laboratory analysis of soil and groundwater samples
- Task 4: Evaluation of appropriateness of well screening intervals
- Task 5: Preparation of site investigation report and recommendations for future actions at the site

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

Prior to initiating field activities, SOMA obtained a drilling permit from Alameda County Public Works Agency (ACPWA) (Appendix A). ACHCS was given the required minimum 72-hour notice in advance of drilling on June 8, 2011 and ACPWA was contacted on June 7, 2011 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 June 8, 2011, 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 June 8, 2011 (Ticket 179916). A private utility locator (OHJ Subsurface Utility) surveyed proposed drilling areas on the same day to locate any additional subsurface conduits.

2.2 Advancement of Soil Borings

On June 10, 2011, a C-57 licensed driller RSI Drilling (under SOMA's oversight) advanced six soil borings (B-4 through B-9) for collection of soil and groundwater samples. Four soil borings (B-4 through B-7) were located in the vicinity of previous excavation. Boring B-8 was located 10 feet east of previously installed boring SB-1. B-9 was located approximately 20 feet west of proposed boring B-5. Boring locations are shown in Figure 2. Borings were advanced approximately 20 to 25 feet below ground surface (bgs).

Due to access limitations, manual drilling utilizing a hand auger was employed for boring B-4. The hand auger consisted of extendable steel rods, rotated by a handle. During boring advancement, the auger was rotated to cut into the ground and then withdrawn to remove excavated material. The procedure was repeated until the required depth was reached. SOMA utilized a soil core sampler to allow recovery of an intact soil core from the soil surface. A sturdy push-tube was manually advanced into soil using a slide hammer. An internal stainless steel liner captured the recovered soil intact. End caps were used immediately to minimize loss of volatile compounds.

Direct Push Technology (DPT) was utilized for all other 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. Upon review of analytical data, two additional samples, collected from borings B-7 and B-9, were also selected for analysis to fully delineate the vertical extent of soil contamination. Field notes summarizing observed PID readings are attached in Appendix B.

2.3 Site Geology

Observed subsurface soils consisted of sandy silts, lean clays, and sandy clays and clayey sands. Encountered subsurface lithologies were recorded on geologic borehole logs (Appendix B). The contents of each sediment-filled tube were screened using a PID at each screened depth and results were noted on respective boring logs. PID responds to all molecules with ionization potential below 10.6eV, including aromatics and molecules with carbon double bonds. Detected PID readings, summarized on boring logs (Appendix B), ranged between 0 ppm and 522 ppm (detected in boring B-9 at 7 feet bgs).

2.4 Groundwater Sample Collection Procedures

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

All borings were decommissioned on June 10, 2011 except for B-6, which was secured and left open to allow for groundwater accumulation. B-6 was decommissioned on June 16, 2011 after collection of respective groundwater sample. Each borehole was decommissioned according to Cal/EPA guidelines with a neat-cement grout mixture.

2.5 Laboratory Analysis

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

- TPH as gasoline (TPH-g), TPH as diesel (TPH-d), and TPH as motor oil (TPH-mo)
- VOCs full list including benzene, toluene, ethylbenzene, total xylenes (collectively termed as BTEX) and methyl-tertiary butyl ether (MtBE)

TPH-g, TPH-d, and TPH-mo in soil and groundwater were analyzed using USEPA Method 8015B. VOCs in soil and groundwater were analyzed using USEPA Method 8260B.

2.6 Soil and Groundwater Sampling Results

2.6.1 Groundwater Analytical Results

TPH-g and TPH-d were below laboratory-reporting limits in all groundwater samples except B-7 (located downgradient from existing excavation), where they were detected at 160 µg/L and 61 µg/L, respectively. Contour maps showing current as well as historical (from borings SB-1 through SB-3) TPH-g and TPH-d concentrations are included in Figures 3 and 4. TPH-mo and MtBE were below laboratory-reporting limits in all groundwater samples. BTEX analytes were detected only in B-7 at 1.1 µg/L, 0.9 µg/L, 1.2 µg/L, and 0.9 µg/L, respectively. Figure 5 displays the contour map of benzene concentrations in groundwater, including SB-1 through SB-3 historical analytical results. The only other VOC detected was 1,2-dichloroethane (1,2-DCA), detected at 1.2 µg/L in boring B-5. The maximum TPH-g concentration was detected in one of the earlier soil borings SB-3, advanced beneath the existing excavation, at 4,000 µg/L, and the maximum TPH-d and benzene were detected at 11,000 µg/L and 59 µg/L, in borings SB-3 and SB-2, respectively. These results indicate that existing PHC plume is still largely situated below the area of existing excavation.

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

2.6.2 Soil Analytical Results

During this investigation, all analytes were detected below laboratory-reporting limits or ESLs in analyzed soil samples except for TPH-g, which was detected in borings B-7 and B-9 above ESLs. In B-7, TPH-g was detected at 10 feet bgs at 180 mg/kg. In B-9, TPH-g was detected at 8 feet bgs at 140 mg/kg. The laboratory noted that the some of the samples exhibited a chromatographic pattern which did not resemble standard. A contour map showing TPH-g concentrations in soil between 7 and 12 feet bgs during the current and previous soil sampling is shown in Figure 6. Maximum TPH-g concentration was detected during previous site investigation in boring SB-2 at 510 mg/kg at 9 feet below ground surface. Table 4 summarizes current and historical soil analytical results; the current analytical report is contained in Appendix C.

3. CONCLUSIONS AND RECOMMENDATIONS

- SOMA advanced six soil borings, B-4 through B-9, and collected soil and groundwater samples for analysis of TPHs and VOCs. Based on results of soil and groundwater investigation conducted in the vicinity of the former USTs, it was determined that petroleum-hydrocarbon contamination still exists in soil and groundwater beneath the site.

- Based on current soil sampling, and as proposed in earlier SOMA correspondence, further soil over-excavation is necessary to remove residual soil contamination. During the proposed over-excavation, areas around confirmation soil samples (EX-3-W-W through WX-3-E-W) as well as soil borings SB-2, B-7 and B-9 should be over-excavated. Tables 2 and 4 illustrate the recommended depth of over-excavation at each sampling location (Figure 8). Since it is SOMA's understanding that some earth-moving activities have taken place since the majority of these samples were collected, SOMA proposes conducting a land survey which at minimum will aid in determining which locations have already been over-excavated and which have not. Historical contour figures, illustrating contaminant levels in confirmation samples collected after removal of USTs, are included in Appendix D.
- As proposed in SOMA's earlier correspondence (October 20, 2010 and December 13, 2010), once the final excavation extent has been reached, SOMA proposes conducting a systematic confirmation soil sampling at the site. Confirmation soil samples at minimum should be collected from the bottom of over-excavation area at a density of one sample per 20-foot by 20-foot area; more frequent sampling may be recommended in areas of former soil contamination with sufficient samples collected at intervals of approximately 20 linear feet in all directions around the border of the excavation area, to document that the vertical and horizontal extent of contaminated soil has been removed. To minimize volatilization during proposed confirmation soil sampling, at each sidewall sampling location, approximately one-half foot of top soil should be removed and a slide hammer sampler should be used to advance the sampling tube into the native soil. Sidewall samples should be collected from areas of historical or apparent current contamination. During confirmation sampling, an internal liner should capture and hold the recovered soil intact. To eliminate cross-contamination between the soil boring locations, all soil-sampling equipment should be decontaminated before the start of sample collection at each location. Soil samples should be, at minimum, analyzed for compounds previously detected on-site above the ESL.
- Based on results of this investigation, SOMA proposes proceeding with the originally proposed well installation once all over-excavation activities are complete. Proposed well installation details were outlined in SOMA's "Addendum to Interim Remedial Excavation and Proposed Soil and Groundwater Investigation," dated December 13, 2010. Since the groundwater flow is westerly to southwesterly toward San Francisco Bay, based on data from sites in the general site vicinity (e.g., groundwater monitoring at 6407 Telegraph Avenue, Oakland), at this time installation of three groundwater monitoring wells, located up- and downgradient of former USTs, is recommended to determine the extent of groundwater

impact at the site. Figure 7 shows proposed locations of groundwater monitoring wells.

FIGURES

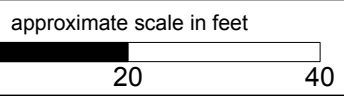
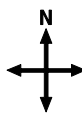
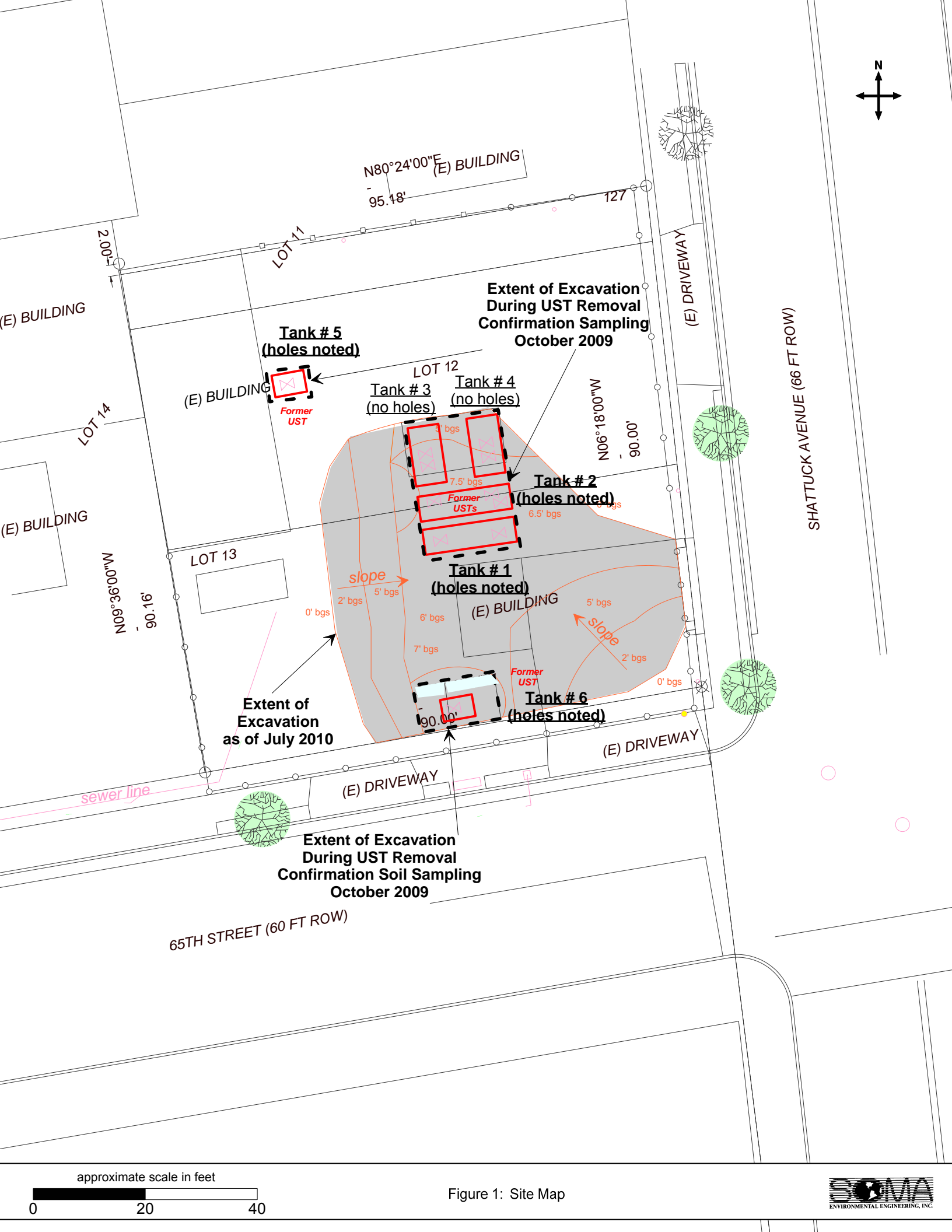


Figure 1: Site Map

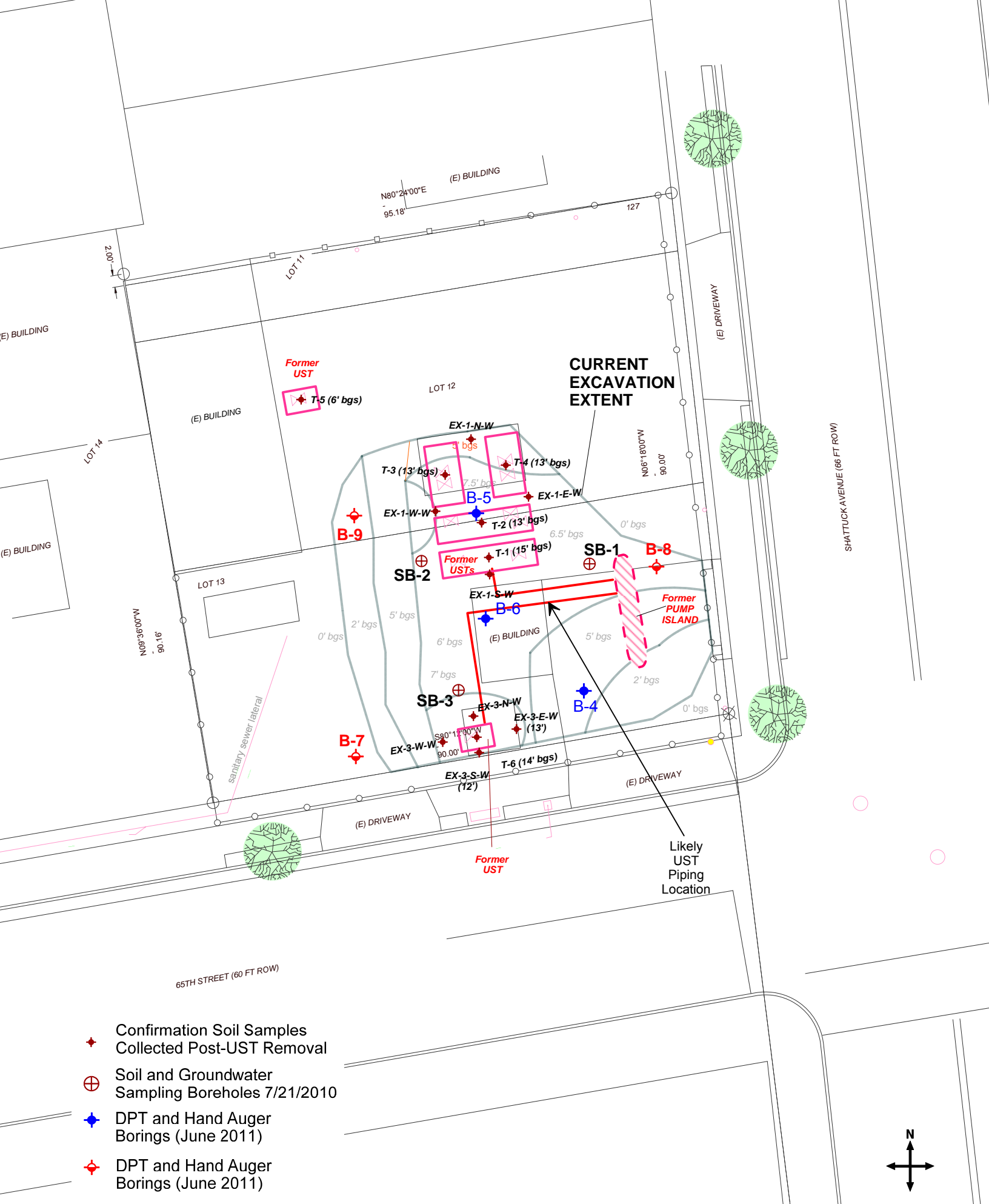


Figure 2: Site Map Showing Locations of Borings

2996 SHATTUCK AVENUE-
groundwater flow predominantly
westerly, DTW 2.3-8.5' bgs

6407 TELEGRAPH-
groundwater flow southwest,
DTW 5-8' bgs

← estimated groundwater
flow direction

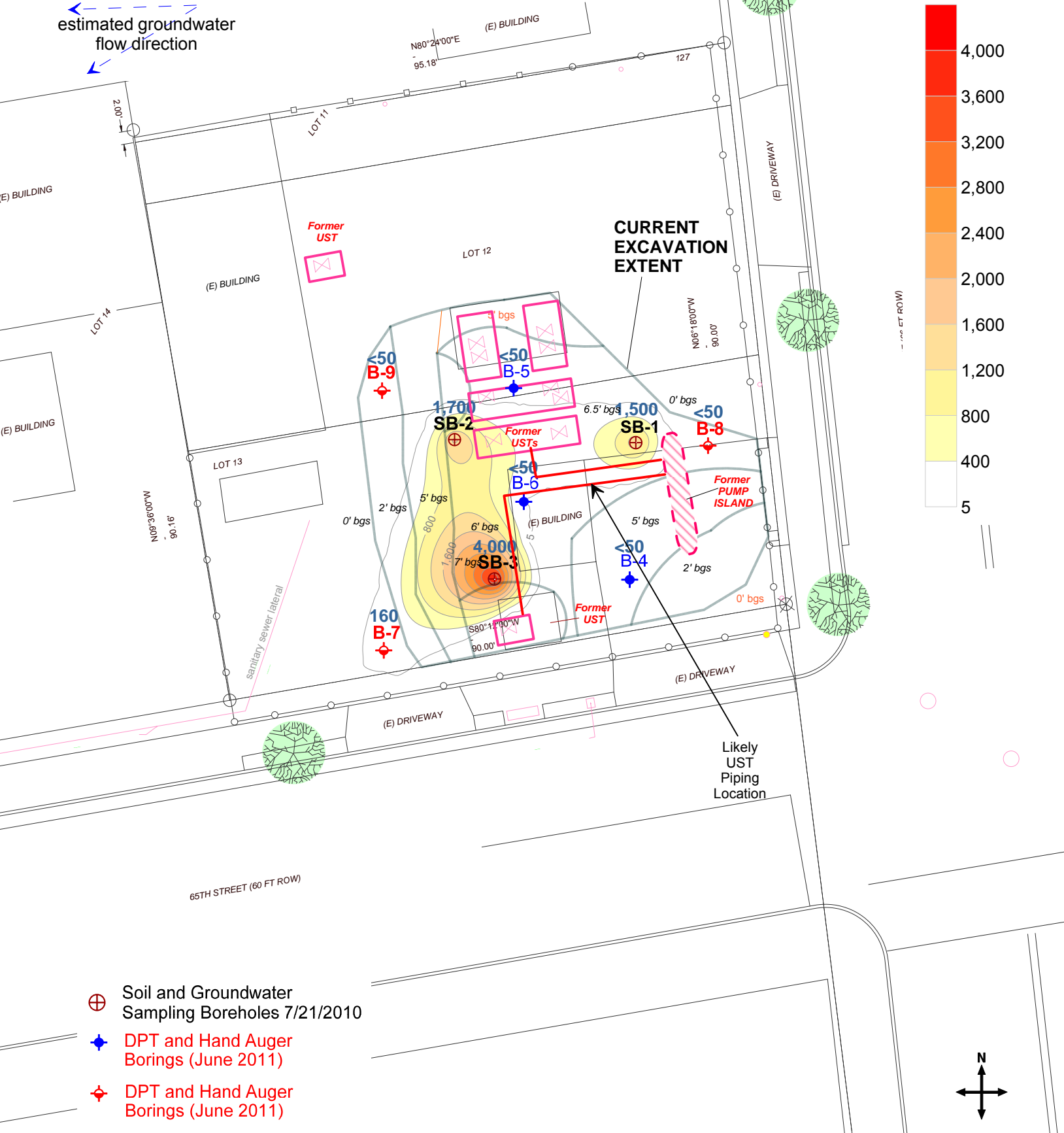
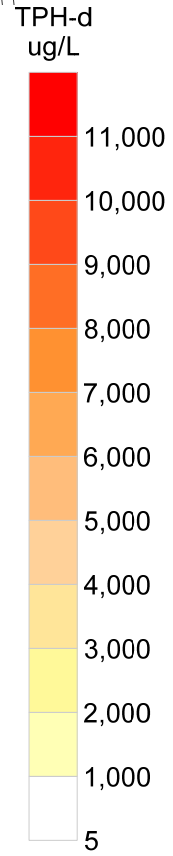
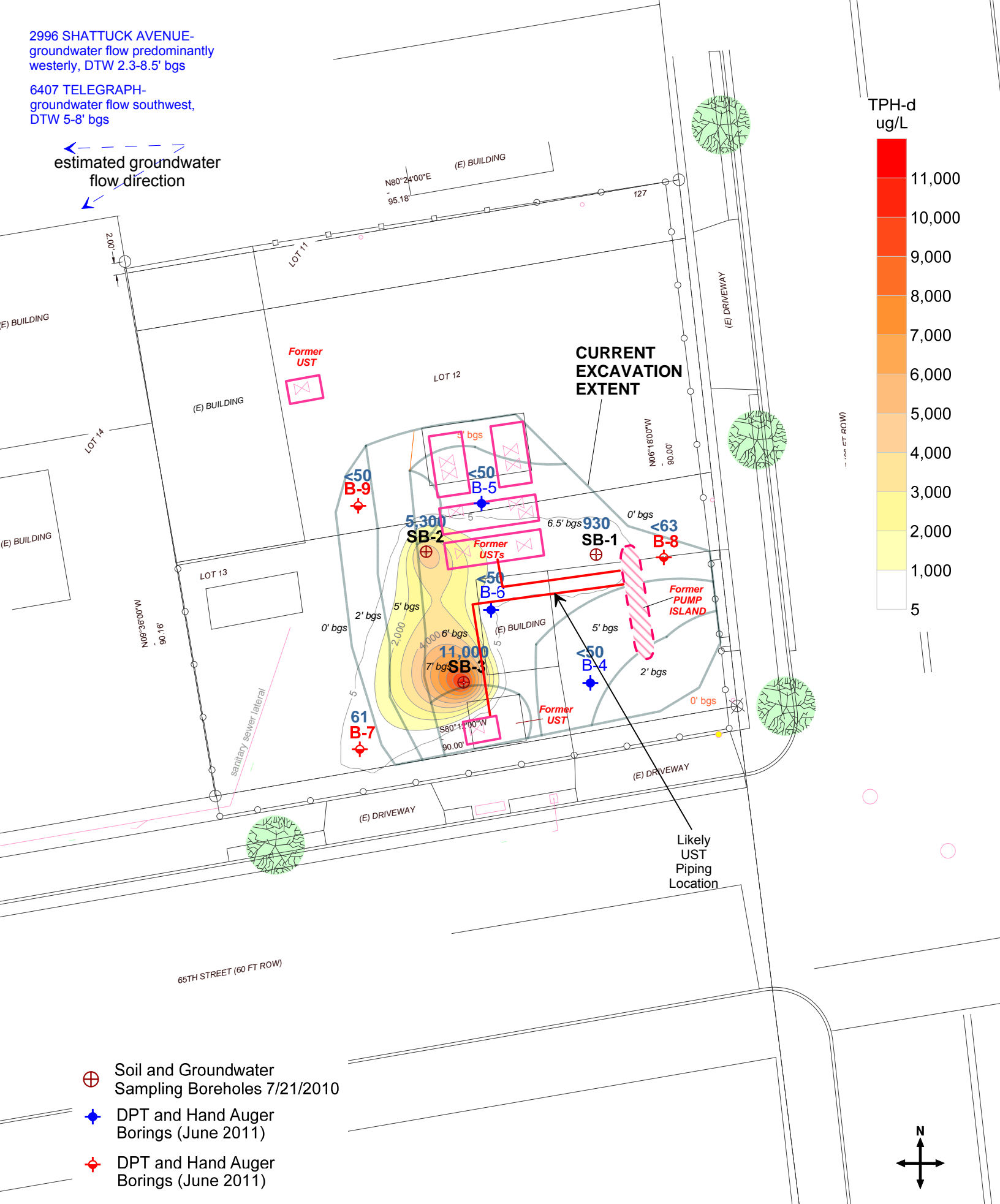


Figure 3: Contour map showing TPH-g concentrations in groundwater

2996 SHATTUCK AVENUE-
groundwater flow predominantly
westerly, DTW 2.3-8.5' bgs

6407 TELEGRAPH-
groundwater flow southwest,
DTW 5-8' bgs

← estimated groundwater
flow direction



- ⊕ Soil and Groundwater Sampling Boreholes 7/21/2010
- ◆ DPT and Hand Auger Borings (June 2011)
- ◆ DPT and Hand Auger Borings (June 2011)

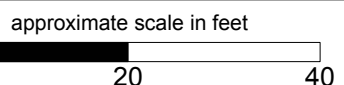


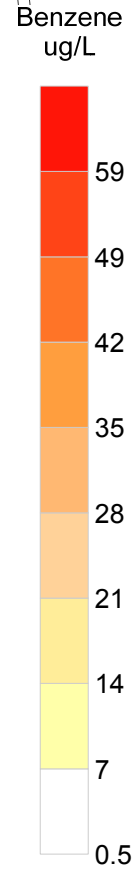
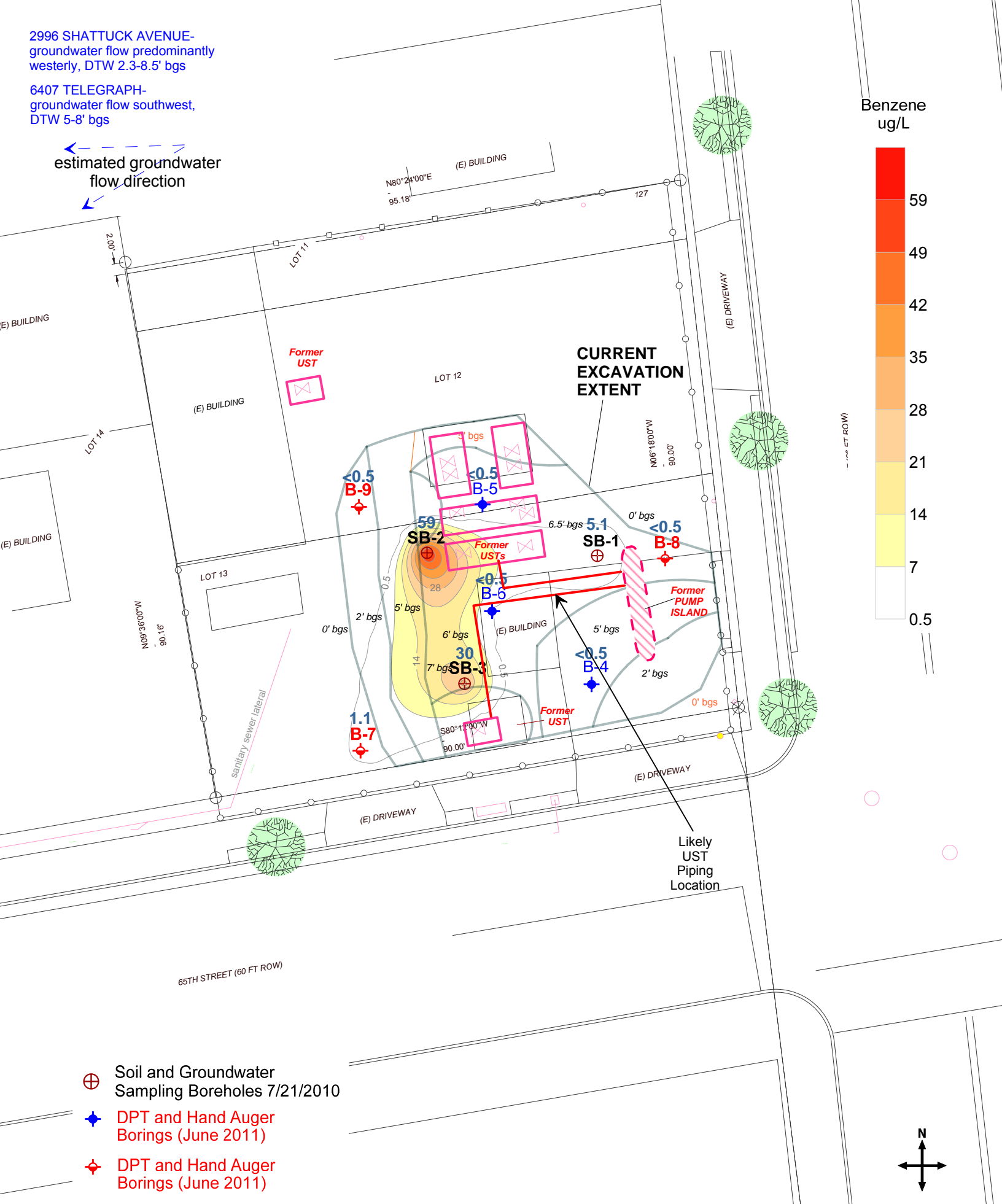
Figure 4: Contour map showing TPH-d concentrations in groundwater



2996 SHATTUCK AVENUE-
groundwater flow predominantly
westerly, DTW 2.3-8.5' bgs

6407 TELEGRAPH-
groundwater flow southwest,
DTW 5-8' bgs

← estimated groundwater
flow direction



- ⊕ Soil and Groundwater Sampling Boreholes 7/21/2010
- ◆ DPT and Hand Auger Borings (June 2011)
- ◆ DPT and Hand Auger Borings (June 2011)

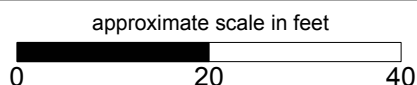
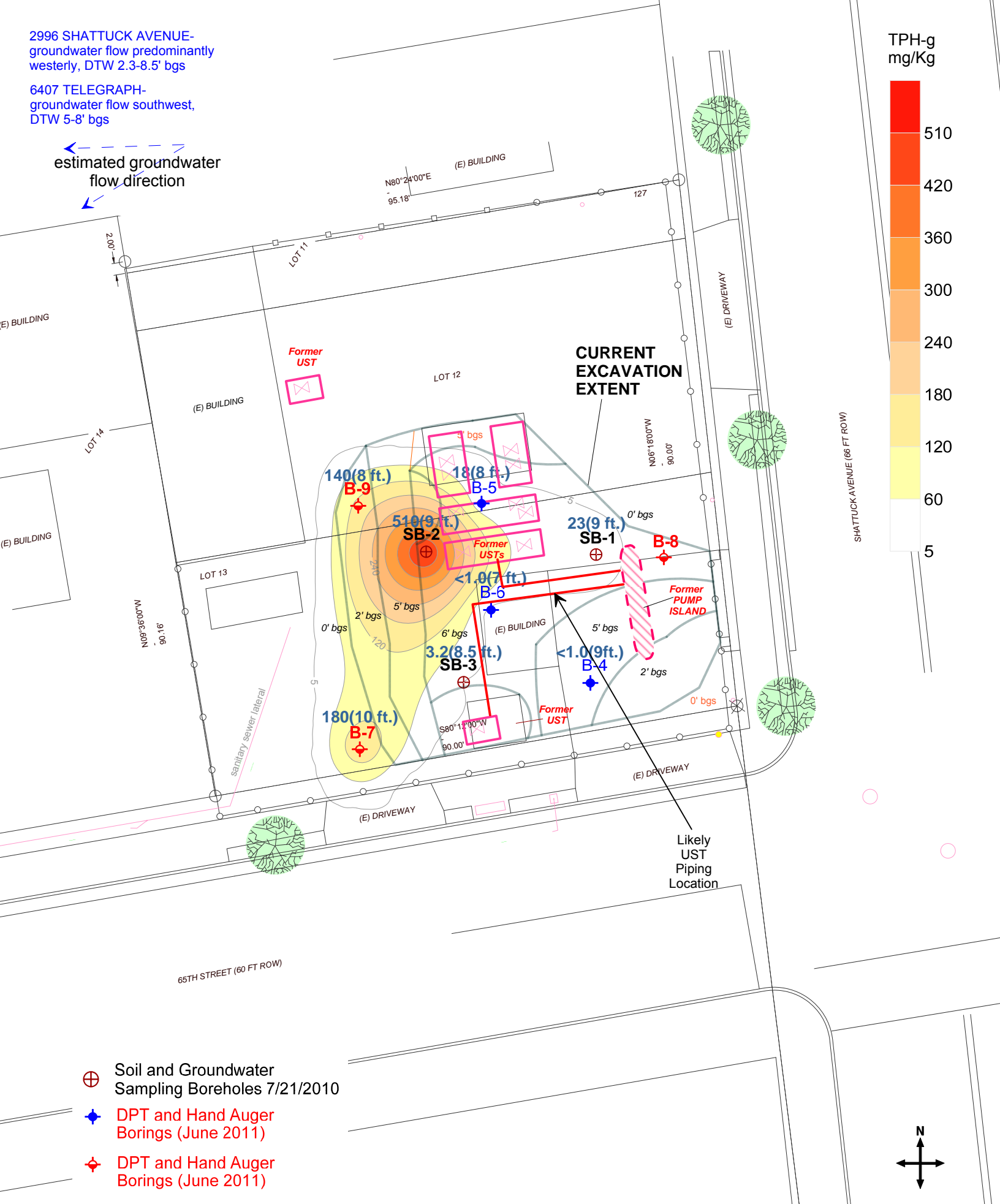


Figure 5: Contour map showing Benzene concentrations in groundwater

2996 SHATTUCK AVENUE-
groundwater flow predominantly
westerly, DTW 2.3-8.5' bgs

6407 TELEGRAPH-
groundwater flow southwest,
DTW 5-8' bgs

← estimated groundwater
flow direction



approximate scale in feet

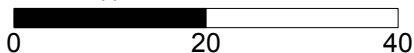
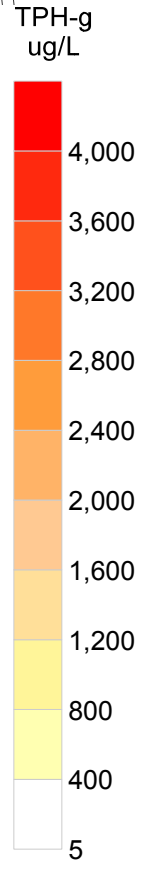
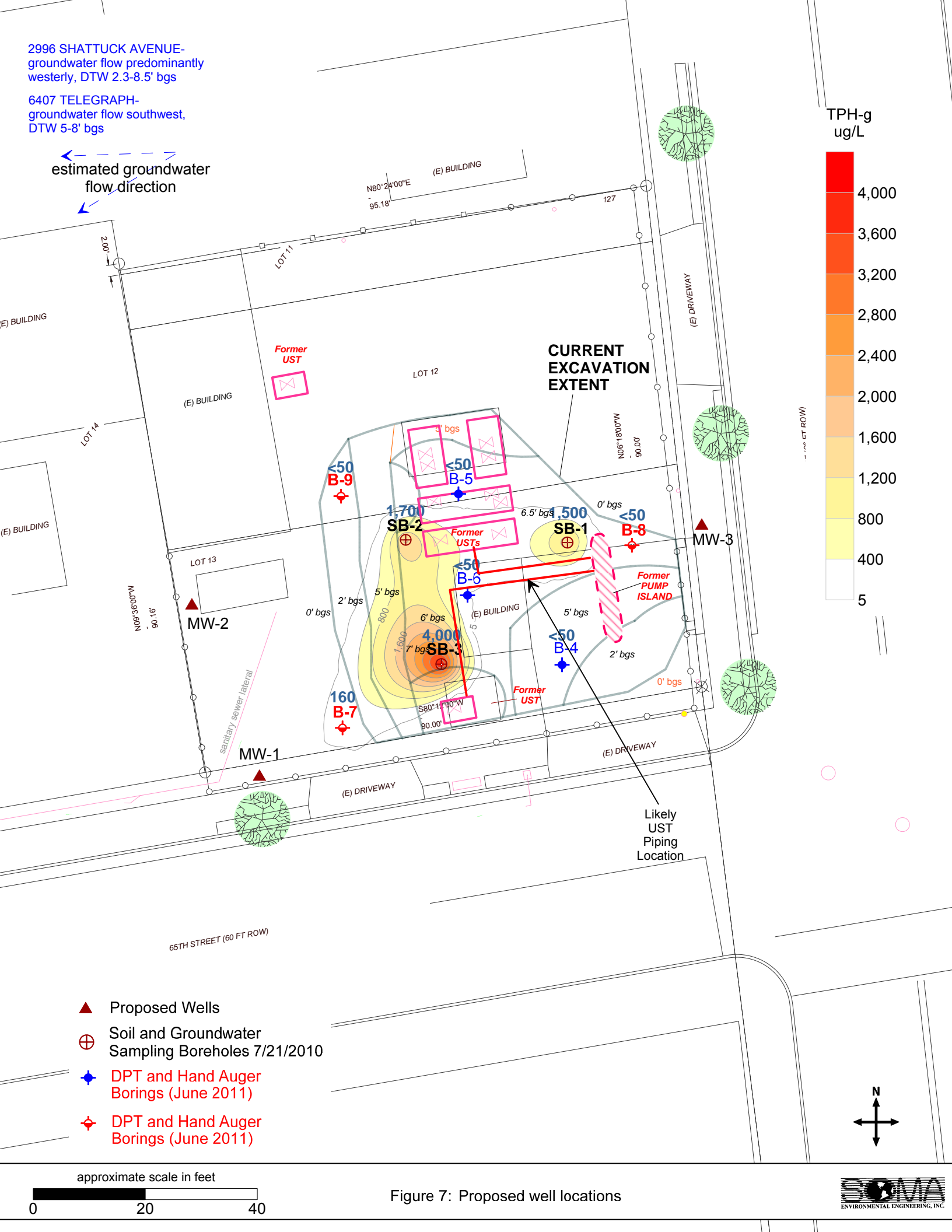


Figure 6: Contour map showing TPH-g concentrations in soil (7-10 feet bgs)

2996 SHATTUCK AVENUE-
groundwater flow predominantly
westerly, DTW 2.3-8.5' bgs

6407 TELEGRAPH-
groundwater flow southwest,
DTW 5-8' bgs

← estimated groundwater
flow direction



- ▲ Proposed Wells
- ⊕ Soil and Groundwater Sampling Boreholes 7/21/2010
- ◆ DPT and Hand Auger Borings (June 2011)
- ◆ DPT and Hand Auger Borings (June 2011)

approximate scale in feet

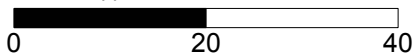


Figure 7: Proposed well locations

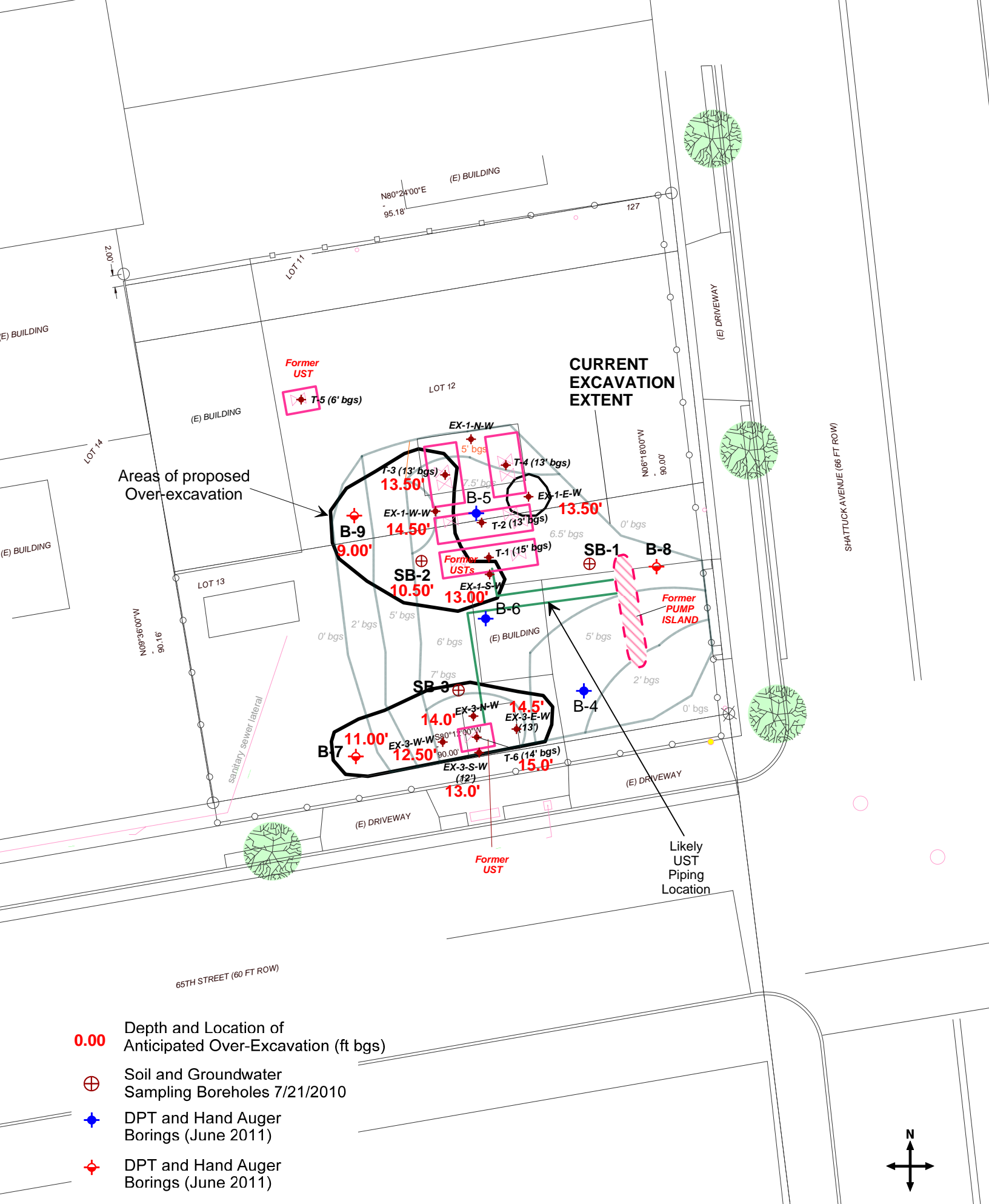


Figure 8: Proposed areas and depths of over-excavation

TABLES

Table 1
UST Confirmation Soil Sampling Approach
6501 Shattuck Ave, Oakland, CA

Sample ID	Tank ID	Date	Sample Location	Sample Depth	Sample Direction	Sampling Method
T-1	Tank #1	10/1/2009	Beneath Tank #1	15 feet bgs	Vertical	backhoe bucket
T-2	Tank #2	10/1/2009	Beneath Tank #2	13 feet bgs	Vertical	backhoe bucket
T-3	Tank #3	10/1/2009	Beneath Tank #3	13 feet bgs	Vertical	backhoe bucket
T-4	Tank #4	10/1/2009	Beneath Tank #4	13 feet bgs	Vertical	backhoe bucket
T-5	Tank #5	10/1/2009	Beneath Tank #5	6 feet bgs	Vertical	backhoe bucket
T-6	Tank #6	10/1/2009	Beneath Tank #6	14 feet bgs	Vertical	backhoe bucket
EX-1-E-W	Tank #2	10/1/2009	East sidewall	13 feet bgs	Horizontal	NA
EX-1-N-W	Tank #4	10/1/2009	West sidewall	10 feet bgs	Horizontal	NA
EX-1-S-W	Tank #1	10/1/2009	South sidewall	12 feet bgs	Horizontal	NA
EX-1-W-W	Tank #2	10/1/2009	West sidewall	13 feet bgs	Horizontal	NA
EX-3-E-W	Tank #6	10/1/2009	East sidewall	13 feet bgs	Horizontal	NA
EX-3-N-W	Tank #6	10/1/2009	North sidewall	13 feet bgs	Horizontal	NA
EX-3-S-W	Tank #6	10/1/2009	South sidewall	12 feet bgs	Horizontal	NA
EX-3-W-W	Tank #6	10/1/2009	West sidewall	12 feet bgs	Horizontal	NA

Table 2
UST Confirmation Soil Analytical Data (10/1/2009)
6501 Shattuck Ave, Oakland, CA

Sample ID	Soil Sample Depth (feet bgs)	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE 8260B (mg/kg)	Lead 6010 (mg/kg)	Zinc 6010 (mg/kg)	Minimum anticipated over-excavation depth (ft bgs)
T-1	15	8.2	2.6	NA	<0.5	<0.5	<0.5	0.013	<5	6.5	66	-
T-2	13	420	270	NA	0.16	<0.1	<0.1	0.72	<1	14	220	- per conf B-5 results
T-3	13	100	58	NA	<0.1	<0.1	0.24	1.4	<1	14	99	13.5
T-4	13	1.8	2.5	NA	<0.5	<0.5	0.02	0.09	<5	7	63	-
T-5	6	8	11	44	<0.5	<0.5	<0.5	0.02	<5	12	45	-
T-6	14	280	230	NA	0.45	1.9	2.7	15	<2.5	95	290	15
EX-1-E-W	13	93	76	NA	<0.1	0.18	<0.1	0.15	<1	8.7	21	13.5
EX-1-N-W	10	8.2	3.5	NA	<0.5	0.0099	<0.5	0.035	<5	9.9	31	-
EX-1-S-W	12	490	170	NA	0.54	0.12	3.6	1.6	<1	8.9	58	13
EX-1-W-W	13	1700	1800	NA	<0.25	<0.25	1.9	5.9	<2.5	92	580	14.5
EX-3-E-W	13	2100	680	NA	2.7	3	15	60	<5	4200	3900	14.5
EX-3-N-W	13	180	48	NA	0.71	5.9	2.7	17	<1	320	480	14
EX-3-S-W	12	2900	780	NA	5	27	36	200	<5	240	560	13
EX-3-W-W	12	95	41	NA	0.42	<0.1	0.11	0.28	<1	10	25	12.5
ESL Drinking Water		83	83	370	0.044	2.9	2.3	2.3	0.023	200	600	NA
ESL Non-Drinking Water		180	180	2500	0.27	9.3	4.7	11	8.4	750	600	NA

Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final November 2007, Revised May 2008

< : below Laboratory Detection Limits

Y: Sample exhibits chromatographic pattern which does not resemble standard

NA: Not Analyzed

Table 3
Grab Groundwater Analytical Results
6501 Shattuck Ave, Oakland, CA

Sample ID	Date	TPH-g (µg/L)	TPH-d (µg/L)	TPH-mo (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl-Benzene (µg/L)	Total Xylenes (µg/L)	MtBE 8260B (µg/L)
SB-1	7/21/2010	1,500	930	<300	5.1	1.8	32	25	1.9
SB-2	7/21/2010	1,700	5,300	1,400	59	4.8	18	13.7	0.66
SB-3	7/21/2010	4,000	11,000	800	30	4.1	15	10.9	<0.5
B-4	6/10/2011	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
B-5	6/10/2011	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
B-6	6/16/2011	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
B-7	6/10/2011	160 Y	61 Y	<300	1.1	0.9	1.2	0.9	<0.5
B-8	6/10/2011	<50	<63	<380	<0.5	<0.5	<0.5	<0.5	<0.5
B-9	6/10/2011	<50	<50	<300	<0.5	<0.5	<0.5	<0.5	<0.5
ESL Drinking Water (Residential)		100	100	100	1	40	30	20	5
ESL Non-Drinking Water (Commercial)		210	210	210	46	130	43	100	1800

Sample ID	Date	Cadmium (µg/L)	Chromium (µg/L)	Lead (µg/L)	Nickel (µg/L)	Zinc (µg/L)
SB-1	7/21/2010	<5.0	<5.0	<5.0	<5.0	<20
SB-2	7/21/2010	<5.0	<5.0	<5.0	12	41
SB-3	7/21/2010	<5.0	<5.0	<5.0	19	350
ESL Drinking Water (Residential)		0.25	50	2.5	8.2	81
ESL Non-Drinking Water (Commercial)		0.25	180	2.5	8.2	81

Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final November 2007, Revised May 2008

< : below Laboratory Detection Limits

Y: Sample exhibits chromatographic pattern which does not resemble standard

Table 4
Soil Analytical Results
6501 Shattuck Ave, Oakland, CA

Sample ID	Soil Sample Depth (feet bgs)	Depth to Water (feet bgs)	Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE 8260B (mg/kg)	Lead 6010 (mg/kg)	Minimum anticipated over-excavation depth (ft bgs)
SB-1@2.5ft	9	10	7/21/2010	23Y	20	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	7.9	-
SB-2@3ft	9	10	7/21/2010	510Y	50	<5.0	<0.5	<0.5	0.65	<0.5	<0.5	5.7	10.5
SB-3@1.5ft	8.5	8.5	7/21/2010	3.2Y	24	48	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	58	-
B-4	9	13.22	6/10/2011	<1.0	<1.0	<5.0	<0.005	<0.005	<0.005	<0.005	<0.005	NA	-
B-5	8	NA	6/10/2011	18 Y	59 Y	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	-
B-6	7	NA	6/10/2011	<1.0	<1.0	<5.0	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	-
B-7	10	12.45	6/10/2011	180	35 Y	<5.0	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	11
B-7	12	12.45	6/10/2011	<0.98	NA	NA	NA	NA	NA	NA	NA	NA	-
B-8	4.5	NA	6/10/2011	<1.1	3.2 Y	23	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	-
B-9	8	11.5	6/10/2011	140	58 Y	6.1	<0.25	<0.25	<0.25	<0.25	<0.25	<0.25	9
B-9	10	11.5	6/10/2011	<1.0	NA	NA	NA	NA	NA	NA	NA	NA	-
ESL Drinking Water (Residential)				83	83	370	0.044	2.9	2.3	2.3	0.023	200	NA
ESL Non-Drinking Water (Commercial)				180	180	2500	0.27	9.3	4.7	11	8.4	750	NA

Notes:

ESL: California Regional Water Quality Control Board, Environmental Screening Levels, Interim Final November 2007, Revised May 2008

< : below Laboratory Detection Limits

Y: Sample exhibits chromatographic pattern which does not resemble standard

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

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: 06/07/2011 By jamesy

Permit Numbers: W2011-0381
Permits Valid from 06/10/2011 to 06/10/2011

Application Id: 1307465372569
Site Location: 6501 Shattuck Ave, Oakland, CA
Project Start Date: 06/10/2011
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

City of Project Site:Oakland

Completion Date:06/10/2011

Applicant: SOMA Environmental Engineering - Elena Manzo
6620 Owens Drive, Suite A, Pleasanton, CA 94588
Property Owner: Athan Magganas
2550 Appian Way, Suite 201, Pinole, CA 94564
Client: ** same as Property Owner **

Phone: 925-734-6400

Phone: --

Receipt Number: WR2011-0166 Total Due: \$265.00
Total Amount Paid: \$265.00
Payer Name : SOMA Environmental Engineering, Inc Paid By: VISA PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Environmental/Monitoring Study - 6 Boreholes
Driller: RSI Drilling - Lic #: 802334 - Method: other

Work Total: \$265.00

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2011-0381	06/07/2011	09/08/2011	6	2.00 in.	22.00 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. 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.
5. 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.

Alameda County Public Works Agency - Water Resources Well Permit

6. Prior to any drilling activities onto any public right-of-ways, it shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that City or to the County and follow all City or County Ordinances. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County a 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.

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.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:

399 Elmhurst Street

Hayward, CA 94544

For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org

For Drilling Permit information and process contact James Yoo at

Phone: 510-670-6633

FAX: 510-782-1939

Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of General Ordinance Code, Chapter 6.88 . The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by California Water Code. The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460

Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460

Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000

Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of **Oakland, Alameda, Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley, and Hayward** . The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed permit application (30 Kb)* , along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees

Beginning April 11, 2005 , the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost \$300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost \$200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects

Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when Inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm., Monday to Friday, excluding holidays.

Request for Permit Extension:

Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:

Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:

A service charge of \$25.00 dollars for the first check returned and \$35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of \$50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed \$500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is \$1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under \$500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement

Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars (\$500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis

Drilling without a permit shall be the cost of the permit(s) and a fine of \$500.00 (Five Hundred Dollars).

Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies.

See our website (www.acqgov.org/pwa/wells/index.shtml) for links to additional forms.

APPENDIX B

BORING LOGS

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: 11.5 ft.
Stablized GW: 13.22 ft.

DRILLING METHOD: Hand Auger

T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
									NA
				Bottom of Excavation (Excavation depth)					
			ML	SANDY SILT: dark brown, moist, soft, fine-grained sand, some medium to coarse grained sand, low dry strength, low toughness, slow dilancy. No PHC odor.					
	5		CL	LEAN CLAY with sand: Black, soft, moist, medium tough, high plastic, high plasticity, rapid dilatancy, medium dry strength, no PHC odor. Organic odor starts @6.5 ft becomes gray @ 7.5-8 ft. No PHC odor. 5-10% fine- to medium-grained sand. Wet at 7.5 ft Some rust mottling, PHC staining, fine gravel <5% at 9.5 ft			X		
	10		CL	SANDY LEAN CLAY: Reddish-brown w/ gray mottling at 10 to 10.3 ft, 2" sand stringer at 10.3 ft, CaCO3 nodules, high plasticity, saturated, fine- to coarse-grained sand (40%), rapid dilatancy, medium toughness, medium dry strength, dries out to moist at 11.5 ft. Some brick fragments at 11 ft.			▼		
			CL	SANDY LEAN CLAY: Light gray with rust mottling, soft, moist, black nodules, fine- to medium-grained sand, high plasticity, medium toughness, medium dry strength, rapid dilatancy, increase in sand content at 13 ft. No PHC odor.			▼		
	15		SC	CLAYEY SAND: Reddish-brown w/ black nodules, fine- to medium-grained sand (60%), rapid dilatancy, medium dry strength, medium toughness, moist, some coars sand, firm (70% sand). Gray clay mottling at 16 ft. Sand decrease to 50% at 17.5 ft, gray mottling, soft, highly plastic. Reddish-brown fine to very fine sand (70%) at 19 ft					
	20								
	25								

COMMENTS: Total depth 20 ft bgs. GW stabilized at 13.22 ft bgs.

X Analyzed soil sample

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: NA

Stablized GW: NA

DRILLING METHOD: Direct Push

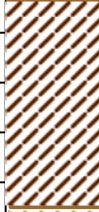



T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
									NA
	5			Bottom of Excavation (Excavation depth)					
	7.5		CL	LEAN CLAY w/sand: Tan with green staining, becomes green with PHC odor at 7 feet, moist, firm, high plastic, medium toughness, medium dry strength, rapid dilatancy, fine- to very coarse-grained sand (~15%)		X			
	10			As Above: ~20% fine sand					
	11.5		SC	CLAYEY SAND: Green with brown mottling, , fine to medium grained sand, moist, firm, becomes reddish-brown with grey mottling and black nodules at 12.5 feet, high plastic, medium toughness, medium dry strength, slow dilatancy, no PHC odor					
	15			As Above: Tan with fine- to medium grained sand (70%)					
	18		CL	LEAN CLAY: Reddish-brown w/tan mottling and black nodules, as above moist to very moist					
	20		CL	SANDY LEAN CLAY: Reddish-brown, soft, very fine sand (~20 %), high plastic, rapid dilatancy, medium toughness, medium dry strength, moist, no PHC odor					
	21			As Above: black staining, slight PHC odor					
	24			As Above: very moist w/wet nodules and no PHC odor					

COMMENTS: Total depth 24 ft bgs. Stabilized GW not encountered, GW sample collected as soon as water in casing.

X Analyzed soil sample

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: 22 ft.
Stablized GW:

DRILLING METHOD: Direct Push

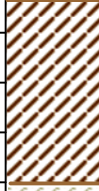



T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
									NA
	5			Bottom of Excavation (Excavation depth)					
	8.5		CL	LEAN CLAY: Dark brown to tan with rust mottling at 8.5 ft., some PHC staining at 8.5 ft, moist, soft to firm, high plastic, medium toughness, medium dry strength, slow dilatancy, no PHC odor			X		
	10		SC/CL	CLAYEY SAND to SANDY CLAY: Reddish-brown and tan, fine to medium grained sand, moist to damp, firm, becomes reddish-brown with grey mottling and black nodules at 11 ft., high plastic, medium toughness, medium dry strength, slow dilatancy, no PHC odor					
	15			As Above: fine- to medium grained sand, no mottling					
	18		CL	LEAN CLAY: Reddish-brown, as above, moist to very moist, no PHC odor					
	20		CL	SANDY LEAN CLAY: Reddish-brown with tan mottling, soft, fine sand (~20 %), high plastic, rapid dilatancy, medium toughness, medium dry strength, moist, no PHC odor					
	21			As Above: grey/black staining, no PHC odor					
	22			As Above: ~10 coarse grained sand, very moist to wet			▽		
	23			As Above: wet nodules					
	25								

COMMENTS: Total depth 24 ft bgs. Stabilized GW not encountered, GW sample collected as soon as water in casing.

X Analyzed soil sample

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: 21 ft.
Stablized GW: 12.45 ft

DRILLING METHOD: Direct Push

T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
									NA
			CL-ML	Hand Auger top 5 feet, 2 inches asphalt SILTY CLAY: Black, moist to very moist, soft, medium plastic, medium toughness, medium dry strength, rapid dilatancy, no PHC odor					
	5		CL	SANDY LEAN CLAY: Black, moist, firm, fine- to medium-grained sand, high plastic, rapid dilatancy, medium toughness, medium dry strength, PHC odor at 4.5 feet, green staining at 6 feet					
	10		SC	CLAYEY SAND w/gravel: Green, firm, damp, gravel up to 1" at 9.5 feet, 65% fine- to coarse-grained sand, ~30 %clay: high plastic, medium toughness, medium dry strength, slow dilatancy, PHC odor As Above: Rust mottling at 11 feet, decrease coarse sand and decreased PHC odor		X			
	15		CL	LEAN CLAY: Grey, soft, moist, ~15% fine- to coarse g rained sand (subrounded to angular), 85% clay: high plastic, medium toughness, medium dry strength, rapid dilatancy, no PHC odor As Above: very soft, very moist		X	▼		
	20		CL	SANDY LEAN CLAY: Reddish-brown with grey mottling, soft, v. fine sand (~20 %), high plastic, rapid dilatancy, medium toughness, medium dry strength, moist, no PHC odor As Above: fine- to medium-grained sand (angular)					
	25		SC	CLAYEY SAND: Reddish-brown, very soft, moist to very moist, 5% coarse-grained sand, ~50% fine to very fine sand, clay: high plastic, medium toughness, medium dry strength, rapid dilatancy, no PHC odor Wet stringers			▼		

COMMENTS: Total depth 24 ft bgs. Stabilized GW at 12.45 feet bgs

X Analyzed soil sample

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: Not encountered
Stablized GW: Not encountered

DRILLING METHOD: Direct Push

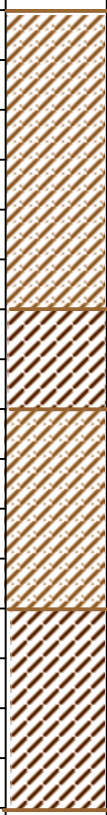
T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	SAMPLED	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM NA
				Bottom of Excavation (Excavation depth)					
	6.6		CL	SANDY LEAN CLAY: Dark brown, firm, moist, becomes tan at 6 ft., ~40% coarse sand, high plastic, slow dilatancy, medium toughness, medium dry strength, no PHC odor		X			
	0.0			As Above: gravel and sand lenses (~1" thick)					
	10.0		CL	LEAN CLAY: Reddish-brown w/ tan mottling, moist, soft to firm, high plastic, medium toughness, medium dry strength, slow dilatancy, no PHC odor					
	0.0		CL	SANDY LEAN CLAY: Tan, firm, damp, ~40% fine- to coarse-grained sand high plastic, slow dilatancy, medium toughness, medium dry strength, no PHC odor					
	15.0		CL	LEAN CLAY: Reddish-brown with tan mottling, ~15% fine to very fine sand, becomes soft at 19 ft., high plastic, medium toughness, medium dry strength, slow dilatancy					
	0.0								
	20.0								
	0.0								
	25.0								

COMMENTS: Total depth 20 ft bgs. Stabilized GW not encountered, GW sample collected as soon as water in casing.

X Analyzed soil sample

PROJECT: 5032

DATE DRILLED: 6/10/2011

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: RSI Drilling

First Encountered GW: 22.5 ft.
Stablized GW: 15.5

DRILLING METHOD: Direct Push


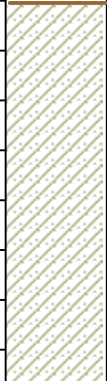

T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SPLIT SPOON CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM NA
				Bottom of Excavation (Excavation depth)				
	0.0		CL	SANDY LEAN CLAY: Dark brown, soft, fine sand (~25 %), high plastic, rapid dilatancy, medium toughness, medium dry strength, dry to moist, no PHC odor As Above: becomes green with strong PHC odor, fine- to coarse-grained sand				
5			SC	CLAYEY SAND: Brown with green mottling, fine- to coarse-grained sand (70%), dry, firm, high plastic, medium toughness, low dry strength, no dilatancy, strong PHC odor As Above: Grey with PHC staining, strong PHC odor, becomes soft with rapid dilatancy As Above: very coarse-grained sand at 10 ft., no PHC odor, dry As Above: Tan, moist, CaCO3 nodules (strong HCl reaction), no PHC odor	X			
10			CL	SANDY CLAY: Tan, firm, moist, fine- to medium-grained sand (20%), high plastic, medium toughness, medium dry strength, rapid dilatancy, no PHC odor, swelling clay As above: tan w/rust mottling	X	▼		
15			CL	LEAN CLAY: Grey, soft, moist, slow dilatancy, high plastic, medium toughness, medium dry strength, moist, no PHC odor As Above: w/rust mottling and black nodules, moist to very moist				
20			SP	POORLY GRADED SAND w/clay: Reddish-brown, wet, fine- to coarse-grained sand, no PHC odor, ~5% clay: highly plastic, medium toughness, low dry strength, rapid dilatancy		▼		
25								

COMMENTS: Total depth 24 ft bgs. Stabilized GW at 15.5 feet bgs.

X Analyzed soil sample



PROJECT: 5032

DATE DRILLED: 7/21/2010

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: SOMA Environmental

First Encountered GW: N/A
Stablized GW: 3.5 ft.

DRILLING METHOD: Hand Auger

T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

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
	5			Bottom of Excavation (Ground Surface)					
1333	817.5		CL	LEAN CLAY with sand: Grayish-brown; moist; fine- to coarse-grained sand; Petroleum Hydrocarbon (PHC) odor and greenish-brown color begin at 1 ft. below ground surface; greenish-brown color continues to 2.5 ft. below ground surface.					
	10								
	15								
	20								
	25								

COMMENTS:

PROJECT: 5032

DATE DRILLED: 7/21/2010

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: SOMA Environmental

First Encountered GW: N/A

Stablized GW: 4 ft. bgs

DRILLING METHOD: Hand Auger



T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

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
161.3 307.8	5			Bottom of Excavation (Ground Surface)					
			ML	SANDY SILT with gravel: Dark brown, moist; ~ 40% fine- to coarse-grained sand; gravel up to 1/2-inch; green staining and odor begin at 1.5 ft.					
	10		ML/CL	CLAYEY SILT: Dark brown with some greenish staining; moist; PHC odor and staining ends at 3 ft.					
	15								
	20								
	25								

COMMENTS:

PROJECT: 5032

DATE DRILLED: 7/21/2010

SITE LOCATION: 6501 Shattuck Ave., Oakland, CA

CASING ELEVATION: N/A

DRILLER: SOMA Environmental

First Encountered GW: 2 ft.
Stablized GW: 1.5 ft.

DRILLING METHOD: Hand Auger



T.O.C. TO SCREEN: N/A

BORING DIAMETER: 3-inch

SCREEN LENGTH: N/A

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
1363 +15,000	5								
	10		ML	Bottom of Excavation (Ground Surface) SANDY SILT: Dark brown; moist to very moist; fine- to medium-grained sand; Petroleum Hydrocarbon (PHC) odor starts at 1 ft. bgs; saturated and greenish staining at 2 ft. bgs and can see sheen on soil/water.					
	15								
	20								
	25								

COMMENTS:

6501 Shattuck Ave
Oakland, CA

B-4

Ft.	Depth (ft)	PID (ppm)
	4	0
	5	2.3
	6	0
	7	0
	8	0
	9	0
	10	0
	11	0
	12	0
	13	0
	14	0
	15	0
	16	0
	17	0
	18	0
	19	0
	20	0

B-5

Depth (ft)	PID (ppm)
6.5	0
7	47.4
8	371
9	27
10	2.5
11	1.7
12	0.0
13	0.0
14	0.0
15	0
17	0
19	0
21	19.7
24	0.0

B-6

Depth (ft)	PID (ppm)
7	1.2
8	0
9	0
10	0
11	0
12	0
13	0
14	0
15	0
16	0
17	0
18	0
19	0
20	0
21	0
23	0

B-7

Depth (ft)	PID (ppm)
3	24.9
4	12.1
5	65.6
6	17.8
7	52.8
8	45.9
9	138.9
10	304
11	463
12	8.9
13	0
14	0
15	0
17	12.6
19	4.9
21	0
23	0

∇ - GW Encountered

▣ - GW Stabilized

⊠ - sampled and analyzed

6501 Shattuck Ave
Oakland, CA

B-8

Depth ft	PID (ppm)
1	6.6
2	0
3	0 X
4	0 X
5	0 X
6	0 X
7	0 X
8	0 X
9	0 X
10	0 X
11	0 X
12	0 X
13	0 X
14	0 X
15	0 X
16	0 X
17	0 X
18	0 X
19	0 X
20	0 X
21	0 X
22	0 X
23	0 X
24	0 X
25	0 X
26	0 X
27	0 X
28	0 X
29	0 X
30	0 X

B-9

Depth ft	PID (ppm)
3	0
4	0 X
5	3.2
6	11.6 X
7	52.2 X
8	100.7 X
10	1.7 X
12	0 X
14	0 X
16	0 X
18	0 X
20	0 X
22	0 X
23	0 X
24	0 X
25	0 X
26	0 X
27	0 X
28	0 X
29	0 X
30	0 X

Depth	PID

Depth	PID

- ▭ - GW Encountered
- ▩ - GW Stabilized
- ☒ - sampled and analyzed

APPENDIX C

LABORATORY REPORT AND CHAIN OF CUSTODY FORM



Laboratory Job Number 228688
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. Project : 5032
6620 Owens Dr. Location : 6501 Shattuck Ave., Oakland
Pleasanton, CA 94588 Level : II

Table with 4 columns: Sample ID, Lab ID, Sample ID, Lab ID. Lists various sample and lab identifiers such as B-4 @ 8FT, B-5 @ 10, B-7 @ 6, 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 NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

Signature: [Handwritten Signature]
Project Manager

Date: 06/21/2011

CASE NARRATIVE

Laboratory number: 228688
Client: SOMA Environmental Engineering Inc.
Project: 5032
Location: 6501 Shattuck Ave., Oakland
Request Date: 06/13/11
Samples Received: 06/13/11

This data package contains sample and QC results for six soil samples and five water samples, requested for the above referenced project on 06/13/11. The samples were received cold and intact.

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

No analytical problems were encountered.

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

High surrogate recovery was observed for bromofluorobenzene (FID) in B-5 @ 8 (lab # 228688-006). 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:

High surrogate recovery was observed for o-terphenyl in B-4 @ 9 FT (lab # 228688-003); no target analytes were detected in the sample. No other analytical problems were encountered.

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

B-7 (lab # 228688-023) had multiple vials combined due to sediment. No other analytical problems were encountered.

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

No analytical problems were encountered.

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

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

C&T LOGIN # 228688

Sampler: Erica Fisker

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company: SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	
1	B-4	6-10-11 10:50	X	X		6 Vials 8 oz for 2.500 mL	X			*	
2	B-4 @ 8 ft	9:25	X			8oz jar					
3	B-4 @ 9 ft	9:29	X								
4	B-4 @ 12.5 ft	9:59	X								
5	B-5	18:00	X			6 Vials 2.500 mL	X				
6	B-5 @ 8	11:58	X			6 Vials 8oz 500					
7	B-5 @ 10	12:00									
8	B-5 @ 12	12:10									
9	B-5 @ 14	12:12									
10	B-5 @ 16	12:40									

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260																		
*	*																		
X	X	Hold																	
X	X																		
X	X	Hold																	
		Hold																	
		Hold																	
		Hold																	
		Hold																	

Notes: **EDF OUTPUT REQUIRED**
 Silica-gel clean-up required (TPH-d, TPH-mo)

RELINQUISHED BY:

Erica Fisker 6-10-11 20:01 DATE/TIME

JFB 6-13-11 11:30 DATE/TIME

DATE/TIME

RECEIVED BY:

[Signature] 6-10-11 20:01 DATE/TIME

[Signature] 6-13-11 11:30 DATE/TIME

DATE/TIME

Special pricing per Tracy

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

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

C&T LOGIN # 228688

Sampler: Erica Fisker

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company: SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
11	B-5 @ 18	6-10-11 12:38	X			6-oz jar Sieve				
12	B-5 @ 20	12:35	X							
13	B-5 @ 21	16:38	X							
14	B-6 @ 7	11:29	X							
15	B-6 @ 8.5	11:28	X							
16	B-6 @ 10	11:32	X							
17	B-6 @ 12	11:37	X							
18	B-6 @ 14	11:35	X							
19	B-6 @ 16	11:45	X							
20	B-6 @ 18	11:50	X							

TPH-g, TPH-d, TPH-mo 8015 VOCs (Full List) 8260																				
	hold																			
	hold																			
	hold																			
	XX																			
	hold																			
	hold																			
	hold																			
	hold																			
	hold																			

Notes: EDF OUTPUT REQUIRED
 Silica-gel clean-up required TPH-d, MC

RELINQUISHED BY:

RECEIVED BY:

[Signature] 6-10-11 2:00 DATE/TIME
[Signature] 6-13-11 11:30 DATE/TIME
 DATE/TIME

[Signature] 6-10-11 2:00 DATE/TIME
[Signature] 6-13-11 1:30 DATE/TIME
 DATE/TIME

Special pricing per Tracy

CHAIN OF CUSTODY

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

C&T LOGIN # 228688

Project No: 5032

Sampler: Erica Fisker

Project Name: 6501 Shattuck Ave., Oakland

Report To: Joyce Bobek

Turnaround Time: Standard

Company: SOMA Environmental

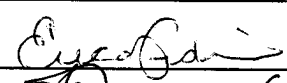

Telephone: 925-734-6400

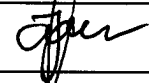
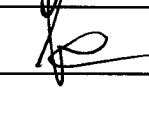
Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
21	B-6 @ 20	6-10-11 11:53	*			6 1/2 jar 5 SUBM				*
22	B-6 @ 21	16:59	X			1				X
23	B-7 @ 21	17:45		X		6 UCAS 2 SUBM	X			X
24	B-7 @ 2	15:17	X			6-17 Sieve				X
25	B-7 @ 4	15:20								
26	B-7 @ 6	15:23								
27	B-7 @ 8	15:34								
28	B-7 @ 10	15:38								
29	B-7 @ 12	15:42								
30	B-7 @ 14	15:50								

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260																										

Notes: **EDF OUTPUT REQUIRED**
 Silica-gel clean-up required TPH-d, mo

RELINQUISHED BY:
 6/10/11 20:09 DATE/TIME
 6/13/11 11:30 DATE/TIME
 DATE/TIME

RECEIVED BY:
 6-10-11 20:09 DATE/TIME
 6/13/11 11:30 DATE/TIME
 DATE/TIME

Special Pricing for Train

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

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

C&T LOGIN # 228688

Sampler: Erica Fisker

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company: SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative				
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE	
31	B-7@ 16	6-10-11 16:02	*			6-11 8-oz jar				*	
32	B-7@ 18	6-10-11 16:03	X			↓				X	
33	B-8@	17:00		X		6-11 AS Amber	X			X	
34	B-8@ 4.5	13:00	X			6-11 steel				X	
35	B-8@ 6	13:10									
36	B-8@ 8	13:12									
37	B-8@ 10	13:14									
38	B-8@ 12	13:18									
39	B-8@ 14	13:20									
40	B-8@ 16	13:35									

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260																	
*	*	hold																
X	X	hold																
X	X																	
		hold																
		hold																
		hold																
		hold																
		hold																
		hold																

Notes: **EDF OUTPUT REQUIRED**
 Silica-gel clean-up required TPH-d/mo

RELINQUISHED BY:
 Erica Fisker 6-10-11 20:01 DATE/TIME
 [Signature] 8/13/11 11:30 DATE/TIME
 DATE/TIME

RECEIVED BY:
 [Signature] 6-10-11 20:01 DATE/TIME
 [Signature] 8/13/11 11:50 DATE/TIME
 DATE/TIME

Special Pricing per tray

CHAIN OF CUSTODY

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

C&T LOGIN # 228688

Sampler: Erica Fisker

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
41	B-8 @ 18	6-10-11 13:40	*			6-10 8-oz jar Silica				*
42	B-9	6-10-11 17:30		X		6-10 1 Amber	X			X
43	B-9 @ 3	14:25	X			6-10 Silica				
44	B-9 @ 4	14:30								
45	B-9 @ 6	14:34								
46	B-9 @ 8	14:40								
47	B-9 @ 10	14:48								
48	B-9 @ 12	14:55								
49	B-9 @ 14	14:57								
	B-9 @ 16									

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260																	
*	*	hold																
X	V																	
		hold																
		hold																
		hold																
X	X																	
		hold																
		hold																
		hold																

Notes: EDF OUTPUT REQUIRED
 Silica-gel clean-up required ~~TPH-d, mo~~

RELINQUISHED BY:

Erica Fisker 6-10-11 20:01
 DATE/TIME
JR 6/13/11 11:30
 DATE/TIME
 DATE/TIME

RECEIVED BY:

JR 6/10/11 20:01
 DATE/TIME
JR 6/13/11 11:30
 DATE/TIME
 DATE/TIME

Special Pricing per Tracy

COOLER RECEIPT CHECKLIST



Login # 228683 Date Received 6/13/11 Number of coolers 1
Client SOMA Project 6561 Shattuck Ave, Oakland

Date Opened 6/13/11 By (print) Vidya Qarshi (sign) [Signature]
Date Logged in 6/14/11 By (print) R. PAMS (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
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 samples in the appropriate containers for indicated tests? YES NO

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

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

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

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

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

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

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

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

19. Was the client contacted concerning this sample delivery? YES NO
If YES, Who was called? Tracy Date: 6/14/11

COMMENTS
Sediment found at bottom of containers.

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596408	Batch#:	175876
Matrix:	Water	Analyzed:	06/15/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	945.4	95	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	78-123

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175876
MSS Lab ID:	228698-012	Sampled:	06/14/11
Matrix:	Water	Received:	06/14/11
Units:	ug/L	Analyzed:	06/15/11
Diln Fac:	1.000		

Type: MS Lab ID: QC596412

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	17.14	2,000	2,007	100	66-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	111	78-123

Type: MSD Lab ID: QC596413

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	2,023	100	66-120	1	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-123

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175876
MSS Lab ID:	228724-001	Sampled:	06/14/11
Matrix:	Water	Received:	06/15/11
Units:	ug/L	Analyzed:	06/16/11
Diln Fac:	1.000		

Type: MS Lab ID: QC596414

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	28.20	2,000	1,800	89	66-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	78-123

Type: MSD Lab ID: QC596415

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,900	94	66-120	5	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-123

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175876
MSS Lab ID:	228700-002	Sampled:	06/13/11
Matrix:	Water	Received:	06/14/11
Units:	ug/L	Analyzed:	06/16/11
Diln Fac:	1.000		

Type: MS Lab ID: QC596416

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	14.08	2,000	1,774	88	66-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	78-123

Type: MSD Lab ID: QC596417

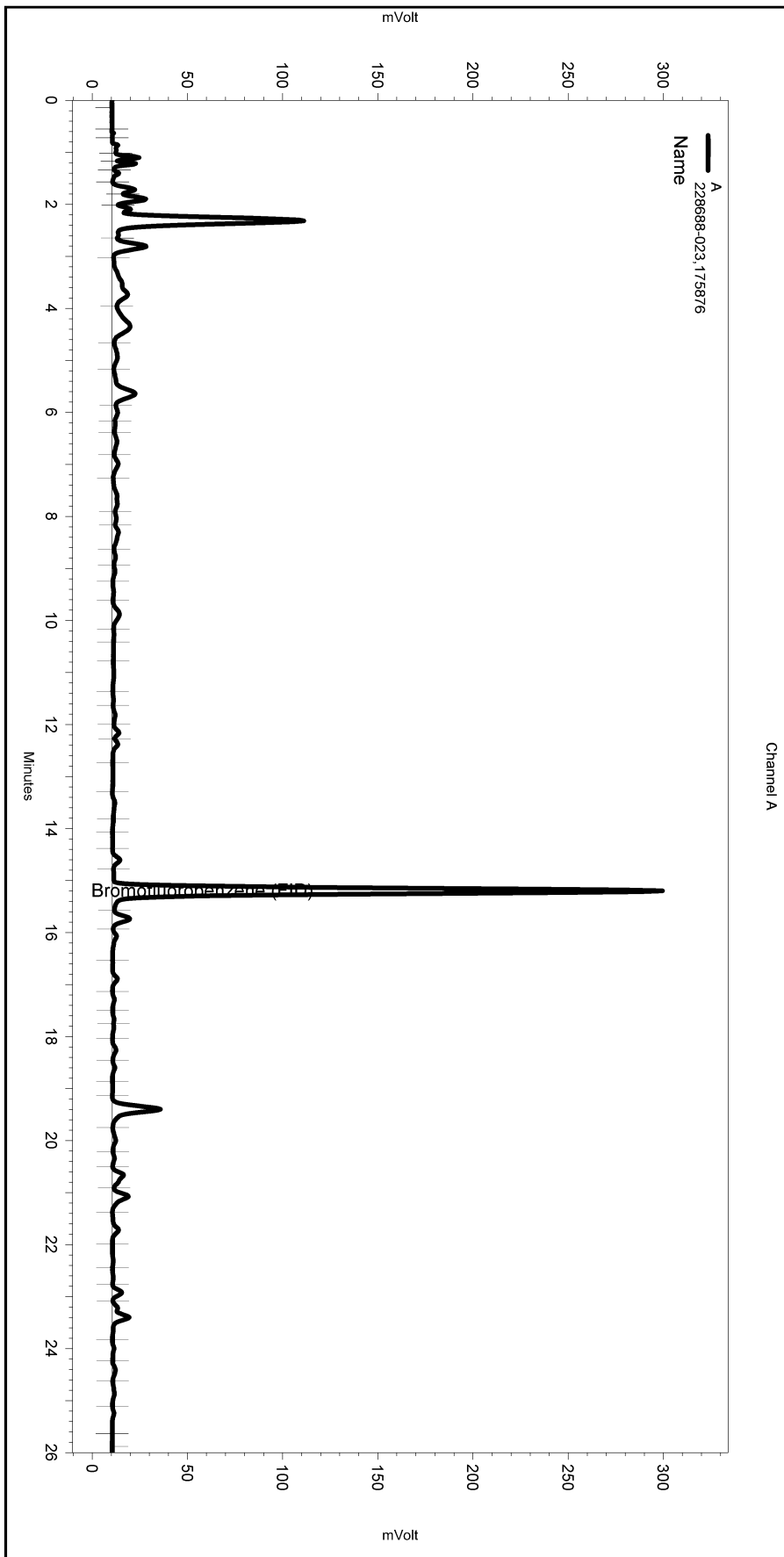
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,801	89	66-120	1	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	78-123

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\166.seq
 Sample Name: 228688-023,175876
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\166-026
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx153.met

Software Version 3.1.7
 Run Date: 6/16/2011 7:02:25 AM
 Analysis Date: 6/16/2011 7:31:08 AM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: a1.0



---< General Method Parameters >-----

No items selected for this section

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No items selected for this section

Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

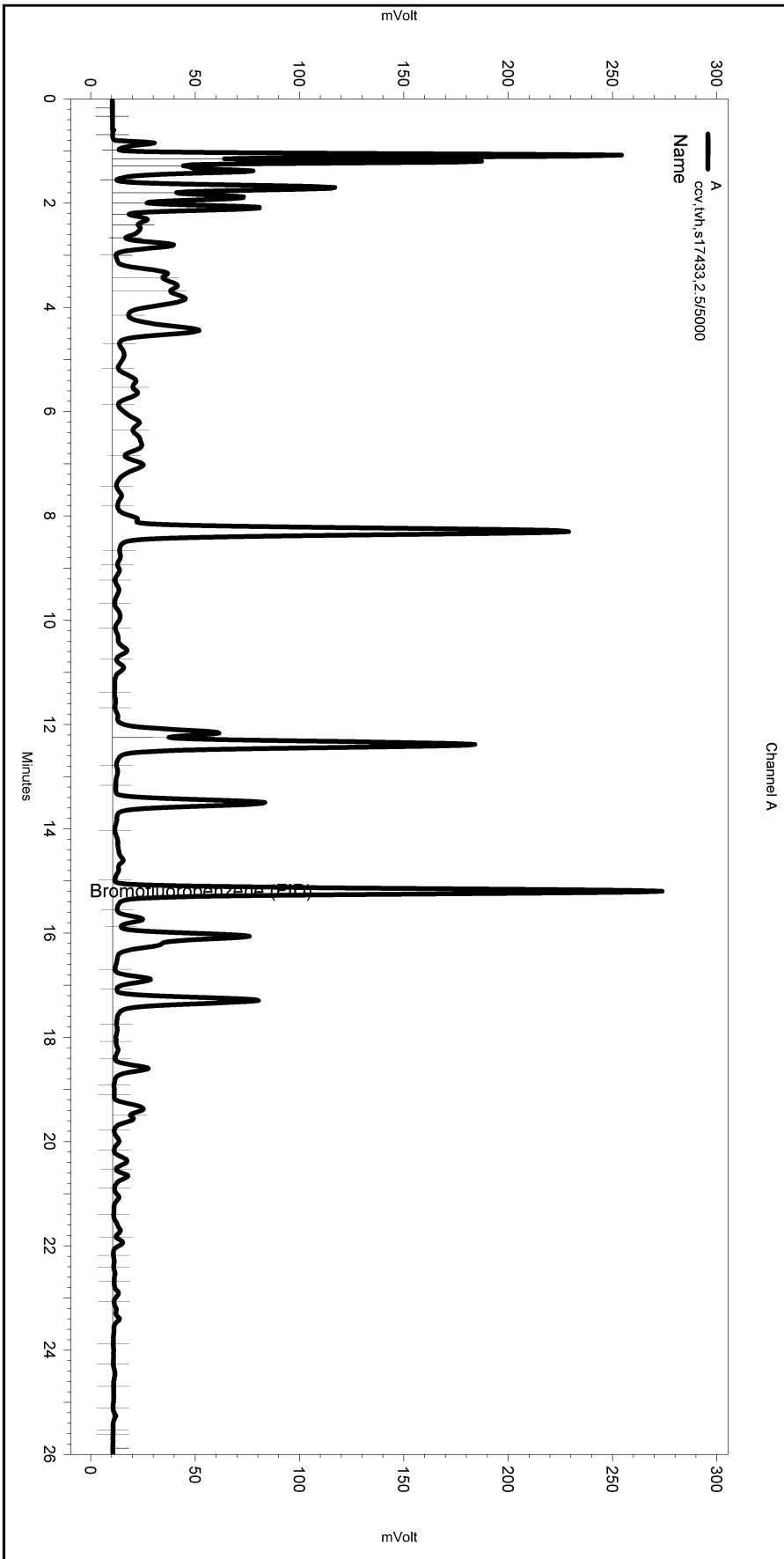
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Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
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Channel A

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC07\Sequence\166.seq
 Sample Name: ccv,tvh,s17433,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC07\Data\166-003
 Instrument: GC07 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC07\Method\tvhbx153.met

Software Version 3.1.7
 Run Date: 6/15/2011 11:51:39 AM
 Analysis Date: 6/15/2011 12:20:23 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application Data\ChromatographySystem\Recovery Data\Instrument.10049\166-003_5F37.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Channel A

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/10/11
Units:	mg/Kg	Received:	06/13/11
Basis:	as received		

Field ID:	B-4 @ 9 FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	175865
Lab ID:	228688-003	Analyzed:	06/15/11

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	74-132

Field ID:	B-5 @ 8	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	175865
Lab ID:	228688-006	Analyzed:	06/15/11

Analyte	Result	RL
Gasoline C7-C12	18 Y	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	146 *	74-132

Field ID:	B-6 @ 7	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	175865
Lab ID:	228688-014	Analyzed:	06/15/11

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	74-132

Field ID:	B-7 @ 10	Diln Fac:	20.00
Type:	SAMPLE	Batch#:	175919
Lab ID:	228688-028	Analyzed:	06/16/11

Analyte	Result	RL
Gasoline C7-C12	180	20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	125	74-132

*= 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 #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	06/10/11
Units:	mg/Kg	Received:	06/13/11
Basis:	as received		

Field ID:	B-8 @ 4.5	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	175865
Lab ID:	228688-034	Analyzed:	06/15/11

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	74-132

Field ID:	B-9 @ 8	Diln Fac:	40.00
Type:	SAMPLE	Batch#:	175919
Lab ID:	228688-046	Analyzed:	06/16/11

Analyte	Result	RL
Gasoline C7-C12	140	40

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	74-132

Type:	BLANK	Batch#:	175865
Lab ID:	QC596371	Analyzed:	06/15/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	92	74-132

Type:	BLANK	Batch#:	175919
Lab ID:	QC596592	Analyzed:	06/16/11
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	74-132

*= 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 #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596370	Batch#:	175865
Matrix:	Soil	Analyzed:	06/15/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9847	98	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	74-132

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	B-4 @ 9 FT	Diln Fac:	1.000
MSS Lab ID:	228688-003	Batch#:	175865
Matrix:	Soil	Sampled:	06/10/11
Units:	mg/Kg	Received:	06/13/11
Basis:	as received	Analyzed:	06/15/11

Type: MS Lab ID: QC596404

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.1188	10.53	10.27	96	43-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	74-132

Type: MSD Lab ID: QC596405

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.804	9.129	92	43-120	5	34

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	74-132

RPD= Relative Percent Difference

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596589	Batch#:	175919
Matrix:	Soil	Analyzed:	06/16/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8924	89	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	89	74-132

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	228737-001	Batch#:	175919
Matrix:	Soil	Sampled:	06/15/11
Units:	mg/Kg	Received:	06/15/11
Basis:	as received	Analyzed:	06/17/11

Type: MS Lab ID: QC596778

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.05406	10.75	7.388	68	43-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	86	74-132

Type: MSD Lab ID: QC596779

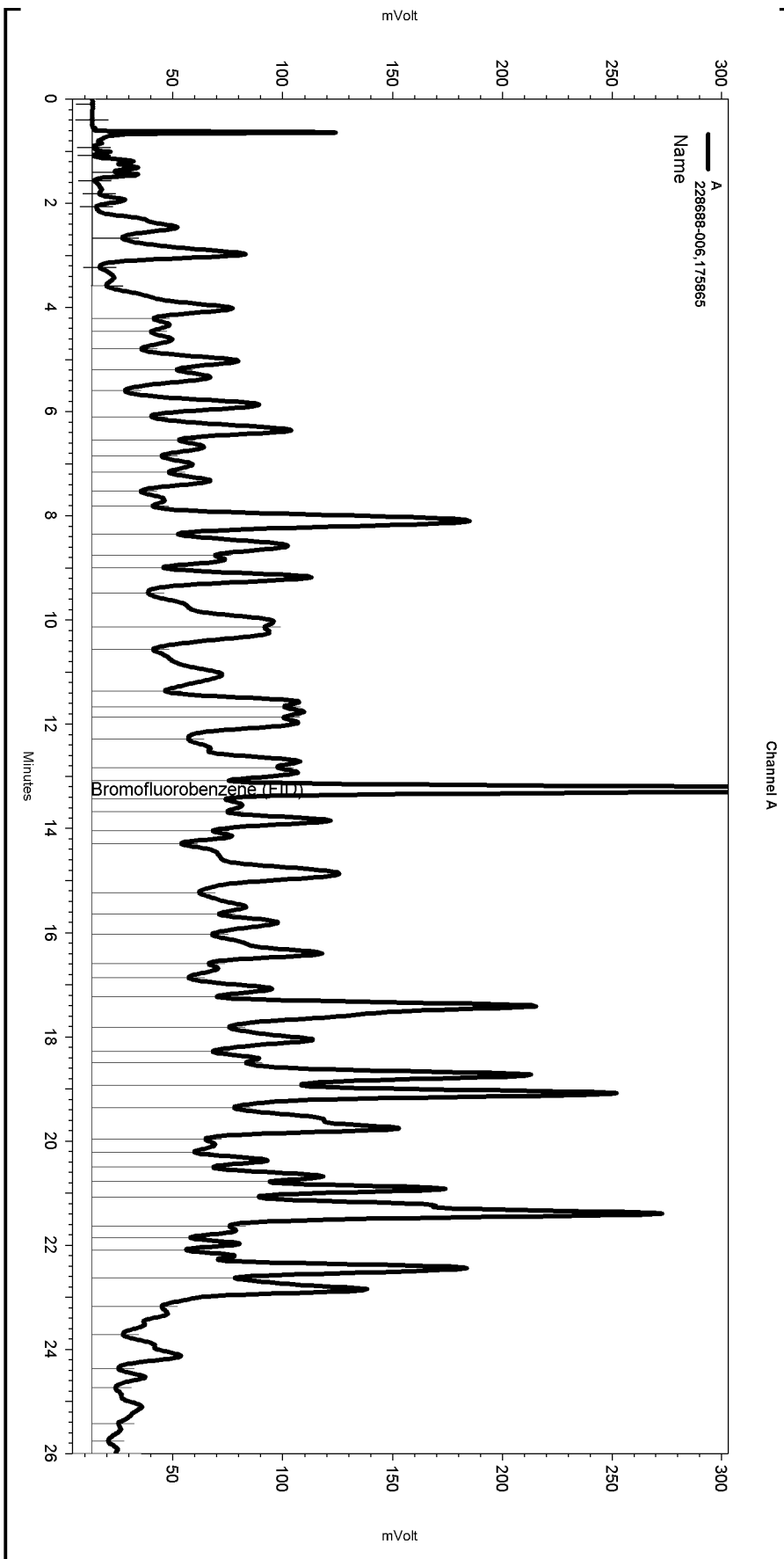
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.259	7.959	85	43-120	22	34

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	74-132

RPD= Relative Percent Difference

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence\166.seq
 Sample Name: 228688-006,175865
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\166-014
 Instrument: GC05 (Offline) Vial: N/A Operator: Tvh 2. Analyst (lims2k3\tvh2)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\TVHBTXE111.met

Software Version 3.1.7
 Run Date: 6/15/2011 8:38:04 PM
 Analysis Date: 6/16/2011 11:56:04 AM
 Sample Amount: 0.93 Multiplier: 0.93
 Vial & pH or Core ID: b



-----< General Method Parameters >-----

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

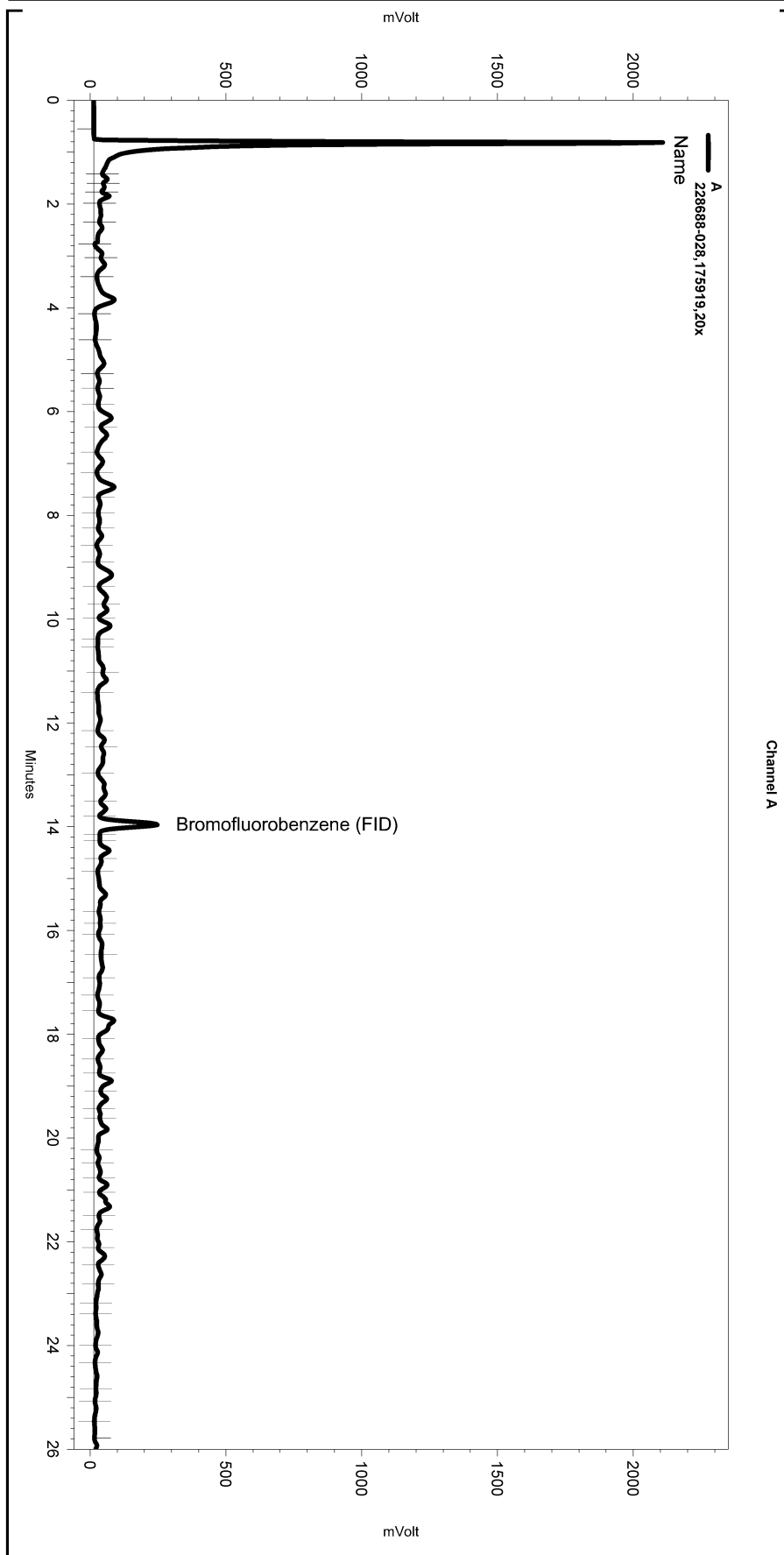
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\166-014

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\167.seq
 Sample Name: 228688-028,175919,20x
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\167-015
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\TVHBTXE159.MET

Software Version 3.1.7
 Run Date: 6/16/2011 10:48:08 PM
 Analysis Date: 6/17/2011 11:22:15 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: b



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No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

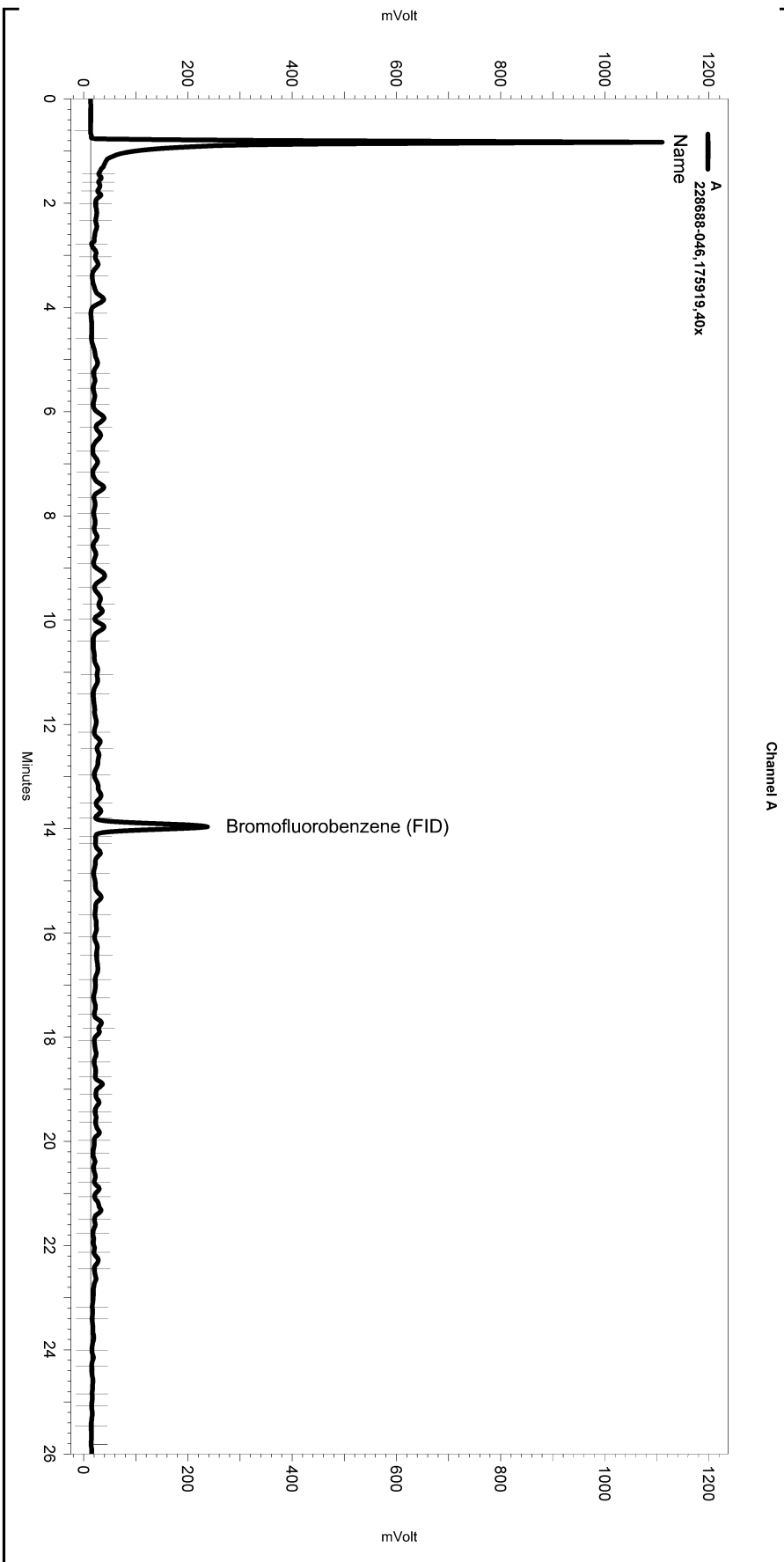
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\167-015

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	25.955	0
Yes	Split Peak	14.145	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC19\Sequence\167.seq
 Sample Name: 228688-046,175919,40x
 Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\167-016
 Instrument: GC19 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC19\Method\lvhbtxe159.met

Software Version 3.1.7
 Run Date: 6/16/2011 11:25:41 PM
 Analysis Date: 6/17/2011 11:26:06 AM
 Sample Amount: 1 Multiplier: 1
 Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

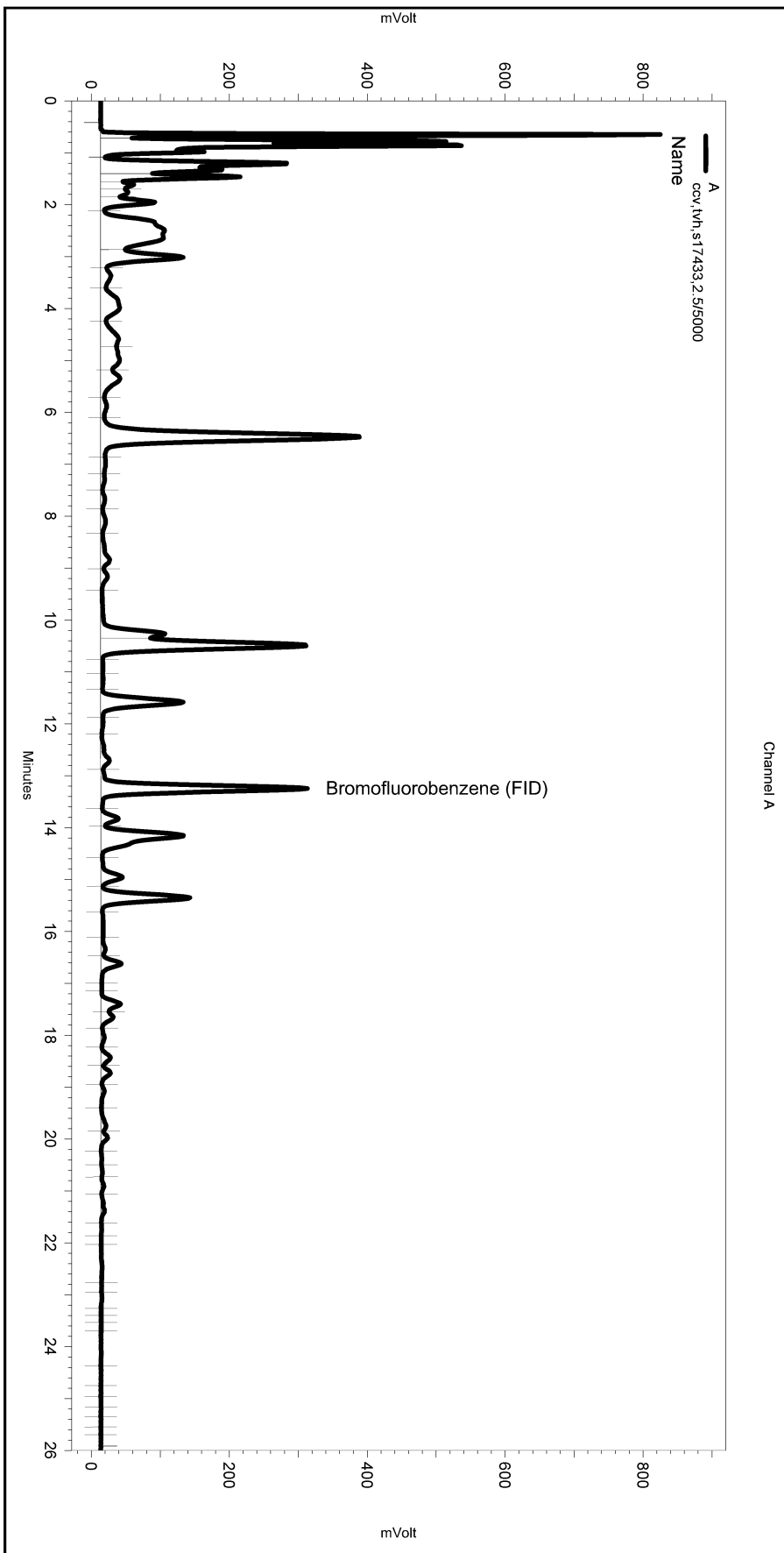
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC19\Data\167-016

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseline	0	26.017	0
Yes	Split Peak	14.153	0	0

Sequence File: \\Lims\gdrive\ezchrom\Projects\GC05\Sequence166.seq
 Sample Name: ccv,tvh,s17433,2.5/5000
 Data File: \\Lims\gdrive\ezchrom\Projects\GC05\Data\166-004
 Instrument: GC05 Vial: N/A Operator: lims2k3\tvh3
 Method Name: \\Lims\gdrive\ezchrom\Projects\GC05\Method\tvhbtxe111.met

Software Version 3.1.7
 Run Date: 6/15/2011 12:37:47 PM
 Analysis Date: 6/15/2011 1:06:30 PM
 Sample Amount: 5 Multiplier: 5
 Vial & pH or Core ID: {Data Description}



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No items selected for this section

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Integration Events

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Width	0	0	0.2
Yes	Threshold	0	0	50

Manual Integration Fixes

Data File: C:\Documents and Settings\All Users\Application
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 Data\Instrument.10048\166-004_62A3.tmp

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
None				

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	06/10/11
Units:	ug/L	Received:	06/13/11
Diln Fac:	1.000		

Field ID:	B-4	Batch#:	175864
Type:	SAMPLE	Prepared:	06/15/11
Lab ID:	228688-001	Analyzed:	06/17/11

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

Surrogate	%REC	Limits
o-Terphenyl	76	68-120

Field ID:	B-5	Prepared:	06/15/11
Type:	SAMPLE	Analyzed:	06/16/11
Lab ID:	228688-005	Cleanup Method:	EPA 3630C
Batch#:	175864		

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

Surrogate	%REC	Limits
o-Terphenyl	81	68-120

Field ID:	B-7	Prepared:	06/15/11
Type:	SAMPLE	Analyzed:	06/16/11
Lab ID:	228688-023	Cleanup Method:	EPA 3630C
Batch#:	175864		

Analyte	Result	RL
Diesel C10-C24	61 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	70	68-120

Field ID:	B-8	Prepared:	06/15/11
Type:	SAMPLE	Analyzed:	06/17/11
Lab ID:	228688-033	Cleanup Method:	EPA 3630C
Batch#:	175864		

Analyte	Result	RL
Diesel C10-C24	ND	63
Motor Oil C24-C36	ND	380

Surrogate	%REC	Limits
o-Terphenyl	95	68-120

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

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	06/10/11
Units:	ug/L	Received:	06/13/11
Diln Fac:	1.000		

Field ID:	B-9	Prepared:	06/17/11
Type:	SAMPLE	Analyzed:	06/19/11
Lab ID:	228688-042	Cleanup Method:	EPA 3630C
Batch#:	175965		

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

Surrogate	%REC	Limits
o-Terphenyl	102	68-120

Type:	BLANK	Prepared:	06/15/11
Lab ID:	QC596364	Analyzed:	06/16/11
Batch#:	175864	Cleanup Method:	EPA 3630C

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

Surrogate	%REC	Limits
o-Terphenyl	78	68-120

Type:	BLANK	Prepared:	06/17/11
Lab ID:	QC596797	Analyzed:	06/19/11
Batch#:	175965	Cleanup Method:	EPA 3630C

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

Surrogate	%REC	Limits
o-Terphenyl	86	68-120

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

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596365	Batch#:	175864
Matrix:	Water	Prepared:	06/15/11
Units:	ug/L	Analyzed:	06/16/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	1,720	69	61-120

Surrogate	%REC	Limits
o-Terphenyl	91	68-120

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175864
MSS Lab ID:	228724-001	Sampled:	06/14/11
Matrix:	Water	Received:	06/15/11
Units:	ug/L	Prepared:	06/15/11
Diln Fac:	1.000	Analyzed:	06/16/11

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC596366

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<15.94	2,500	1,817	73	33-140

Surrogate	%REC	Limits
o-Terphenyl	88	68-120

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC596367

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	1,674	67	33-140	8	30

Surrogate	%REC	Limits
o-Terphenyl	82	68-120

RPD= Relative Percent Difference

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596798	Batch#:	175965
Matrix:	Water	Prepared:	06/17/11
Units:	ug/L	Analyzed:	06/19/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,123	85	61-120

Surrogate	%REC	Limits
o-Terphenyl	94	68-120

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175965
MSS Lab ID:	228700-002	Sampled:	06/13/11
Matrix:	Water	Received:	06/14/11
Units:	ug/L	Prepared:	06/17/11
Diln Fac:	1.000	Analyzed:	06/19/11

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC596799

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	<15.94	2,500	2,189	88	33-140

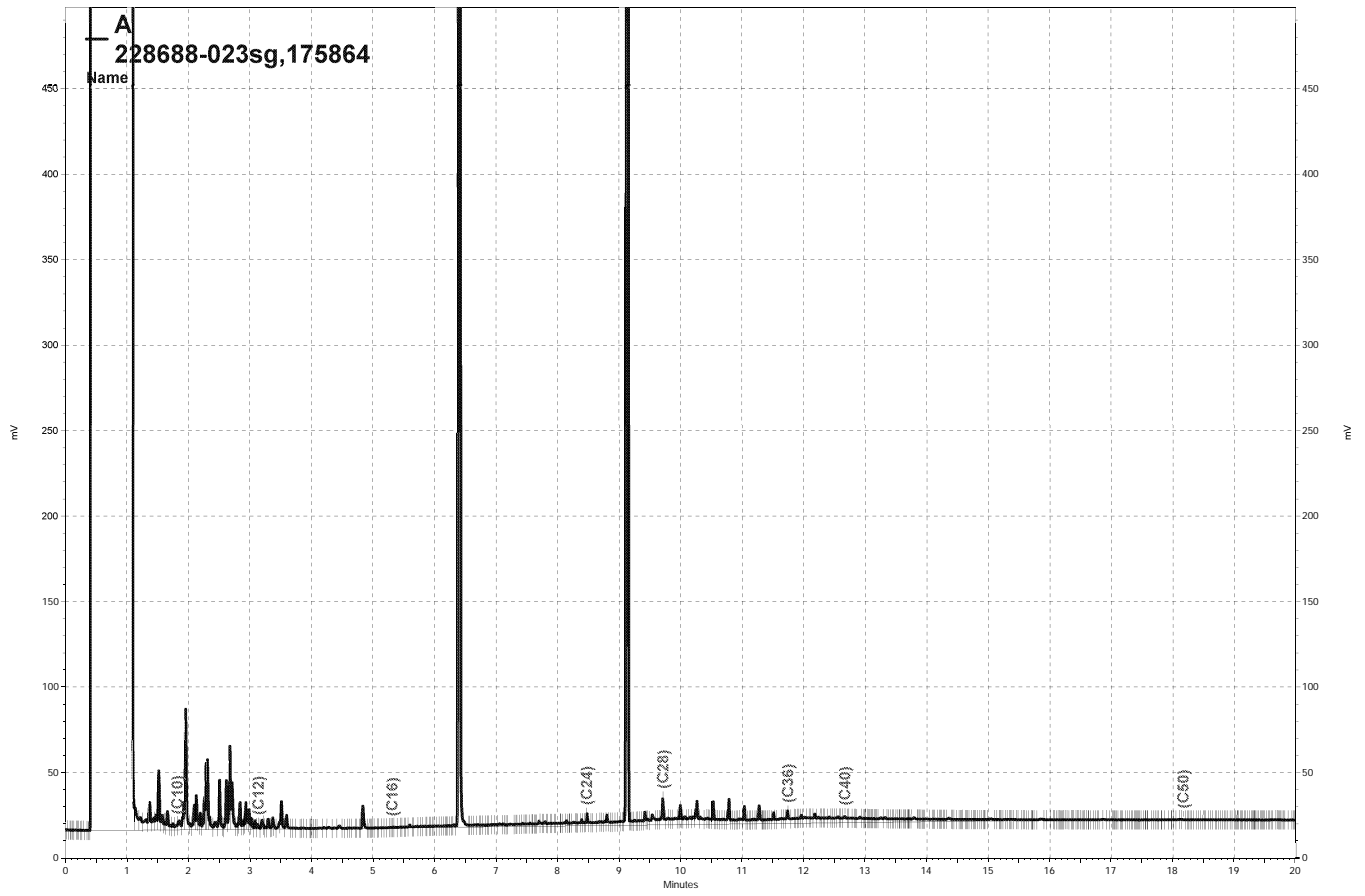
Surrogate	%REC	Limits
o-Terphenyl	98	68-120

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC596800

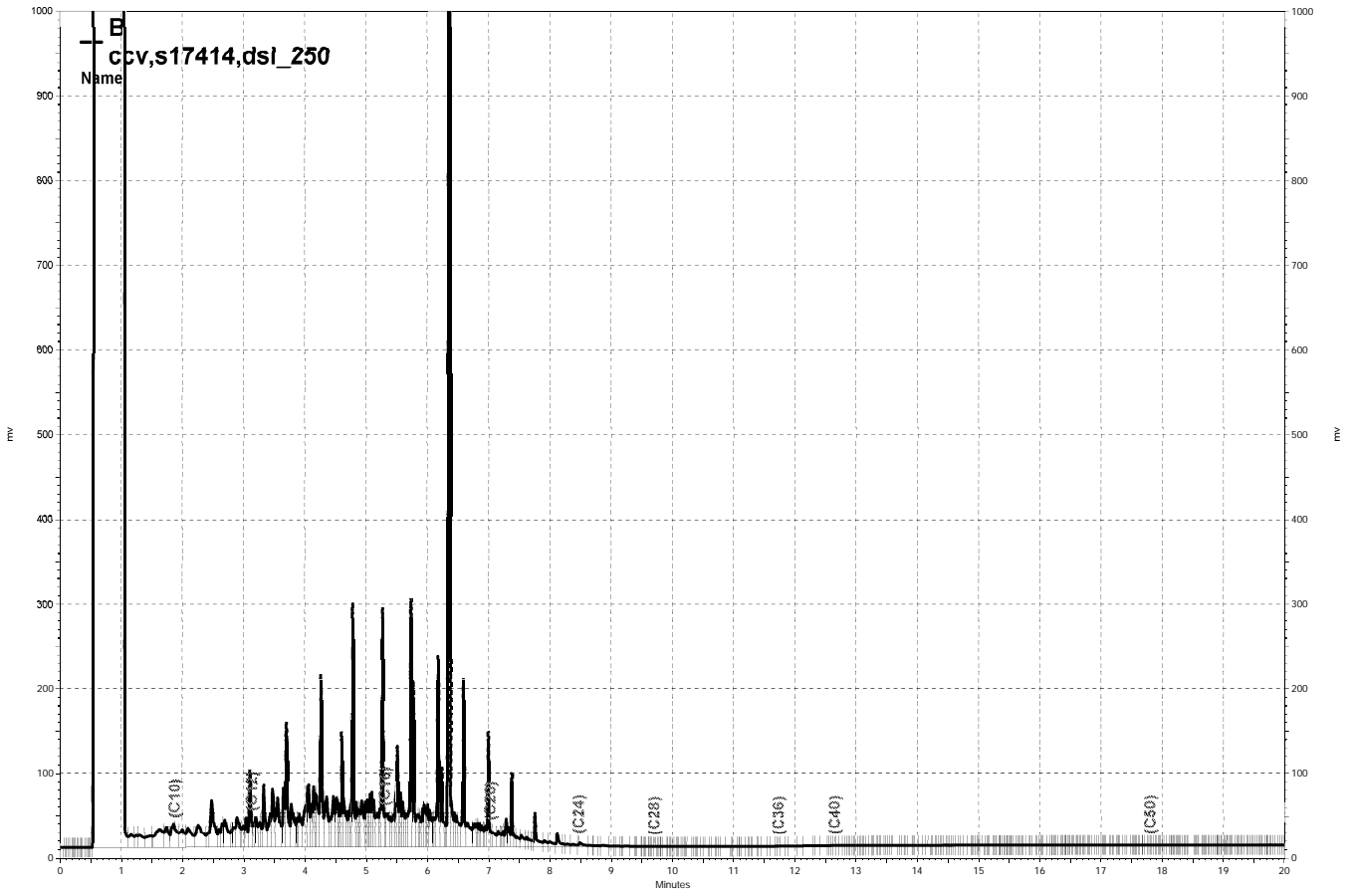
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,180	87	33-140	0	30

Surrogate	%REC	Limits
o-Terphenyl	101	68-120

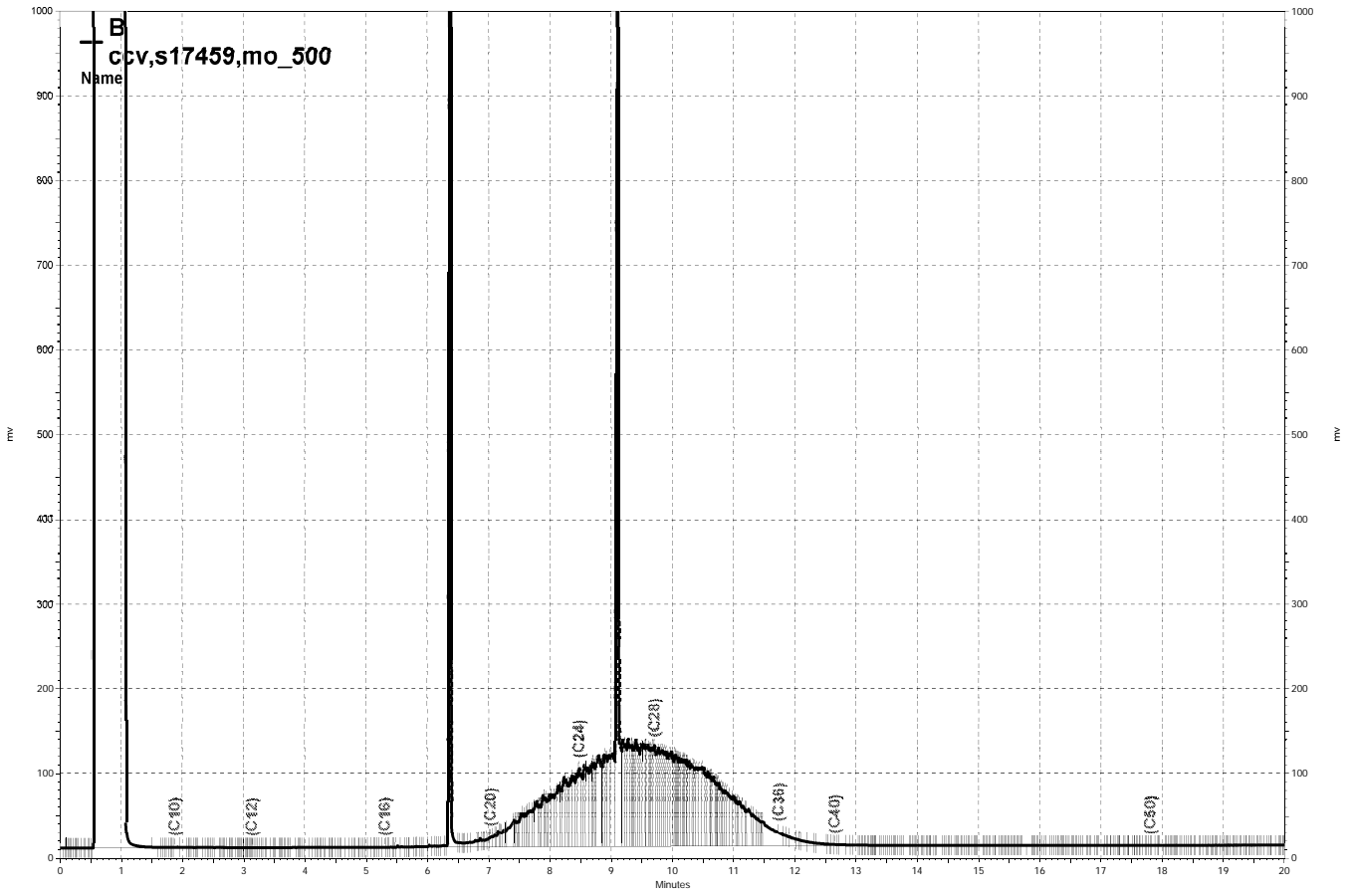
RPD= Relative Percent Difference



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\167a020, A



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\167b004, B



— \\Lims\gdrive\ezchrom\Projects\GC15B\Data\170b005, B

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	175962
Units:	mg/Kg	Sampled:	06/10/11
Basis:	as received	Received:	06/13/11
Diln Fac:	1.000	Prepared:	06/17/11

Field ID: B-4 @ 9 FT
 Type: SAMPLE
 Lab ID: 228688-003

Analyzed: 06/20/11
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	126 *	62-120

Field ID: B-5 @ 8
 Type: SAMPLE
 Lab ID: 228688-006

Analyzed: 06/20/11
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	59 Y	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	96	62-120

Field ID: B-6 @ 7
 Type: SAMPLE
 Lab ID: 228688-014

Analyzed: 06/20/11
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	99	62-120

Field ID: B-7 @ 10
 Type: SAMPLE
 Lab ID: 228688-028

Analyzed: 06/20/11
 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	35 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	96	62-120

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

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	175962
Units:	mg/Kg	Sampled:	06/10/11
Basis:	as received	Received:	06/13/11
Diln Fac:	1.000	Prepared:	06/17/11

Field ID: B-8 @ 4.5 Analyzed: 06/20/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 228688-034

Analyte	Result	RL
Diesel C10-C24	3.2 Y	1.0
Motor Oil C24-C36	23	5.0

Surrogate	%REC	Limits
o-Terphenyl	93	62-120

Field ID: B-9 @ 8 Analyzed: 06/20/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 228688-046

Analyte	Result	RL
Diesel C10-C24	58 Y	1.0
Motor Oil C24-C36	6.1	5.0

Surrogate	%REC	Limits
o-Terphenyl	107	62-120

Type: BLANK Analyzed: 06/19/11
 Lab ID: QC596786 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	103	62-120

*= 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 Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596787	Batch#:	175962
Matrix:	Soil	Prepared:	06/17/11
Units:	mg/Kg	Analyzed:	06/19/11

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	50.26	53.60	107	54-138

Surrogate	%REC	Limits
o-Terphenyl	112	62-120

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	175962
MSS Lab ID:	228667-001	Sampled:	06/09/11
Matrix:	Soil	Received:	06/10/11
Units:	mg/Kg	Prepared:	06/17/11
Basis:	as received	Analyzed:	06/20/11
Diln Fac:	1.000		

Type: MS Cleanup Method: EPA 3630C
 Lab ID: QC596788

Analyte	MSS Result	Spiked	Result	%REC	Limits
Diesel C10-C24	1.123	50.22	42.54	82	35-150

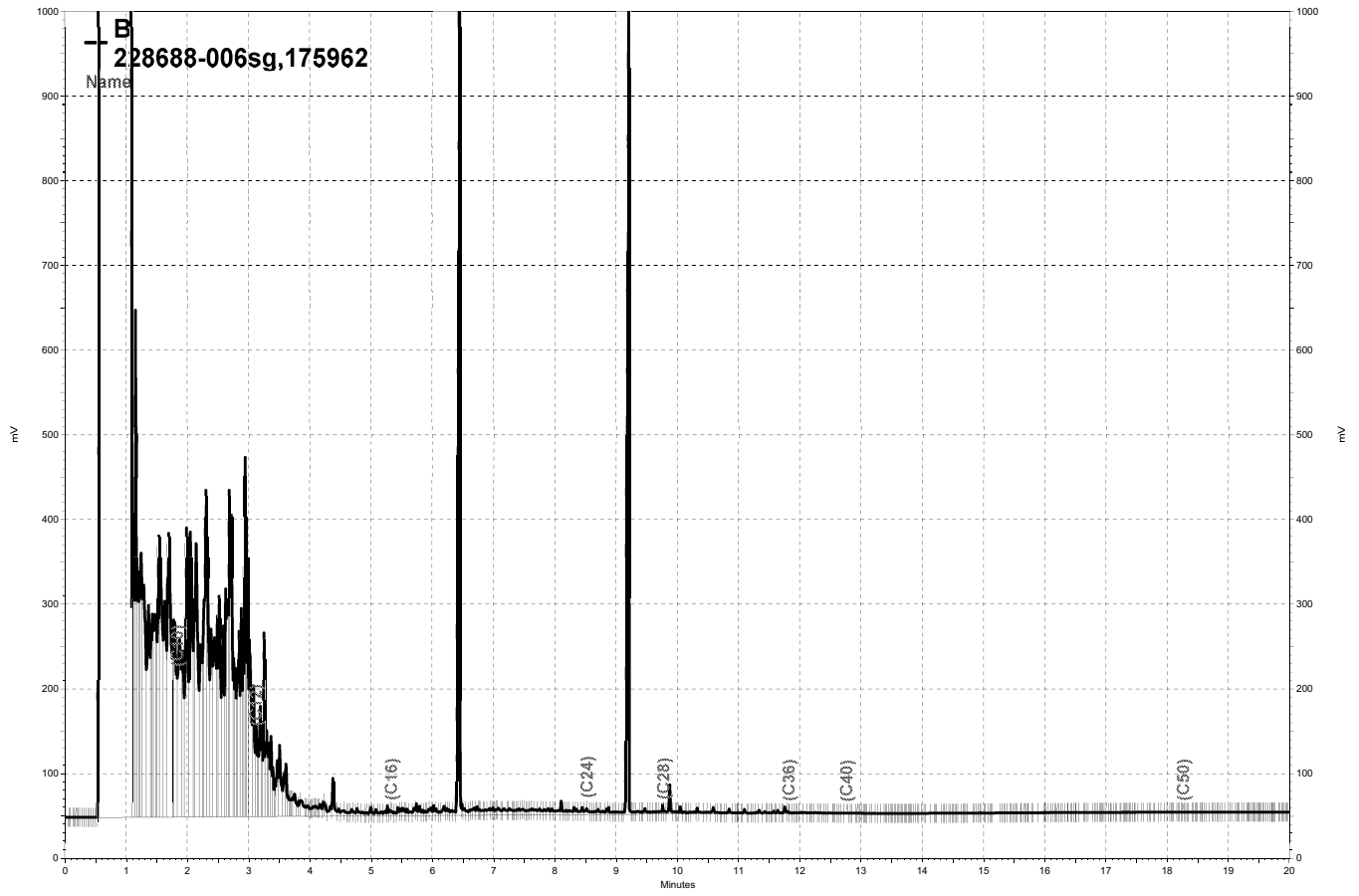
Surrogate	%REC	Limits
o-Terphenyl	86	62-120

Type: MSD Cleanup Method: EPA 3630C
 Lab ID: QC596789

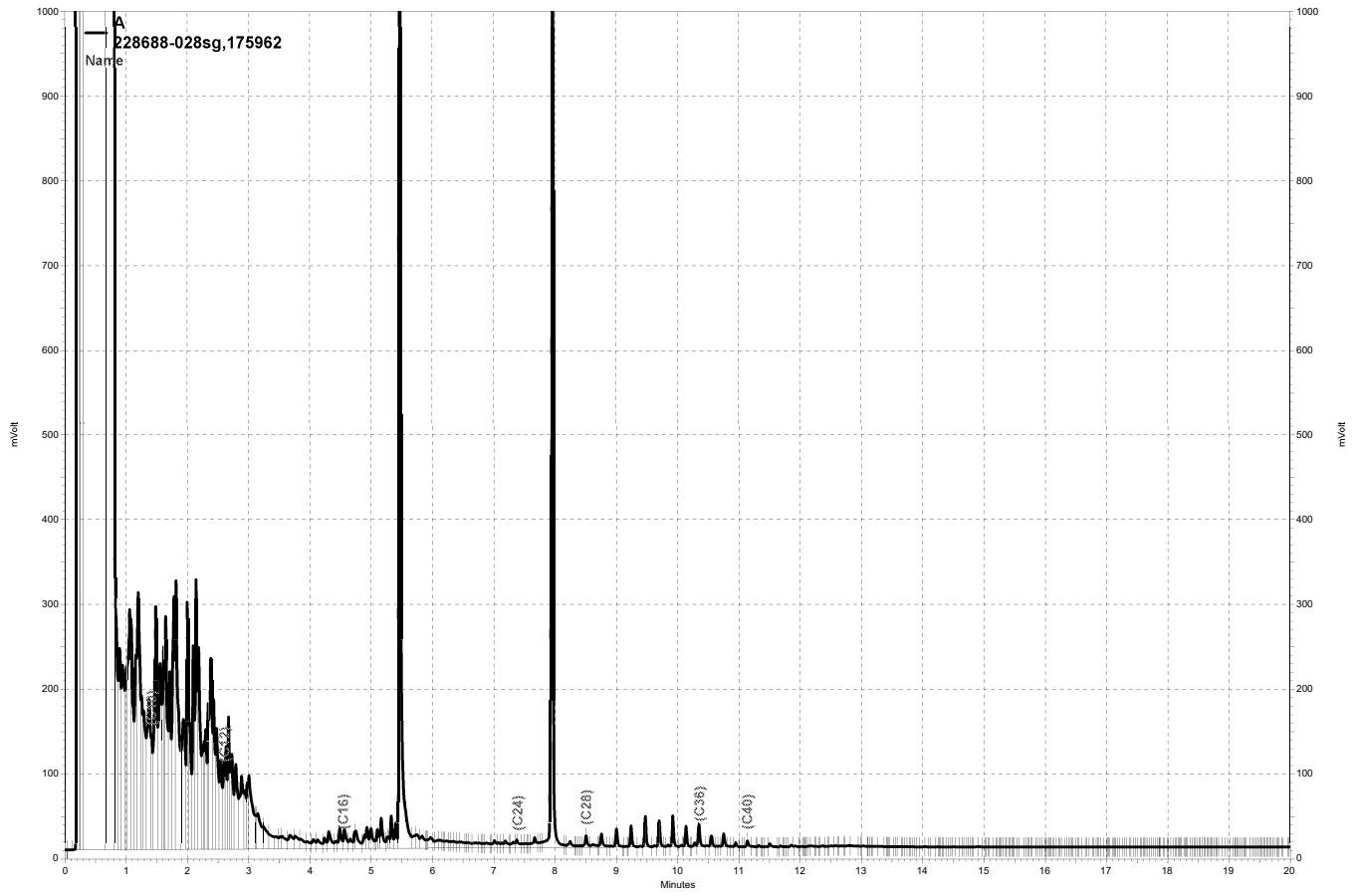
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	50.29	56.35	110	35-150	28	71

Surrogate	%REC	Limits
o-Terphenyl	109	62-120

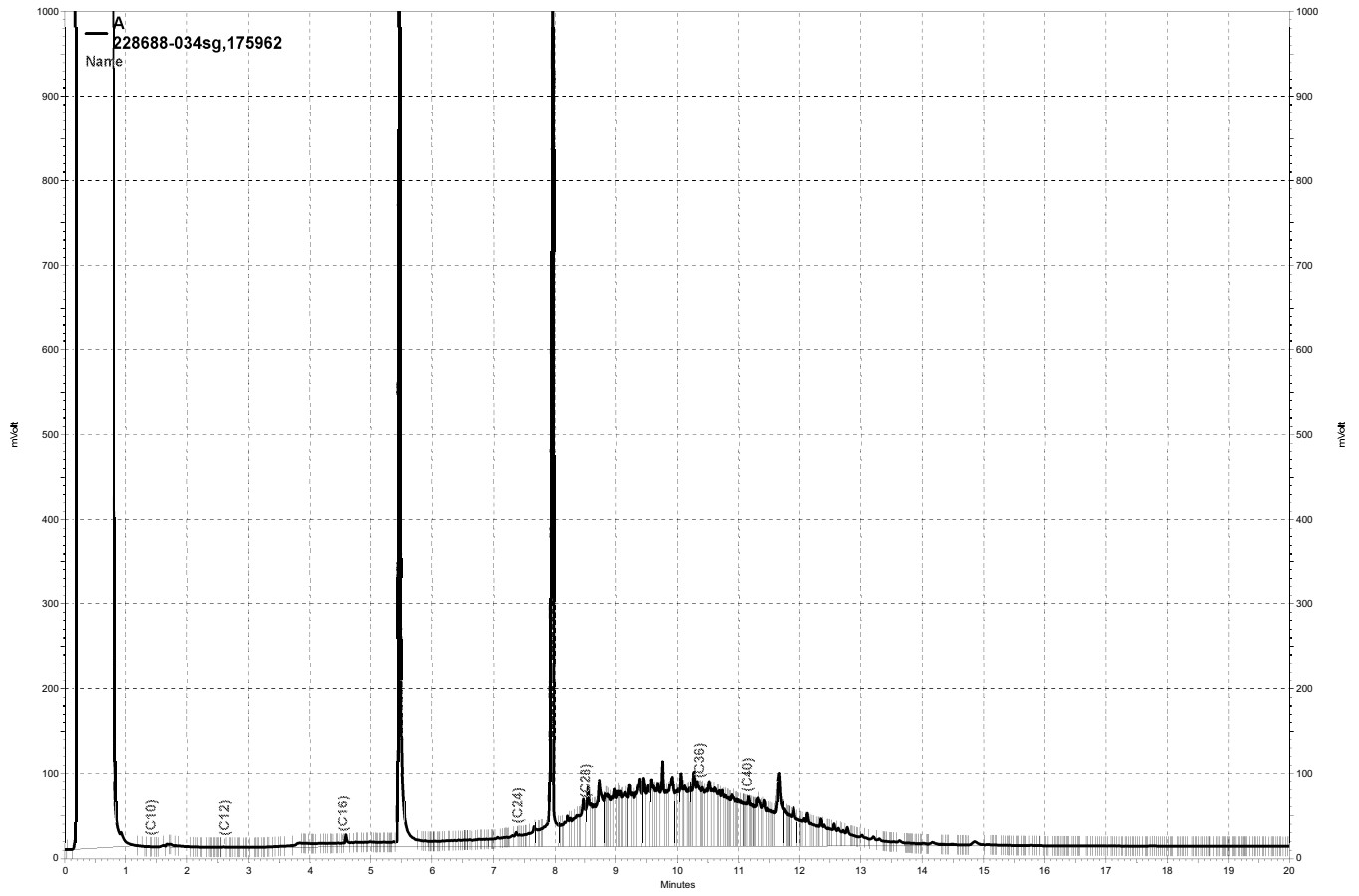
RPD= Relative Percent Difference



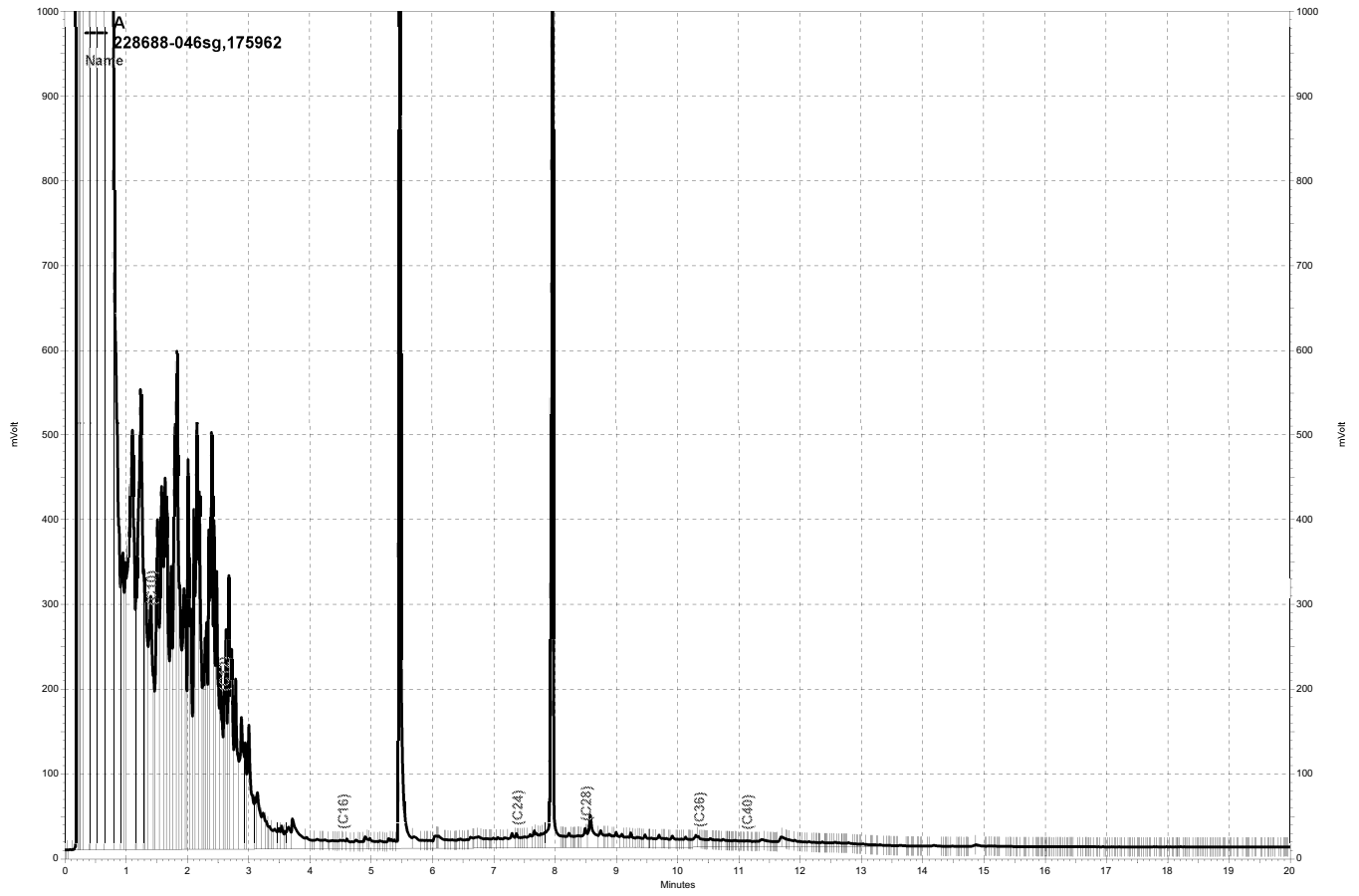
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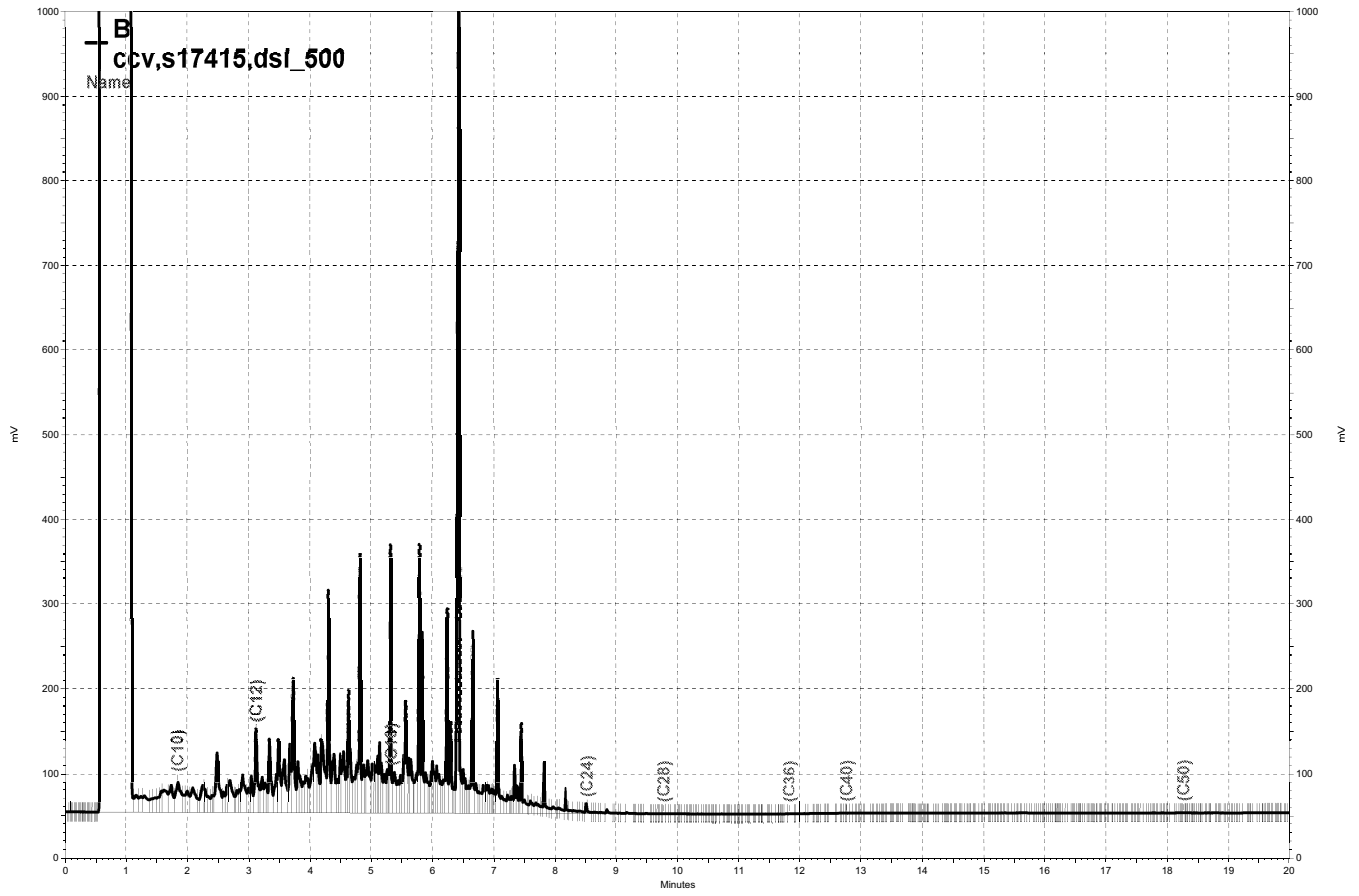
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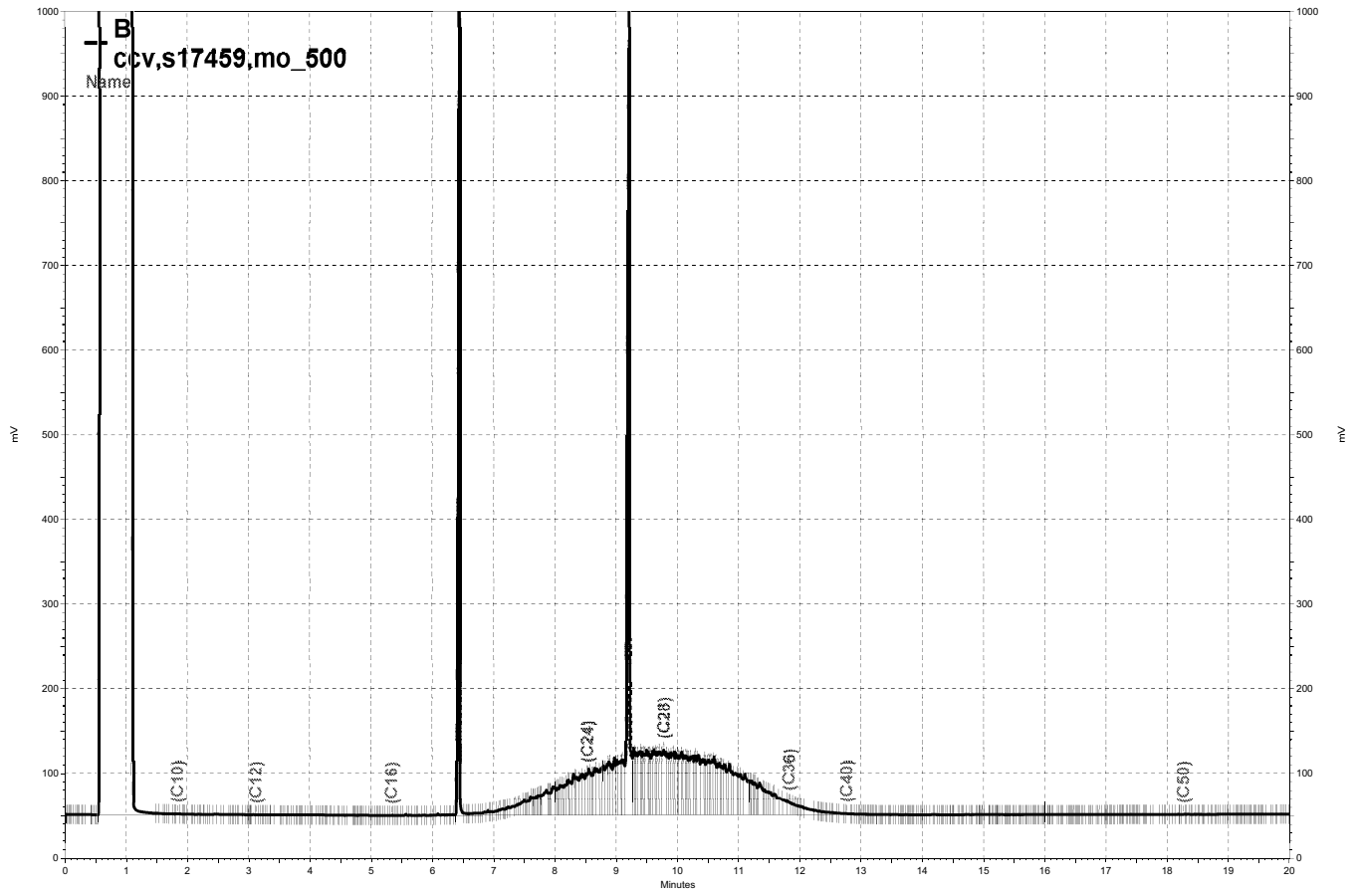
— \\Lims\gdrive\ezchrom\Projects\GC26\Data\170a032, A



— \\Lims\gdrive\ezchrom\Projects\GC26\Data\170a033, A



— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\171b004, B



— \\Lims\gdrive\ezchrom\Projects\GC14B\Data\171b005, B

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-4	Batch#: 175947
Lab ID: 228688-001	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-4	Batch#: 175947
Lab ID: 228688-001	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-127
1,2-Dichloroethane-d4	108	73-145
Toluene-d8	99	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-5	Batch#: 175947
Lab ID: 228688-005	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	1.2	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-5	Batch#: 175947
Lab ID: 228688-005	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	109	80-127
1,2-Dichloroethane-d4	110	73-145
Toluene-d8	96	80-120
Bromofluorobenzene	101	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-7	Batch#: 175951
Lab ID: 228688-023	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	1.0	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	1.1	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	0.9	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-7	Batch#: 175951
Lab ID: 228688-023	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	1.2	0.5
m,p-Xylenes	0.9	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	1.5	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	3.4	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-127
1,2-Dichloroethane-d4	92	73-145
Toluene-d8	99	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-8	Batch#: 175951
Lab ID: 228688-033	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-8	Batch#: 175951
Lab ID: 228688-033	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-127
1,2-Dichloroethane-d4	91	73-145
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-9	Batch#: 175951
Lab ID: 228688-042	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-9	Batch#: 175951
Lab ID: 228688-042	Sampled: 06/10/11
Matrix: Water	Received: 06/13/11
Units: ug/L	Analyzed: 06/17/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-127
1,2-Dichloroethane-d4	92	73-145
Toluene-d8	98	80-120
Bromofluorobenzene	97	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	175947
Units:	ug/L	Analyzed:	06/17/11
Diln Fac:	1.000		

Type: BS Lab ID: QC596711

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.30	82	64-133
Benzene	12.50	12.69	102	80-122
Trichloroethene	12.50	11.80	94	78-120
Toluene	12.50	12.07	97	80-120
Chlorobenzene	12.50	12.19	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	80-127
1,2-Dichloroethane-d4	104	73-145
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

Type: BSD Lab ID: QC596712

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.916	79	64-133	4	20
Benzene	12.50	12.08	97	80-122	5	20
Trichloroethene	12.50	11.10	89	78-120	6	20
Toluene	12.50	11.94	96	80-120	1	20
Chlorobenzene	12.50	11.96	96	80-120	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	97	80-127
1,2-Dichloroethane-d4	98	73-145
Toluene-d8	97	80-120
Bromofluorobenzene	100	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596713	Batch#:	175947
Matrix:	Water	Analyzed:	06/17/11
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596713	Batch#:	175947
Matrix:	Water	Analyzed:	06/17/11
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	103	80-127
1,2-Dichloroethane-d4	100	73-145
Toluene-d8	102	80-120
Bromofluorobenzene	99	80-120

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596727	Batch#:	175951
Matrix:	Water	Analyzed:	06/17/11
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596727	Batch#:	175951
Matrix:	Water	Analyzed:	06/17/11
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	98	80-127
1,2-Dichloroethane-d4	92	73-145
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-120

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-4 @ 9 FT	Diln Fac: 0.9921
Lab ID: 228688-003	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	9.9
Chloromethane	ND	9.9
Vinyl Chloride	ND	9.9
Bromomethane	ND	9.9
Chloroethane	ND	9.9
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	9.9
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	9.9
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	9.9
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-4 @ 9 FT	Diln Fac: 0.9921
Lab ID: 228688-003	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	102	71-126
1,2-Dichloroethane-d4	108	74-130
Toluene-d8	100	80-120
Bromofluorobenzene	105	76-131

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-5 @ 8	Diln Fac: 50.00
Lab ID: 228688-006	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	ND	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	ND	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-5 @ 8	Diln Fac: 50.00
Lab ID: 228688-006	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	ND	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	ND	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	ND	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	ND	250
sec-Butylbenzene	ND	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	290	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-126
1,2-Dichloroethane-d4	95	74-130
Toluene-d8	99	80-120
Bromofluorobenzene	113	76-131
Trifluorotoluene (MeOH)	96	58-142

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-6 @ 7	Diln Fac: 0.9506
Lab ID: 228688-014	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	9.5
Chloromethane	ND	9.5
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Chloroethane	ND	9.5
Trichlorofluoromethane	ND	4.8
Acetone	ND	19
Freon 113	ND	4.8
1,1-Dichloroethene	ND	4.8
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.8
MTBE	ND	4.8
trans-1,2-Dichloroethene	ND	4.8
Vinyl Acetate	ND	48
1,1-Dichloroethane	ND	4.8
2-Butanone	ND	9.5
cis-1,2-Dichloroethene	ND	4.8
2,2-Dichloropropane	ND	4.8
Chloroform	ND	4.8
Bromochloromethane	ND	4.8
1,1,1-Trichloroethane	ND	4.8
1,1-Dichloropropene	ND	4.8
Carbon Tetrachloride	ND	4.8
1,2-Dichloroethane	ND	4.8
Benzene	ND	4.8
Trichloroethene	ND	4.8
1,2-Dichloropropane	ND	4.8
Bromodichloromethane	ND	4.8
Dibromomethane	ND	4.8
4-Methyl-2-Pentanone	ND	9.5
cis-1,3-Dichloropropene	ND	4.8
Toluene	ND	4.8
trans-1,3-Dichloropropene	ND	4.8
1,1,2-Trichloroethane	ND	4.8
2-Hexanone	ND	9.5
1,3-Dichloropropane	ND	4.8
Tetrachloroethene	ND	4.8

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-6 @ 7	Diln Fac: 0.9506
Lab ID: 228688-014	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	4.8
1,2-Dibromoethane	ND	4.8
Chlorobenzene	ND	4.8
1,1,1,2-Tetrachloroethane	ND	4.8
Ethylbenzene	ND	4.8
m,p-Xylenes	ND	4.8
o-Xylene	ND	4.8
Styrene	ND	4.8
Bromoform	ND	4.8
Isopropylbenzene	ND	4.8
1,1,2,2-Tetrachloroethane	ND	4.8
1,2,3-Trichloropropane	ND	4.8
Propylbenzene	ND	4.8
Bromobenzene	ND	4.8
1,3,5-Trimethylbenzene	ND	4.8
2-Chlorotoluene	ND	4.8
4-Chlorotoluene	ND	4.8
tert-Butylbenzene	ND	4.8
1,2,4-Trimethylbenzene	ND	4.8
sec-Butylbenzene	ND	4.8
para-Isopropyl Toluene	ND	4.8
1,3-Dichlorobenzene	ND	4.8
1,4-Dichlorobenzene	ND	4.8
n-Butylbenzene	ND	4.8
1,2-Dichlorobenzene	ND	4.8
1,2-Dibromo-3-Chloropropane	ND	4.8
1,2,4-Trichlorobenzene	ND	4.8
Hexachlorobutadiene	ND	4.8
Naphthalene	ND	4.8
1,2,3-Trichlorobenzene	ND	4.8

Surrogate	%REC	Limits
Dibromofluoromethane	99	71-126
1,2-Dichloroethane-d4	102	74-130
Toluene-d8	101	80-120
Bromofluorobenzene	103	76-131

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-7 @ 10	Diln Fac: 50.00
Lab ID: 228688-028	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	ND	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	ND	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-7 @ 10	Diln Fac: 50.00
Lab ID: 228688-028	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	300	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	1,000	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	ND	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	ND	250
sec-Butylbenzene	ND	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	840	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	330	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-126
1,2-Dichloroethane-d4	97	74-130
Toluene-d8	97	80-120
Bromofluorobenzene	105	76-131
Trifluorotoluene (MeOH)	96	58-142

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-8 @ 4.5	Diln Fac: 0.9709
Lab ID: 228688-034	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	9.7
Chloromethane	ND	9.7
Vinyl Chloride	ND	9.7
Bromomethane	ND	9.7
Chloroethane	ND	9.7
Trichlorofluoromethane	ND	4.9
Acetone	ND	19
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	19
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.7
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.7
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.7
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-8 @ 4.5	Diln Fac: 0.9709
Lab ID: 228688-034	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
1,1,1,2-Tetrachloroethane	ND	4.9
Ethylbenzene	ND	4.9
m,p-Xylenes	ND	4.9
o-Xylene	ND	4.9
Styrene	ND	4.9
Bromoform	ND	4.9
Isopropylbenzene	ND	4.9
1,1,2,2-Tetrachloroethane	ND	4.9
1,2,3-Trichloropropane	ND	4.9
Propylbenzene	ND	4.9
Bromobenzene	ND	4.9
1,3,5-Trimethylbenzene	ND	4.9
2-Chlorotoluene	ND	4.9
4-Chlorotoluene	ND	4.9
tert-Butylbenzene	ND	4.9
1,2,4-Trimethylbenzene	ND	4.9
sec-Butylbenzene	ND	4.9
para-Isopropyl Toluene	ND	4.9
1,3-Dichlorobenzene	ND	4.9
1,4-Dichlorobenzene	ND	4.9
n-Butylbenzene	ND	4.9
1,2-Dichlorobenzene	ND	4.9
1,2-Dibromo-3-Chloropropane	ND	4.9
1,2,4-Trichlorobenzene	ND	4.9
Hexachlorobutadiene	ND	4.9
Naphthalene	ND	4.9
1,2,3-Trichlorobenzene	ND	4.9

Surrogate	%REC	Limits
Dibromofluoromethane	101	71-126
1,2-Dichloroethane-d4	105	74-130
Toluene-d8	99	80-120
Bromofluorobenzene	103	76-131

ND= Not Detected
 RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-9 @ 8	Diln Fac: 50.00
Lab ID: 228688-046	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Freon 12	ND	500
Chloromethane	ND	500
Vinyl Chloride	ND	500
Bromomethane	ND	500
Chloroethane	ND	500
Trichlorofluoromethane	ND	250
Acetone	ND	1,000
Freon 113	ND	250
1,1-Dichloroethene	ND	250
Methylene Chloride	ND	1,000
Carbon Disulfide	ND	250
MTBE	ND	250
trans-1,2-Dichloroethene	ND	250
Vinyl Acetate	ND	2,500
1,1-Dichloroethane	ND	250
2-Butanone	ND	500
cis-1,2-Dichloroethene	ND	250
2,2-Dichloropropane	ND	250
Chloroform	ND	250
Bromochloromethane	ND	250
1,1,1-Trichloroethane	ND	250
1,1-Dichloropropene	ND	250
Carbon Tetrachloride	ND	250
1,2-Dichloroethane	ND	250
Benzene	ND	250
Trichloroethene	ND	250
1,2-Dichloropropane	ND	250
Bromodichloromethane	ND	250
Dibromomethane	ND	250
4-Methyl-2-Pentanone	ND	500
cis-1,3-Dichloropropene	ND	250
Toluene	ND	250
trans-1,3-Dichloropropene	ND	250
1,1,2-Trichloroethane	ND	250
2-Hexanone	ND	500
1,3-Dichloropropane	ND	250
Tetrachloroethene	ND	250

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228688	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-9 @ 8	Diln Fac: 50.00
Lab ID: 228688-046	Batch#: 175851
Matrix: Soil	Sampled: 06/10/11
Units: ug/Kg	Received: 06/13/11
Basis: as received	Analyzed: 06/15/11

Analyte	Result	RL
Dibromochloromethane	ND	250
1,2-Dibromoethane	ND	250
Chlorobenzene	ND	250
1,1,1,2-Tetrachloroethane	ND	250
Ethylbenzene	ND	250
m,p-Xylenes	ND	250
o-Xylene	ND	250
Styrene	ND	250
Bromoform	ND	250
Isopropylbenzene	ND	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250
Propylbenzene	750	250
Bromobenzene	ND	250
1,3,5-Trimethylbenzene	ND	250
2-Chlorotoluene	ND	250
4-Chlorotoluene	ND	250
tert-Butylbenzene	ND	250
1,2,4-Trimethylbenzene	ND	250
sec-Butylbenzene	ND	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	860	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	ND	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	96	71-126
1,2-Dichloroethane-d4	97	74-130
Toluene-d8	103	80-120
Bromofluorobenzene	107	76-131
Trifluorotoluene (MeOH)	98	58-142

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596309	Batch#:	175851
Matrix:	Soil	Analyzed:	06/15/11
Units:	ug/Kg		

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20
Carbon Disulfide	ND	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50
1,1-Dichloroethane	ND	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropene	ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5.0
Tetrachloroethene	ND	5.0

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC596309	Batch#:	175851
Matrix:	Soil	Analyzed:	06/15/11
Units:	ug/Kg		

Analyte	Result	RL
Dibromochloromethane	ND	5.0
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene	ND	5.0
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
4-Chlorotoluene	ND	5.0
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5.0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5.0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ND	5.0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate	%REC	Limits
Dibromofluoromethane	105	71-126
1,2-Dichloroethane-d4	104	74-130
Toluene-d8	98	80-120
Bromofluorobenzene	105	76-131

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596310	Batch#:	175851
Matrix:	Soil	Analyzed:	06/15/11
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	20.00	20.27	101	69-127
Benzene	20.00	22.07	110	80-122
Trichloroethene	20.00	20.72	104	76-123
Toluene	20.00	22.43	112	80-120
Chlorobenzene	20.00	21.29	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	103	71-126
1,2-Dichloroethane-d4	99	74-130
Toluene-d8	100	80-120
Bromofluorobenzene	100	76-131

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228688	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Field ID:	B-4 @ 9 FT	Diln Fac:	0.9785
MSS Lab ID:	228688-003	Batch#:	175851
Matrix:	Soil	Sampled:	06/10/11
Units:	ug/Kg	Received:	06/13/11
Basis:	as received	Analyzed:	06/15/11

Type: MS Lab ID: QC596311

Analyte	MSS Result	Spiked	Result	%REC	Limits
1,1-Dichloroethene	<0.5887	48.92	33.55	69	57-134
Benzene	<0.9591	48.92	37.53	77	62-123
Trichloroethene	3.600	48.92	37.18	69	50-146
Toluene	<1.294	48.92	36.14	74	59-120
Chlorobenzene	<0.2890	48.92	34.08	70	53-120

Surrogate	%REC	Limits
Dibromofluoromethane	102	71-126
1,2-Dichloroethane-d4	101	74-130
Toluene-d8	101	80-120
Bromofluorobenzene	101	76-131

Type: MSD Lab ID: QC596312

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	48.92	42.29	86	57-134	23	45
Benzene	48.92	45.43	93	62-123	19	40
Trichloroethene	48.92	45.04	85	50-146	19	46
Toluene	48.92	44.99	92	59-120	22	43
Chlorobenzene	48.92	41.59	85	53-120	20	43

Surrogate	%REC	Limits
Dibromofluoromethane	103	71-126
1,2-Dichloroethane-d4	101	74-130
Toluene-d8	100	80-120
Bromofluorobenzene	99	76-131

RPD= Relative Percent Difference



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

**Laboratory Job Number 228818
ANALYTICAL REPORT**

SOMA Environmental Engineering Inc. 6620 Owens Dr. Pleasanton, CA 94588	Project : 5032 Location : 6501 Shattuck Ave., Oakland Level : II
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Sample ID
B-6

Lab ID
228818-001

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: 
Project Manager

Date: 06/24/2011

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 228818
Client: SOMA Environmental Engineering Inc.
Project: 5032
Location: 6501 Shattuck Ave., Oakland
Request Date: 06/17/11
Samples Received: 06/17/11

This data package contains sample and QC results for one water sample, requested for the above referenced project on 06/17/11. The sample was received cold and intact.

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

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

No analytical problems were encountered.

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

No analytical problems were encountered.

COOLER RECEIPT CHECKLIST



Login # 228818 Date Received 6/17/11 Number of coolers 1
Client SOMA Project 6501 Shattuck Ave

Date Opened 6/17/11 By (print) Vidya Das (sign) [Signature]
Date Logged in 6/20/11 By (print) R. Paris (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

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 samples in the appropriate containers for indicated tests? _____ YES NO

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

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

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

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

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

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

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

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

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

COMMENTS

Total Volatile Hydrocarbons

Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	B-6	Batch#:	176014
Matrix:	Water	Sampled:	06/16/11
Units:	ug/L	Received:	06/17/11
Diln Fac:	1.000	Analyzed:	06/20/11

Type: SAMPLE Lab ID: 228818-001

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	78-123

Type: BLANK Lab ID: QC596996

Analyte	Result	RL
Gasoline C7-C12	ND	50

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	78-123

ND= Not Detected
RL= Reporting Limit

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC596995	Batch#:	176014
Matrix:	Water	Analyzed:	06/20/11
Units:	ug/L		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	977.5	98	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	78-123

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Batch#:	176014
MSS Lab ID:	228805-002	Sampled:	06/17/11
Matrix:	Water	Received:	06/17/11
Units:	ug/L	Analyzed:	06/20/11
Diln Fac:	1.000		

Type: MS Lab ID: QC596997

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	148.1	2,000	1,868	86	66-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	78-123

Type: MSD Lab ID: QC596998

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	2,000	1,942	90	66-120	4	25

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	78-123

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Field ID:	B-6	Batch#:	176013
Matrix:	Water	Sampled:	06/16/11
Units:	ug/L	Received:	06/17/11
Diln Fac:	1.000	Prepared:	06/20/11

Type: SAMPLE Analyzed: 06/22/11
 Lab ID: 228818-001 Cleanup Method: EPA 3630C

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

Surrogate	%REC	Limits
o-Terphenyl	101	68-120

Type: BLANK Analyzed: 06/21/11
 Lab ID: QC596992 Cleanup Method: EPA 3630C

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

Surrogate	%REC	Limits
o-Terphenyl	106	68-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	176013
Units:	ug/L	Prepared:	06/20/11
Diln Fac:	1.000	Analyzed:	06/21/11

Type: BS Cleanup Method: EPA 3630C
 Lab ID: QC596993

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,711	108	61-120

Surrogate	%REC	Limits
o-Terphenyl	119	68-120

Type: BSD Cleanup Method: EPA 3630C
 Lab ID: QC596994

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,449	98	61-120	10	20

Surrogate	%REC	Limits
o-Terphenyl	112	68-120

RPD= Relative Percent Difference

Purgeable Organics by GC/MS

Lab #: 228818	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-6	Batch#: 176046
Lab ID: 228818-001	Sampled: 06/16/11
Matrix: Water	Received: 06/17/11
Units: ug/L	Analyzed: 06/21/11
Diln Fac: 1.000	

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Purgeable Organics by GC/MS

Lab #: 228818	Location: 6501 Shattuck Ave., Oakland
Client: SOMA Environmental Engineering Inc.	Prep: EPA 5030B
Project#: 5032	Analysis: EPA 8260B
Field ID: B-6	Batch#: 176046
Lab ID: 228818-001	Sampled: 06/16/11
Matrix: Water	Received: 06/17/11
Units: ug/L	Analyzed: 06/21/11
Diln Fac: 1.000	

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-127
1,2-Dichloroethane-d4	93	73-145
Toluene-d8	96	80-120
Bromofluorobenzene	91	80-120

ND= Not Detected
 RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	176046
Units:	ug/L	Analyzed:	06/21/11
Diln Fac:	1.000		

Type: BS Lab ID: QC597142

Analyte	Spiked	Result	%REC	Limits
1,1-Dichloroethene	12.50	10.33	83	64-133
Benzene	12.50	12.69	102	80-122
Trichloroethene	12.50	12.74	102	78-120
Toluene	12.50	13.30	106	80-120
Chlorobenzene	12.50	13.36	107	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-127
1,2-Dichloroethane-d4	86	73-145
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-120

Type: BSD Lab ID: QC597143

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
1,1-Dichloroethene	12.50	9.855	79	64-133	5	20
Benzene	12.50	13.04	104	80-122	3	20
Trichloroethene	12.50	12.97	104	78-120	2	20
Toluene	12.50	13.63	109	80-120	2	20
Chlorobenzene	12.50	13.40	107	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	86	80-127
1,2-Dichloroethane-d4	88	73-145
Toluene-d8	99	80-120
Bromofluorobenzene	95	80-120

RPD= Relative Percent Difference

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC597146	Batch#:	176046
Matrix:	Water	Analyzed:	06/21/11
Units:	ug/L		

Analyte	Result	RL
Freon 12	ND	1.0
Chloromethane	ND	1.0
Vinyl Chloride	ND	0.5
Bromomethane	ND	1.0
Chloroethane	ND	1.0
Trichlorofluoromethane	ND	1.0
Acetone	ND	10
Freon 113	ND	2.0
1,1-Dichloroethene	ND	0.5
Methylene Chloride	ND	10
Carbon Disulfide	ND	0.5
MTBE	ND	0.5
trans-1,2-Dichloroethene	ND	0.5
Vinyl Acetate	ND	10
1,1-Dichloroethane	ND	0.5
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	0.5
2,2-Dichloropropane	ND	0.5
Chloroform	ND	0.5
Bromochloromethane	ND	0.5
1,1,1-Trichloroethane	ND	0.5
1,1-Dichloropropene	ND	0.5
Carbon Tetrachloride	ND	0.5
1,2-Dichloroethane	ND	0.5
Benzene	ND	0.5
Trichloroethene	ND	0.5
1,2-Dichloropropane	ND	0.5
Bromodichloromethane	ND	0.5
Dibromomethane	ND	0.5
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	0.5
Toluene	ND	0.5
trans-1,3-Dichloropropene	ND	0.5
1,1,2-Trichloroethane	ND	0.5
2-Hexanone	ND	10
1,3-Dichloropropane	ND	0.5
Tetrachloroethene	ND	0.5

ND= Not Detected

RL= Reporting Limit

Batch QC Report

Purgeable Organics by GC/MS			
Lab #:	228818	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC597146	Batch#:	176046
Matrix:	Water	Analyzed:	06/21/11
Units:	ug/L		

Analyte	Result	RL
Dibromochloromethane	ND	0.5
1,2-Dibromoethane	ND	0.5
Chlorobenzene	ND	0.5
1,1,1,2-Tetrachloroethane	ND	0.5
Ethylbenzene	ND	0.5
m,p-Xylenes	ND	0.5
o-Xylene	ND	0.5
Styrene	ND	0.5
Bromoform	ND	1.0
Isopropylbenzene	ND	0.5
1,1,2,2-Tetrachloroethane	ND	0.5
1,2,3-Trichloropropane	ND	0.5
Propylbenzene	ND	0.5
Bromobenzene	ND	0.5
1,3,5-Trimethylbenzene	ND	0.5
2-Chlorotoluene	ND	0.5
4-Chlorotoluene	ND	0.5
tert-Butylbenzene	ND	0.5
1,2,4-Trimethylbenzene	ND	0.5
sec-Butylbenzene	ND	0.5
para-Isopropyl Toluene	ND	0.5
1,3-Dichlorobenzene	ND	0.5
1,4-Dichlorobenzene	ND	0.5
n-Butylbenzene	ND	0.5
1,2-Dichlorobenzene	ND	0.5
1,2-Dibromo-3-Chloropropane	ND	2.0
1,2,4-Trichlorobenzene	ND	0.5
Hexachlorobutadiene	ND	2.0
Naphthalene	ND	2.0
1,2,3-Trichlorobenzene	ND	0.5

Surrogate	%REC	Limits
Dibromofluoromethane	91	80-127
1,2-Dichloroethane-d4	90	73-145
Toluene-d8	95	80-120
Bromofluorobenzene	94	80-120

ND= Not Detected

RL= Reporting Limit



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

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

Laboratory Job Number 228958
ANALYTICAL REPORT

SOMA Environmental Engineering Inc. 6620 Owens Dr. Pleasanton, CA 94588	Project : 5032 Location : 6501 Shattuck Ave., Oakland Level : II
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<u>Sample ID</u>	<u>Lab ID</u>
B-7 @ 12	228958-001
B-9 @ 10	228958-002

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

Signature: 
Project Manager

Date: 06/30/2011

NELAP # 01107CA

CASE NARRATIVE

Laboratory number: 228958
Client: SOMA Environmental Engineering Inc.
Project: 5032
Location: 6501 Shattuck Ave., Oakland
Request Date: 06/24/11
Samples Received: 06/13/11

This data package contains sample and QC results for two soil samples, requested for the above referenced project on 06/24/11. The samples were received cold and intact.

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

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):

Matrix spikes QC597824, QC597825 (batch 176211) were not reported because the parent sample required a dilution that would have diluted out the spikes. No other analytical problems were encountered.

CT #228958

Subject: Re: Expiring Hold Samples Please analyze ASAP

From: Tracy Babjar <tracy.babjar@ctberk.com>

Date: Fri, 24 Jun 2011 08:36:44 -0700

To: Elena Manzo <emanzo@somaenv.com>, John Goyette <Goyette@ctberk.com>

Hi Elena,

I will have to charge rush sur charge for the extraction of the TEH which will be 50% and 100% for the TVH.

Is that ok? We are slammed over here.

Tracy

Tracy Babjar
Project Manager
Curtis & Tompkins, Ltd.
510 204-2226
www.curtisandtompkins.com

On 6/23/2011 6:47 PM, Elena Manzo wrote:

Hi Tracy,

I know it's a short notice, but at 6501 Shattuck Ave (228688) we have two hold samples I would like to process, the hold expires tomorrow. Once again I am sorry about the short notice, I just finally had the chance to look at it. The samples B-9 @10' and B-7 @12' need to be analyzed for TPH-g and TPH-d only, not the entire list from the COC. I cc-ed John, just in case you are out tomorrow, I don't want them to be missed. Please do not hesitate to call me at (925)734-6400, if you have any questions or concerns.

Sincerely,

Elena K. Manzo
Principal Scientist
SOMA Environmental Engineering, Inc.
925-734-6400 (Phone)
925-734-6401 (Fax)
www.somaenv.com

CHAIN OF CUSTODY

Curtis & Tompkins, Ltd.

Analytical Laboratory Since 1878

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

C&T LOGIN # 228688

Sampler: Erica Fisker

Project No: 5032

Report To: Joyce Bobek

Project Name: 6501 Shattuck Ave., Oakland

Company: SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
21	B-6 @ 20	6-10-11 11:53	*			6 oz jar SILICA				*
22	B-6 @ 21	16:59	X			+				X
23	B-7 B-7	17:45		X		6 vials 2 SILICA	X			X
24	B-7 @ 2	15:17	X			6-11 Silica				X
25	B-7 @ 4	15:20								
26	B-7 @ 6	15:23								
27	B-7 @ 8	15:34								
28	B-7 @ 10	15:38								
29	B-7 @ 12	15:42								
30	B-7 @ 14	15:50								

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260												
		Hold											
		Hold											
X	X												
		Hold											
		Hold											
		Hold											
		Hold											
X	X												
		Hold											
		Hold											

Notes: EDF OUTPUT REQUIRED

Silica-gel clean-up required TPH-d, mo

Special Pricing for Tracy

RELINQUISHED BY:

Erica Fisker 6/10/11 20:09 DATE/TIME

Joe 6/13/11 11:30 DATE/TIME

DATE/TIME

RECEIVED BY:

Joe 6-10-11 20:09 DATE/TIME

Joe 6/13/11 11:30 DATE/TIME

DATE/TIME

CHAIN OF CUSTODY

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

C&T LOGIN # 228688

Project No: 5032
Project Name: 6501 Shattuck Ave., Oakland
Turnaround Time: Standard

Sampler: Erica Fisker
Report To: Joyce Bobek
Company: SOMA Environmental
Telephone: 925-734-6400
Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date Time	Matrix			# of Containers	Preservative			
			Soil	Water	Waste		HCL	H ₂ SO ₄	HNO ₃	ICE
41	B-8 @ 18	6-10-11 13:40	*			6-10 8-oz jar Silica				*
42	B-9	6-10-11 17:30		X		6-10 1 Amber	X			X
43	B-9 @ 3	14:25	X			6-10 Silica				
44	B-9 @ 4	14:30								
45	B-9 @ 6	14:34								
46	B-9 @ 8	14:40								
47	B-9 @ 10	14:40								
48	B-9 @ 12	14:55								
49	B-9 @ 14	14:57								
	B-9 @ 16									

TPH-g, TPH-d, TPH-mo 8015	VOCs (Full List) 8260																		
*	*	hold																	
X	X	hold																	
		hold																	
		hold																	
		hold																	
X	X	hold																	
		hold																	
		hold																	
		hold																	

Notes: EDF OUTPUT REQUIRED
 Silica-gel clean-up required *PH-d, mo*

RELINQUISHED BY:
Erica Fisker 6-10-11 20:01 DATE/TIME
Jen 6/13/10 11:30 DATE/TIME

RECEIVED BY:
Jen 6/10/11 20:01 DATE/TIME
Jen 6/13/11 11:30 DATE/TIME

Special Pricing per Tracy

COOLER RECEIPT CHECKLIST



Curtis & Tompkins, Ltd.

Login # 228683 Date Received 6/13/11 Number of coolers 1
Client SOMA Project 6501 Shattuck Ave, Oakland

Date Opened 6/13/11 By (print) Vidya Qarshi (sign) [Signature]
Date Logged in 6/14/11 By (print) R. Pams (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

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 samples in the appropriate containers for indicated tests? YES NO

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

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

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

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

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

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

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

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

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

If YES, Who was called? By Tracy Date: 6/14/11

COMMENTS
Sediment found at bottom of containers.

Total Volatile Hydrocarbons			
Lab #:	228958	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	176170
Units:	mg/Kg	Sampled:	06/10/11
Basis:	as received	Received:	06/13/11
Diln Fac:	1.000		

Field ID: B-7 @ 12 Lab ID: 228958-001
 Type: SAMPLE Analyzed: 06/24/11

Analyte	Result	RL
Gasoline C7-C12	ND	0.98

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	74-132

Field ID: B-9 @ 10 Lab ID: 228958-002
 Type: SAMPLE Analyzed: 06/24/11

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	74-132

Type: BLANK Analyzed: 06/23/11
 Lab ID: QC597653

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	95	74-132

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

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228958	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC597652	Batch#:	176170
Matrix:	Soil	Analyzed:	06/23/11
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.8539	85	80-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	98	74-132

Batch QC Report

Total Volatile Hydrocarbons			
Lab #:	228958	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	5032	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	228899-001	Batch#:	176170
Matrix:	Soil	Sampled:	06/21/11
Units:	mg/Kg	Received:	06/22/11
Basis:	as received	Analyzed:	06/23/11

Type: MS Lab ID: QC597654

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.05481	10.20	8.188	80	43-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	74-132

Type: MSD Lab ID: QC597655

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	9.615	8.194	85	43-120	6	34

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	74-132

RPD= Relative Percent Difference

Total Extractable Hydrocarbons			
Lab #:	228958	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	176211
Units:	mg/Kg	Sampled:	06/10/11
Basis:	as received	Received:	06/13/11
Diln Fac:	1.000	Prepared:	06/24/11

Field ID: B-7 @ 12 Analyzed: 06/27/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 228958-001

Analyte	Result	RL
Diesel C10-C24	1.6 Y	1.0
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	79	62-120

Field ID: B-9 @ 10 Analyzed: 06/27/11
 Type: SAMPLE Cleanup Method: EPA 3630C
 Lab ID: 228958-002

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	72	62-120

Type: BLANK Analyzed: 06/26/11
 Lab ID: QC597822 Cleanup Method: EPA 3630C

Analyte	Result	RL
Diesel C10-C24	ND	0.99
Motor Oil C24-C36	ND	5.0

Surrogate	%REC	Limits
o-Terphenyl	108	62-120

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

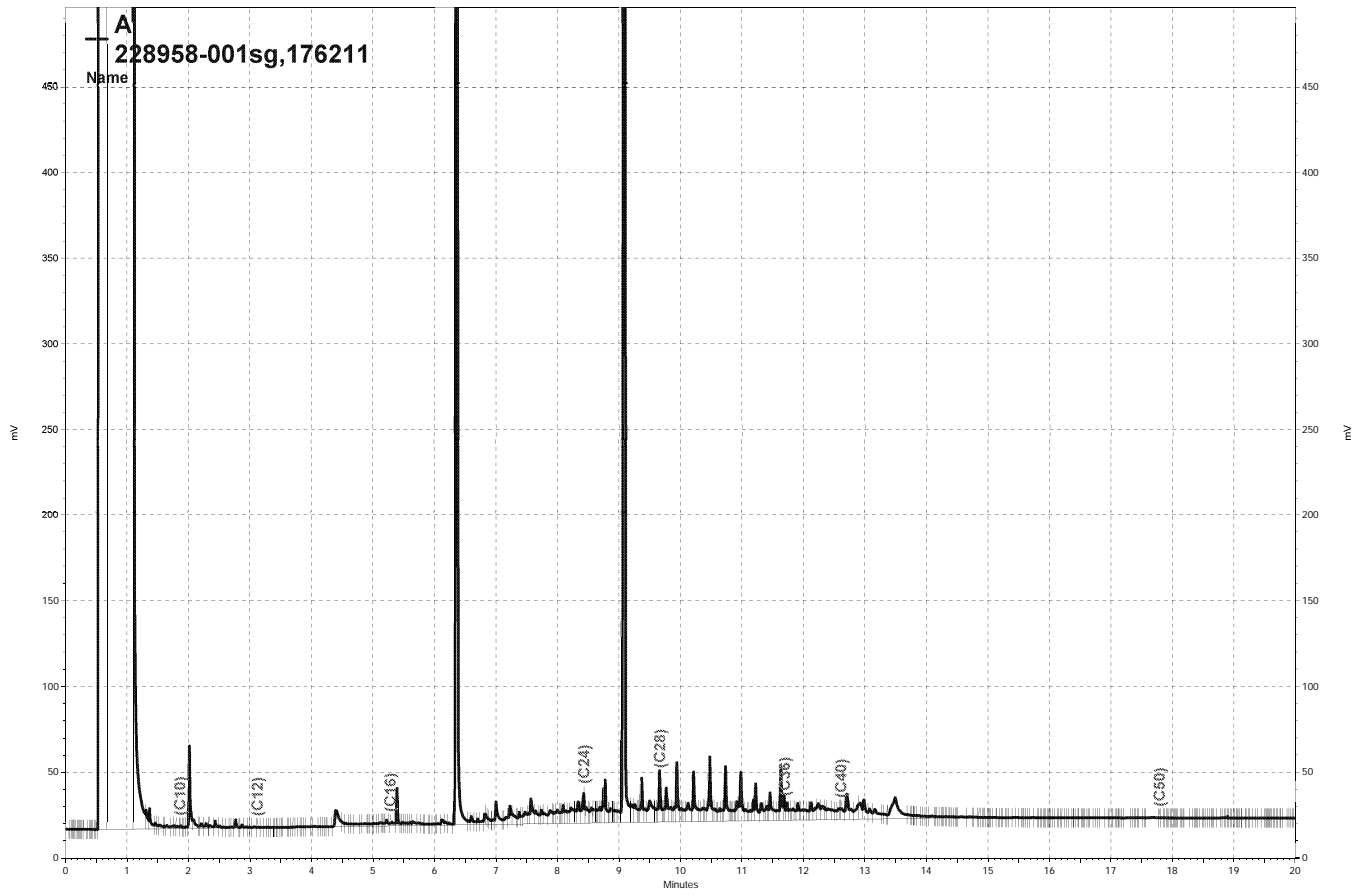
Batch QC Report

Total Extractable Hydrocarbons			
Lab #:	228958	Location:	6501 Shattuck Ave., Oakland
Client:	SOMA Environmental Engineering Inc.	Prep:	SHAKER TABLE
Project#:	5032	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC597823	Batch#:	176211
Matrix:	Soil	Prepared:	06/24/11
Units:	mg/Kg	Analyzed:	06/27/11

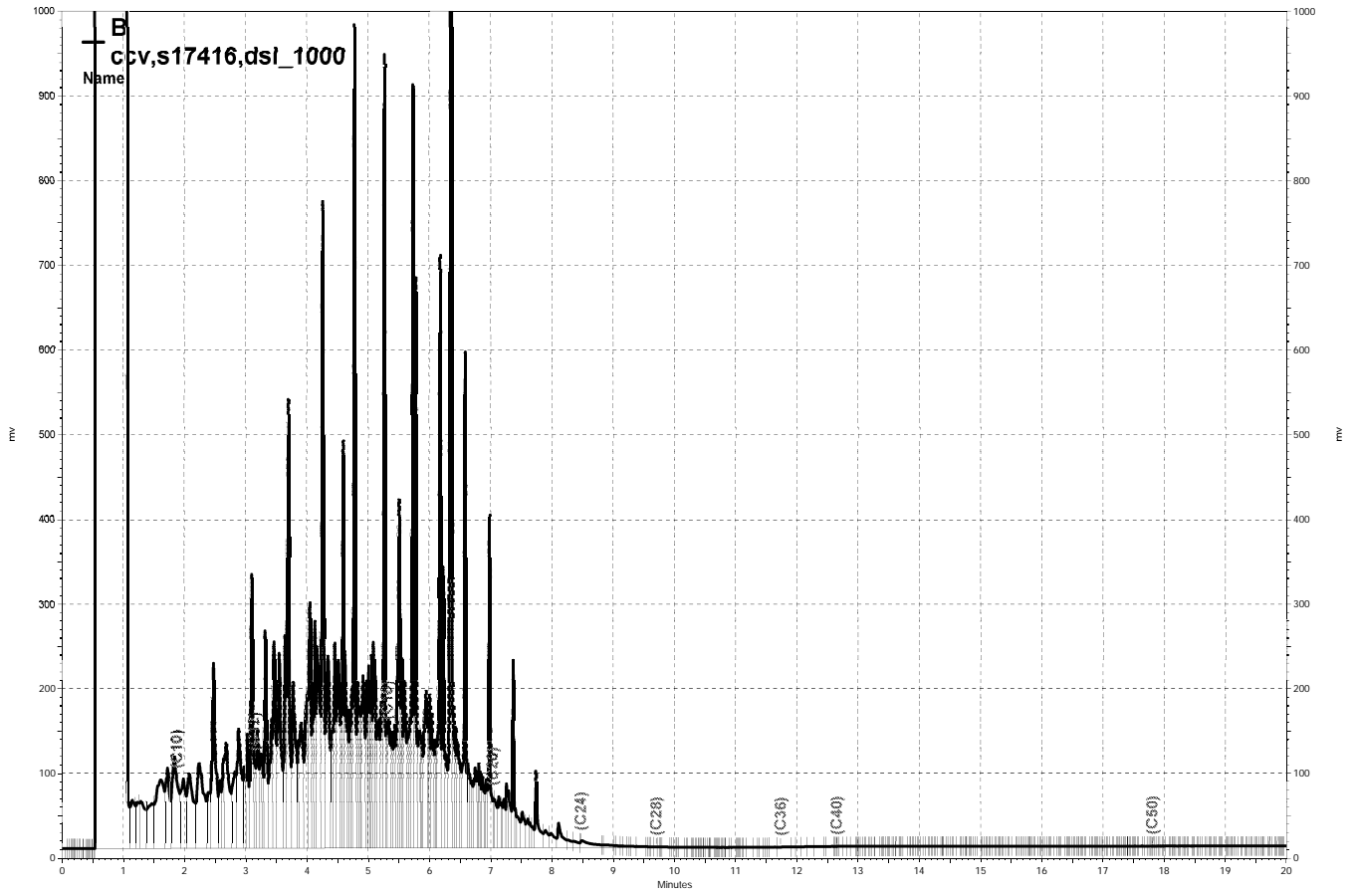
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.86	51.02	102	54-138

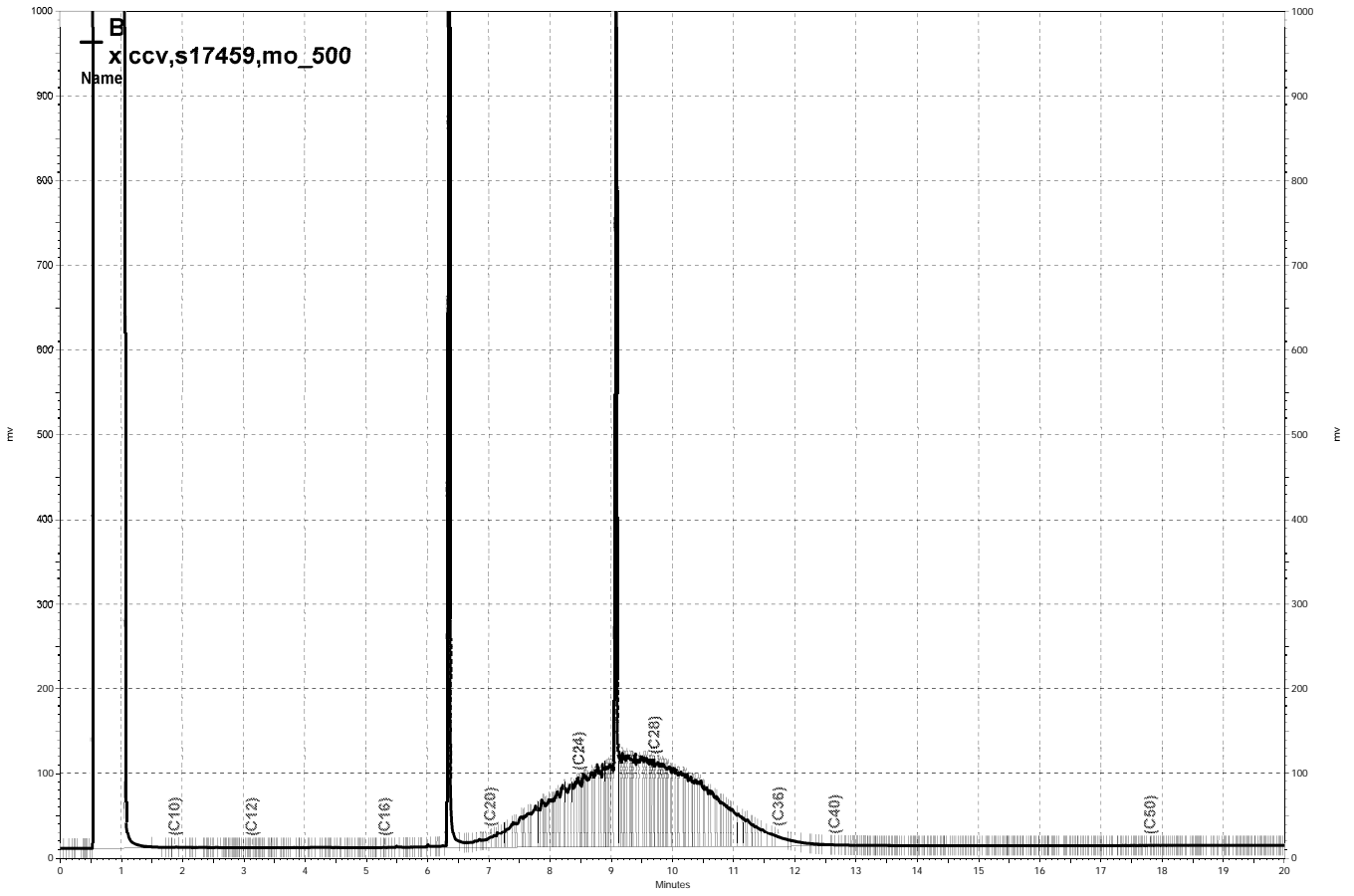
Surrogate	%REC	Limits
o-Terphenyl	115	62-120



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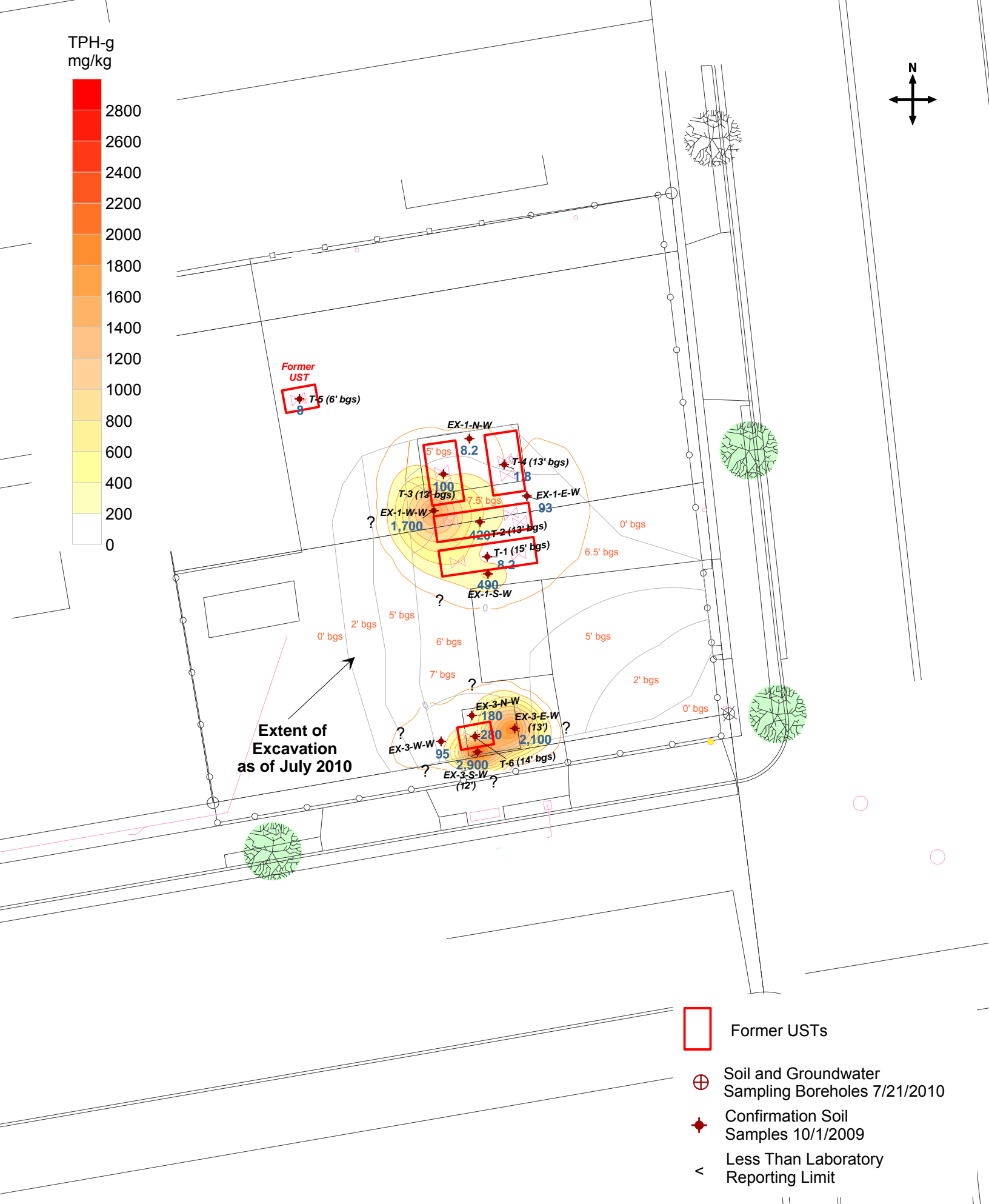
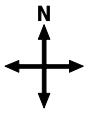
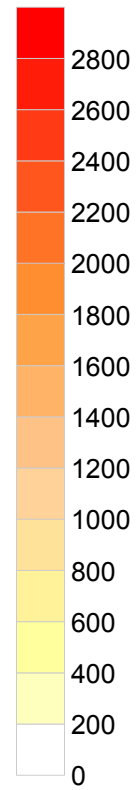


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APPENDIX D

HISTORICAL CONTOUR FIGURES

TPH-g
mg/kg



Extent of
Excavation
as of July 2010

- Former USTs
- Soil and Groundwater Sampling Boreholes 7/21/2010
- Confirmation Soil Samples 10/1/2009
- < Less Than Laboratory Reporting Limit

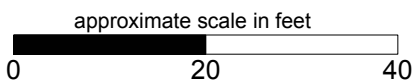
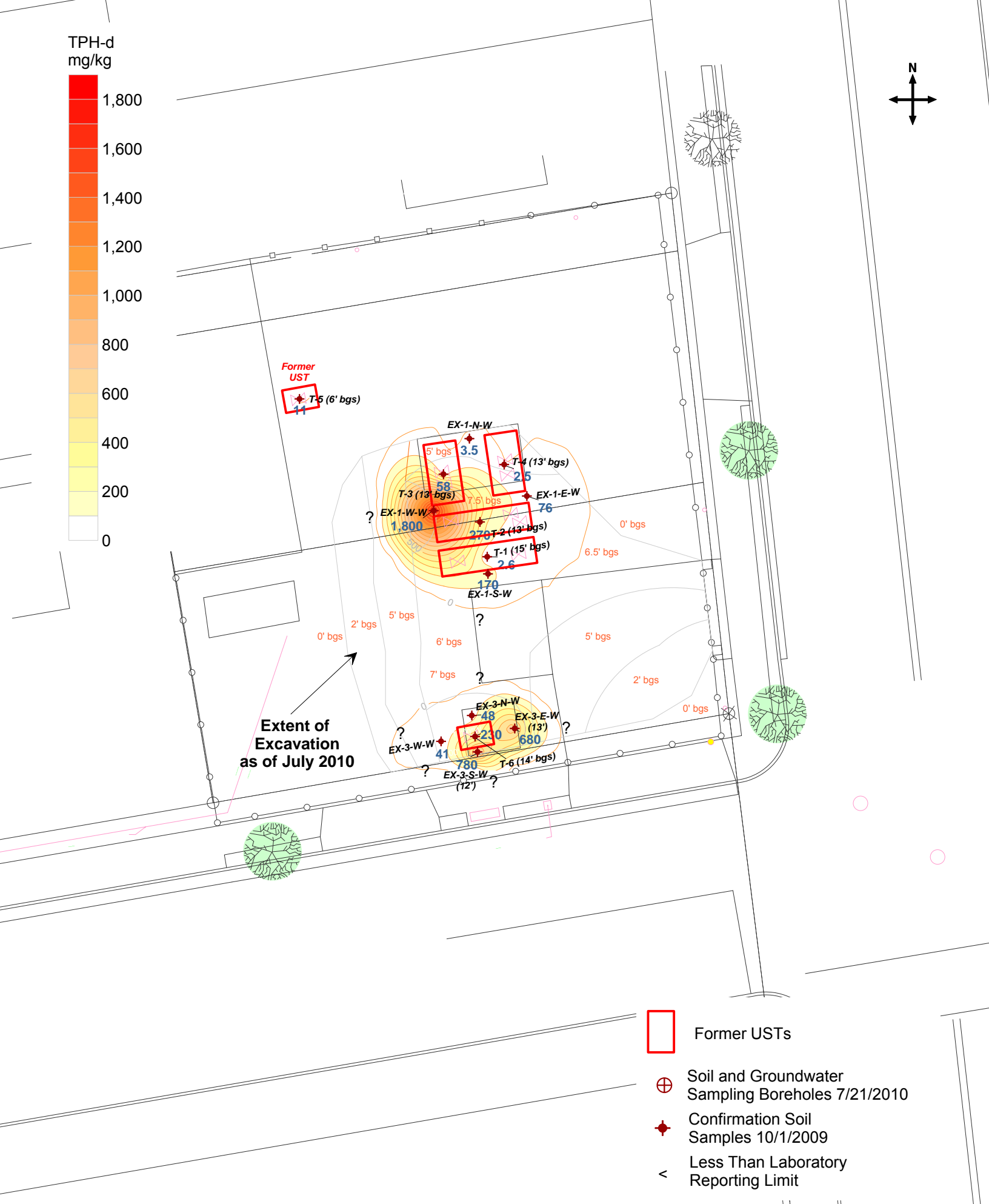
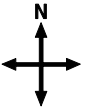
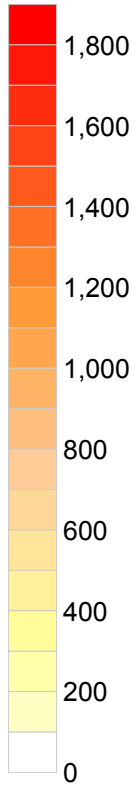






Figure 1: TPH-g Concentrations in Soil During Confirmation Soil Sampling During UST Removal (12 to 14 feet bgs)

TPH-d
mg/kg



Extent of
Excavation
as of July 2010

-  Former USTs
-  Soil and Groundwater Sampling Boreholes 7/21/2010
-  Confirmation Soil Samples 10/1/2009
-  Less Than Laboratory Reporting Limit

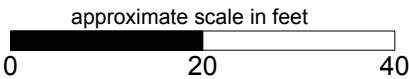
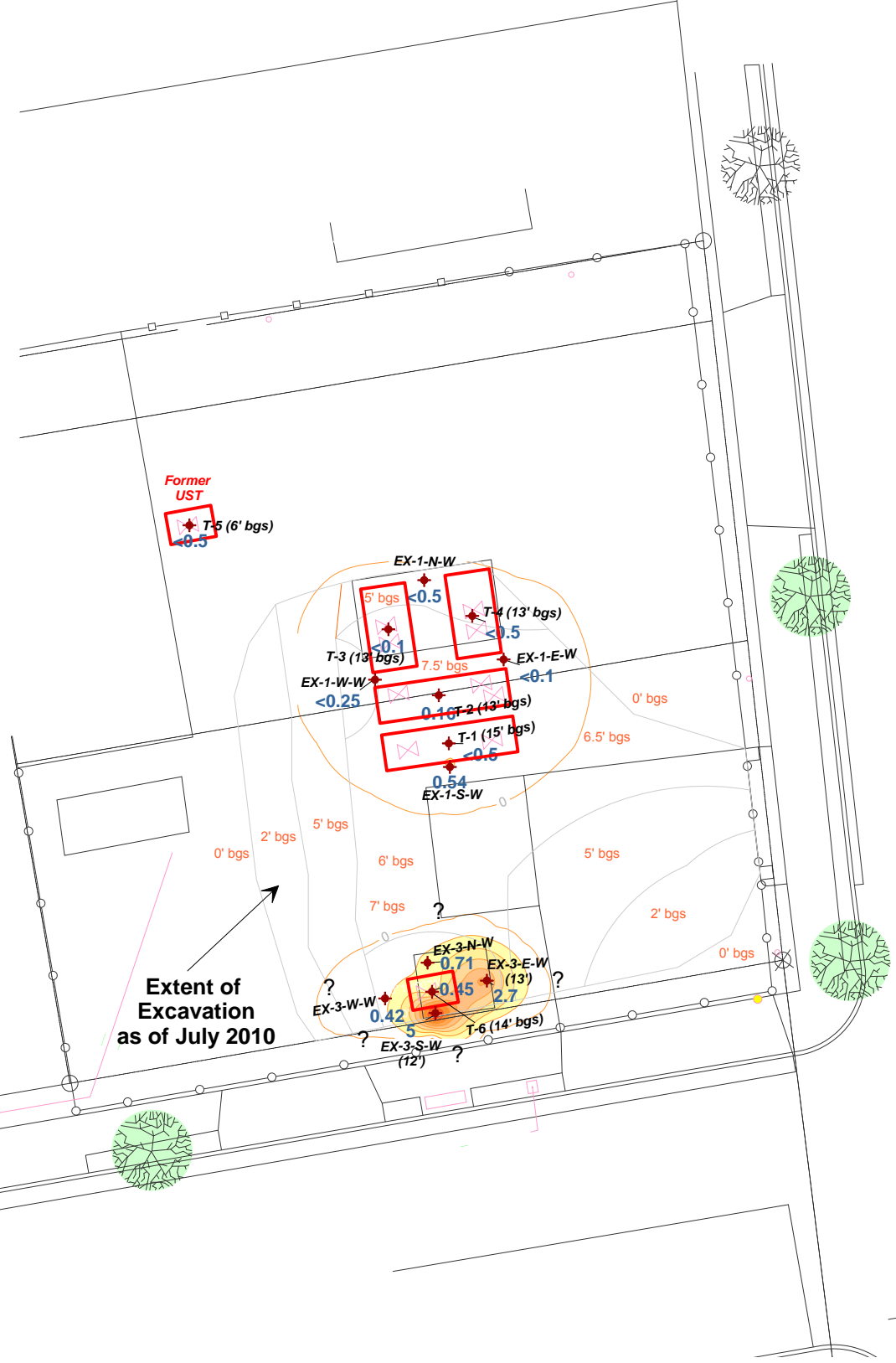
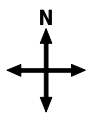
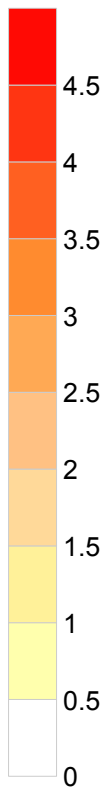


Figure 2: TPH-d Concentrations in Soil During Confirmation Soil Sampling During UST Removal (12 to 14 feet bgs)

Benzene
mg/kg



- Former USTs
- Soil and Groundwater Sampling Boreholes 7/21/2010
- Confirmation Soil Samples 10/1/2009
- < Less Than Laboratory Reporting Limit

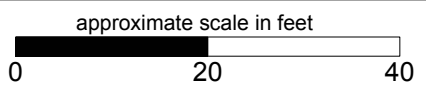
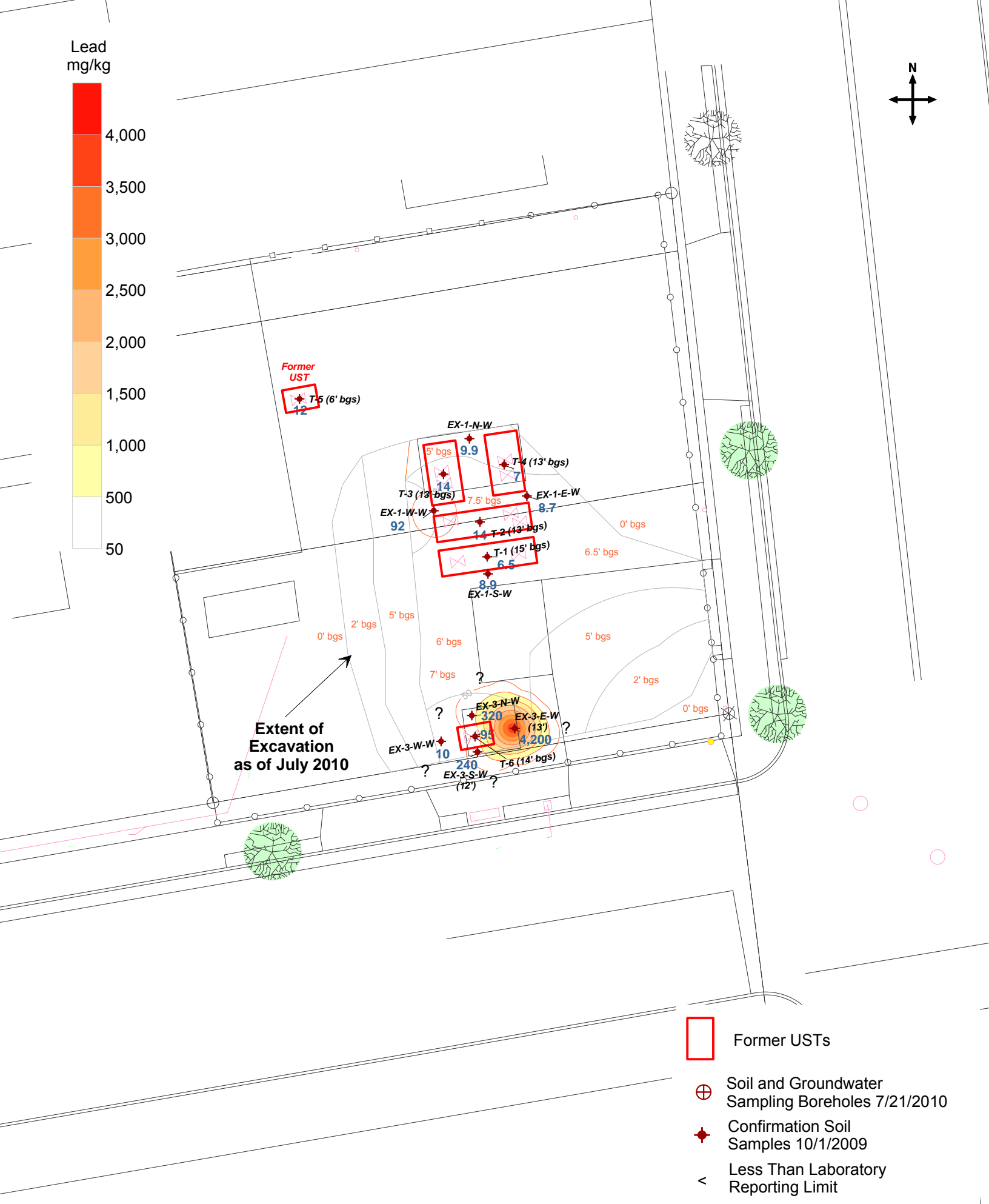
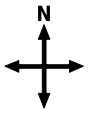
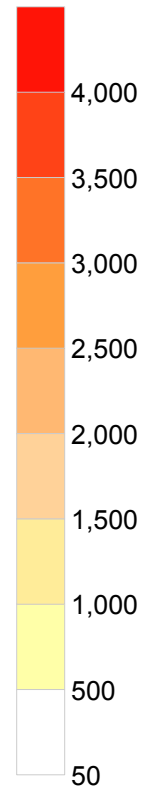


Figure 3: Benzene Concentrations in Soil During Confirmation Soil Sampling During UST Removal (12 to 14 feet bgs)



Lead
mg/kg



Extent of
Excavation
as of July 2010

- Former USTs
- Soil and Groundwater Sampling Boreholes 7/21/2010
- Confirmation Soil Samples 10/1/2009
- Less Than Laboratory Reporting Limit

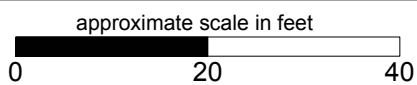


Figure 4: Lead Concentrations in Soil During Confirmation Soil Sampling During UST Removal (12 to 14 feet bgs)

