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

September 27, 2010

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

Subject: **Fuel Leak Case #RO0000346**
Site Address: 3519 Castro Valley Boulevard, Castro Valley, CA

Dear Mr. Khatri:

SOMA's "Well Reconstruction and Shallow Well Installation" report for the subject property has been uploaded to the State's GeoTracker database and Alameda County's FTP site for your review.

Thank you for your time in reviewing our report. If you have any questions or comments, please call me at (925) 734-6400.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosure

cc: Mr. Azim Shakoori w/enclosure
Mr. Matt Herrick w/Broadbent & Associates, Inc. w/enclosure

Well Reconstruction and Shallow Well Installation

3519 Castro Valley Boulevard
Castro Valley, California

Project 2762

September 27, 2010

Prepared for:
Mr. Mirazim Shakoori
4313 Mansfield Drive
Danville, California

SOMA ENVIRONMENTAL ENGINEERING, INC.
6620 Owens Drive Suite A Pleasanton CA 94588 Ph: 925.734.6400 F: 925.734-6401 www.somaenv.com

PERJURY STATEMENT

Site Location: 3519 Castro Valley Boulevard, Castro Valley, CA

"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".

Mirazim Shakoori
4313 Mansfield Drive
Danville, California 94506
Responsible Party

CERTIFICATION

SOMA Environmental Engineering, Inc. has prepared this report on behalf Mr. Mirazim Shakoori, property owner at 3519 Castro Valley Boulevard, Castro Valley, California, in accordance with SOMA's workplan dated March 2, 2010. This document was prepared in response to a request made by Alameda County Environmental Health Services, Environmental Protection Division in July 1, 2010 correspondence approving the above-referenced workplan.

Mansour Sepehr, PhD, PE
Principal Hydrogeologist

TABLE OF CONTENTS

LIST OF FIGURES

LIST OF TABLES

LIST OF APPENDICES

1. INTRODUCTION

SOMA Environmental Engineering, Inc. (SOMA) has prepared this report on behalf of Mr. Mirazim Shakoori, property owner of the Service Station at 3519 Castro Valley Boulevard, Castro Valley, California, in accordance with SOMA's workplan dated March 2, 2010. This document responds to a request by Alameda County Environmental Health Services (ACEHS), Environmental Protection Division, made in July 1, 2010 correspondence approving the above-referenced workplan.

1.1 Site Location and Description

The site is located on the corner of Redwood Road and Castro Valley Boulevard (Figure 1). Prior to 1989, the site was a Mobil gasoline service station. In 1989, British Petroleum (BP) purchased and operated the station until ownership was transferred to Mr. Shakoori in 1993. The station was operated under the Chevron brand until recently, and now operates as a Shell gasoline service station.

Site features, including former and current underground storage tanks (USTs) and the former dispenser island, are shown in Figure 2. Site history, including previous remediation activities, is summarized in Appendix A.

1.2 Regional Geology and Hydrogeology

The site is located in the Coast Range Geomorphic Province, on the eastern side of San Francisco Bay, approximately 1 mile west of the Hayward Fault. The U.S. Geologic Survey (USGS) mapped the site as weakly consolidated, slightly weathered, poorly sorted, irregular interbedded clay, silt, sand, and gravel. In addition, in developed urban areas such as the Bay Area, earthwork construction often involves emplacement of artificial fill derived from nearby cuts or quarries; quite often, artificial fill is emplaced over native earth materials to provide level building pads and base rock for roadways.

Per ACEHS correspondence in 1994, the site is located in the Castro Valley Basin, an isolated structural basin surrounded on the west, north, and east by folded and faulted uplands comprised of Cretaceous sandstone, shale, and conglomerates of marine origin. The valley is bounded on the west by active traces of the Hayward fault. Sediments collected in the valley are mostly of fluvial origin and relatively thin (<100 feet thick). Based on overall structure and topography of the basin in which Castro Valley is located, heterogeneity of sediments (sands, silts, and clays), depth at which groundwater is first encountered and where it eventually stabilizes, and past evidence at this and nearby sites, it is reasonable to conclude that groundwater may be present under confined or semi-confined conditions in the vicinity of the site.

According to California's Groundwater Bulletin 118, the principal water bearing formation of the Castro Valley Groundwater Basin is alluvium of Pleistocene age, which unconformably overlies consolidated non–water-bearing rock of Jurassic age and underlies a thin surficial deposit of alluvium of Holocene age. The Pleistocene alluvium is a heterogeneous mixture of unconsolidated clay, silt, sand, and gravel with a maximum thickness of 80 feet. Per Bulletin 118, groundwater is unconfined and yields are limited, usually sufficient only for lawn irrigation. Per USGS (W-RIR 02-4259, 2003), this alluvium is part of the Newark aquifer that is present in the East Bay Flatlands to a depth of 30 to 130 feet below ground surface (bgs). Water in the Newark aquifer is generally confined except near recharge areas along the mountain front.

The uplands north, east, and west of the valley likely represent areas of groundwater recharge from rain infiltration to aquifers present in the valley. The major drainage through the valley is San Lorenzo Creek located approximately 0.75 mile east of the site.

1.3 Evaluation of Appropriateness of Well Screening Intervals

In January 8, 2009 correspondence, ACEHS questioned the appropriateness of screening intervals for several monitoring wells located at the site. Specifically, the correspondence pointed out that some screening intervals may be excessively long and that static groundwater was above the screened intervals, therefore, concentrations of contaminants in these wells might not be representative of actual site conditions. In the March 2009 Site Conceptual Model (SCM) report, a data gap was identified during evaluation of well screening intervals regarding whether the screened water-bearing zone (WBZ) at the site is confined, semi-confined or unconfined. If the WBZ is semi-confined to confined, then some wells are screened through the petroleum hydrocarbon (PHC) impacted confining unit, which may be introducing contaminants to the groundwater; if unconfined, then contaminant concentrations may be diluted within wells with excessively long screening intervals.

During the August 2009 investigation, SOMA installed shallow groundwater monitoring well SOMA-5 within the vadose zone to a depth of 15 feet bgs. The well was placed within 5 feet of ESE-1 on the east side of the station building and screened from 5 to 15 feet bgs, through the potentiometric surface. No groundwater was encountered during well placement, but two weeks later SOMA field personnel measured depth to water for the newly installed well at 10.48 feet bgs, suggesting either seepage flow from the Confined to Semi-Confined WBZ or a possible Shallow WBZ.

Based on groundwater investigation results conducted in August 2009, groundwater under the site appears to be semi-confined. Based on information presented in the cross-sections (Figures 4 through 6) the semi-confining unit at the site is laterally continuous. The presence of groundwater at shallow depth

bgs, above the Semi-Confined WBZ, suggests that there is a Shallow WBZ with a low recharge rate. Therefore, it is likely that wells with long screened intervals were completed within the Shallow WBZ and the Semi-Confined WBZ. As such, some existing wells are most likely causing cross contamination between the Shallow and Semi-Confined WBZs.

Based on this conclusion documented in the August 2009 report, SOMA recommended replacing existing wells that are screened across the Shallow and Semi-Confined WBZs (ESE-1, ESE-2, ESE-5, MW-6, and MW-7) with wells screened only within the Semi-Confined WBZ. In their February 10, 2009 correspondence, ACEHS recommended installing well clusters with wells screened in the Shallow WBZ and placed adjacent to wells screened within the Semi-Confined WBZ to evaluate both WBZs.

2. SCOPE OF WORK

SOMA replaced existing groundwater monitoring wells ESE-1, ESE-2, ESE-5, MW-6, and MW-7 with wells screened only within the Semi-Confined WBZ and installed Shallow WBZ monitoring wells placed adjacent to wells screened within the Semi-Confined WBZ. The shallow monitoring wells were screened across the potentiometric surface.

Task 1: Permit acquisition, Health and Safety Plan preparation, and subsurface utility clearance

Task 2: Well installation and development

Task 3: Soil and groundwater sample collection and laboratory analysis

Task 4: Report preparation

2.1 Task 1: Permit Acquisition, Health and Safety Plan, Subsurface Utility Clearance

Prior to initiating field activities, SOMA obtained drilling permits from Alameda County Public Works Agency (ACPWA). A written property access agreement was obtained from Ms. Florence Fang, property owner of Fremont Credit Union, to allow reconstruction of well MW-7 and installation of well SOMA-9 on the property at 3549 Castro Valley Boulevard (Appendix B). ACEHS was given the required minimum 72-hour notice in advance of drilling on August 7, 2010 and ACPWA was contacted on August 2, 2010 to schedule the grouting inspection with Vicky Hamlin.

Before field activities began, a site-specific Health and Safety Plan (HASP) was prepared by SOMA. The HASP is a requirement of the federal 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 August 2, 2010, 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 August 2, 2010 (Ticket 225474). A private utility locator (Cruz Brothers Locators) surveyed proposed drilling areas on August 2, 2010 to locate any additional subsurface conduits.

2.2 Well Reconstruction and Shallow Well Installation

2.2.1 Well Reconstruction

SOMA retained RSI Drilling to complete well reconstruction to replace ESE-1, ESE-2, ESE-5, MW-6 and MW-7 with wells screened entirely within the Semi-Confined WBZ (Figure 2). Field activities took place from August 9 through August 12, 2010 and also on August 16, 2010. RSI concrete cored the concrete around ESE-1 and ESE-2 to remove the existing well boxes.

Based on the ACEHS request made in July 1, 2010 correspondence, the wells were over-drilled initially with 8-inch augers. Over-drilling utilized a hollow stem drilling auger (HSA) and all casing and annular materials were removed. To avoid cross-contamination, 10-inch augers were then utilized to over drill the borehole and install new well casing. Based on subsurface lithology (Figures 4 through 6), SOMA recommended that ESE-1, ESE-2, and MW-6, originally advanced to 30 feet bgs, be backfilled so that the total well depth is 25 feet bgs for ESE-1R and 28 feet bgs for ESE-2R and MW-6R. ESE-5R and MW-7R were reinstalled to the original total depth. After all annular and casing material was removed, the wells were reinstalled with 2-inch-diameter PVC casings and 0.02-inch-wide by 1.5-inch-long factory-slotted perforations; the upper portion of each well consisted of blank PVC. Based on previous investigations, the length of perforated interval of each well was screened within the Semi-Confined WBZ based on the approved workplan and shown in the table below.

Well ID	Previous TD (feet)	Previous Screen Interval (feet)	Current Depth (feet)	Final Screen Interval (feet)	Final Annular Seal (feet)
ESE-1R	30	10 to 30	25	18 to 25	0 to 16
ESE-2R	30	10 to 30	28	22 to 28	0 to 20
ESE-5R	24	9 to 24	24	18 to 24	0 to 16
MW-6R	30	18 to 30	28	22 to 28	0 to 20
MW-7R	30	18 to 30	30	24 to 30	0 to 22

A No. 3 Monterey sand pack filter was deemed appropriate sand pack based on observed lithology, and was emplaced around the screens then surged to consolidate the filter packs and eliminate voids. The filter packs were emplaced to a height of at least 1 foot above the top of the screens; MW-6R and MW-7R had sand pack to 2 feet above the top of the screens. The filter packs were sealed with at least a 1-foot-thick hydrated bentonite plug followed by an annular grout seal of neat cement. A PVC caps were fitted to the bottom casings, without adhesives or tape, to protect the monitoring wells from accidental damage or tampering; traffic rated utility box with internal steel protective covers and locking caps were placed over the monitoring wellheads, and set in concrete flush with existing grade. Boring logs illustrating construction details are cataloged in Appendix C.

2.2.2 Shallow Well Installation

SOMA proposed installing four additional groundwater monitoring wells (SOMA-6 through SOMA-9) adjacent to the reconstructed wells (within 5 feet) and completed within the Shallow WBZ as approved in the workplan and detailed in the table below. Borings for proposed SOMA-6 and SOMA-9 were left open (secured as discussed below) to allow water accumulation, until August 16, 2010, at which time they were still dry and the boreholes were never constructed into wells but appropriately grouted instead. To eliminate confusion, proposed well borings SOMA-6 and SOMA-9 were renamed SB-6 and SB-9, respectively.

Well ID	Adjacent to Well	Current Depth (feet)	Final Screen Interval (feet)	Final Annular Seal (feet)
SOMA-7	ESE-5	15	5 to 15	0 to 3
SOMA-8	MW-6	15	5 to 15	0 to 3

SOMA retained RSI Drilling to install the new wells. RSI concrete-cored the borings for SB-6 (SOMA-6) and SB-9 (SOMA-9). Field activities took place from

August 9 through August 12, 2010 and on August 16, 2010. To clear all underground utilities, wells were hand augured to 5 feet bgs. Using HSA drilling technology, well boreholes were continuously cored to 14 or 15 feet bgs; SOMA's field geologist logged the continuous soil core and characterized content of each soil-filled tube using the Visual-Manual method of the Unified Soil Classification System. In addition, cored soil was checked for attributes characteristic of smear zone, including hydrocarbon odors, visual staining, liquid phase hydrocarbons (free product), and screened using a photo-ionizing detector (PID). PID readings were noted on boring logs. Soil samples were collected at intervals of elevated PID readings, staining, or odor. Absent elevated PID readings or obvious signs of contamination, two soil samples were collected from each shallow well borehole. Both ends of each sampling tube were secured using Teflon tape, labeled with unique identifiers, immediately placed in a chilled ice chest, and delivered to a California state-certified laboratory for analysis.

No water was observed in any shallow borehole during drilling; therefore, the borings were covered with trench plates and left open overnight (with permission from ACPWA). On August 10, 2010, groundwater was observed in SOMA-7 and SOMA-8 and those two wells were installed. SB-6 (SOMA-6) and SB-9 (SOMA-9) were checked daily for groundwater and were decommissioned on August 16, 2010 by tremie grouting with neat cement and finished to grade with either cement or asphalt, per ACPWA regulations and ACEHS approval.

SOMA-7 and SOMA-8 were installed with 2-inch-diameter PVC casings and 0.02-inch-wide by 1.5-inch-long factory-slotted perforations; the upper portion of each well consisted of blank PVC. A No. 3 Monterey sand pack filter was deemed appropriate sand pack based on the observed lithology, and was emplaced around the screens and surged to consolidate filter packs and eliminate voids. Filter packs were emplaced to a height of at least 1 foot above the top of the screens and sealed with at least a 1-foot-thick hydrated bentonite plug followed by an annular grout seal of neat cement. PVC caps were fitted to the bottom casings, without adhesives or tape, to protect monitoring wells from accidental damage or tampering; a traffic-rated utility box with internal steel protective covers and locking caps was installed over the monitoring wellheads, and set in concrete flush with existing grade. Boring logs are included in Appendix C. Photographs of installation activities are included in Appendix D.

2.2.3 Well Survey, Waste Disposal, and Development

On August 30, 2010 Edgis Land Surveying and Mapping, certified licensed land surveyor (License 6772), surveyed reconstructed and newly installed wells. Latitude and longitude coordinates were surveyed to Zone III NAD 83 datum, and the elevation to NAVD 88 datum from GPS observations. Survey data are included in Appendix E, and were uploaded to the State Water Resources Control Board Geotracker database.

On August 16 and 17, 2010, under SOMA's observation, RSI developed reconstructed and newly installed wells. Since ESE-5R, SOMA-7 and SOMA-8 were recharging too slow for purging with a pump, a steel bailer was used to remove sediment-laden water from the well until the sediment load had substantially decreased. Approximately 13.6 to 95.5 gallons of water were bailed from the wells until groundwater quality parameters, measured by SOMA, had stabilized. Well development logs summarizing observed groundwater parameters are included in Appendix C.

On August 27, 2010, fourteen 55-gallon drums of non-hazardous liquid (purge water, including one drum from previous monitoring events) and eighteen 55-gallon drums of non-hazardous solid (soil cuttings) waste were transported from the site to a licensed disposal facility (waste manifest contained in Appendix E).

2.2.4 Well Sampling

After well development was complete, the wells were allowed to settle for a minimum of 72 hours. On August 30, 2010, SOMA sampled groundwater from the reconstructed and newly installed wells. ESE-1R, ESE-2R, MW-6R, and MW-7R appear to be under pressure and groundwater rose in the wells after the well cap was removed. No pressure was observed upon opening ESE-5R, and water did not rise in the well. The lack of pressure in ESE-5R, as well as the lack of rise in DP-4 and DP-6 in 2009, suggests that the aquifer is semi-confined. Groundwater in SOMA-7 and SOMA-8 (and historically in SOMA-2, SOMA-3, and SOMA-5) does not appear to be under pressure and did not rise in the borings after well caps were removed, suggesting that the Shallow WBZ is not confined. Pre-sampling depth to water was taken in all wells; field data sheets are included in Appendix C. No sheen or color associated with groundwater was observed; however, PHC odor was noted in ESE-1R, ESE-5R, and SOMA-7. Samples were collected using disposable bailers. They were decanted into 40-mL amber VOAs with HCl preservative bottles and 1-L unpreserved amber bottles, labeled with unique identifiers, and placed in an ice-chilled cooler pending transport to Curtis & Tompkins Laboratories.

2.3 Soil and Groundwater Sampling Evaluation

2.3.1 Site Geology and Hydrogeology

As shown in cross sections A-A', B-B', and B-A' (Figures 4, 5, and 6; locations Figure 3), the site is underlaid with interbedded silty clay, sandy silt/silty sand, clayey sand, and clayey silt. As shown in these cross-sections, an unconsolidated sequence of permeable and relatively impermeable sediments underlies the site. As borehole logs for TWB-1 through TWB-5 and SOMA-4 demonstrate, these unconsolidated sequences continue off-site to the south, with no obvious changes in lithology.

During historical soil and groundwater investigations, groundwater was observed in the Semi-Confined WBZ, but only in SOMA-2 and SOMA-3 within the Shallow WBZ; all other borings in this zone had to be left open overnight for groundwater to accumulate. Groundwater was not encountered in the shallow borings at the time of drilling. SB-6 (SOMA-6) and SB-9 (SOMA-9) were left open for 7 days but no water accumulated in the boreholes, suggesting that the Shallow WBZ is discontinuous. An 18 to 22 foot thick bed of silty clay and clayey silt overlies the Semi-Confined WBZ. This WBZ is composed of silty sand, sand, and clayey sand with a thickness of 2 to 15 feet. As seen in B-5 and ESE-4, this Semi-Confined WBZ narrows under the center of the site to an approximately 2-foot thickness. If viewed south from ESE-5, along TWB-5 and SOMA-4, the WBZ thickens to 10 to 15 feet, possibly due to fossilized stream channels (which can occur in fluvial depositional environments). Preferential flow (stream) channels have also been observed south (downgradient) of the Xtra Oil station across Redwood Road. The Semi-Confined WBZ appears to be continuous and extends off-site to the southeast. Below the Semi-Confined WBZ is a fairly homogenous silty clay unit that extends to 30 feet bgs, the greatest depths explored on-site during historical investigations.

Depth to first-encountered groundwater at the site has historically been at 12 feet bgs in the Shallow WBZ (when encountered) and between 18 and 31 feet bgs in the Semi-Confined WBZ, with groundwater later stabilizing to between 8.39 and 10.6 feet bgs (Shallow WBZ) and 6.5 and 11.50 feet bgs (Semi-Confined WBZ, except in DP-4 and DP-6, which only stabilized to 28 feet bgs and 19.79 feet bgs, respectively). Stable groundwater in the monitoring wells has historically been observed from 7.63 to 12.02 in the Shallow WBZ and from 2.36 to 12.02 feet bgs in the Semi-Confined WBZ. During the Second Semi-Annual 2010 groundwater monitoring event and post investigation sampling, groundwater in the Perched WBZ was observed to flow southeasterly across the site at an approximate gradient of 0.010 feet/feet. Groundwater in the Semi-Confined WBZ was observed to flow south-southwesterly across the site at an approximate gradient of 0.014 feet/feet. Figures 7 and 8 show the groundwater elevation contours in the Shallow and Semi-Confined WBZs. The Rose diagrams in Figure 2 demonstrate historical groundwater flow directions at the site and vicinity.

2.3.2 Soil and Groundwater Sample Analysis

Groundwater and soil samples were submitted to a California state-certified environmental laboratory for analysis of the following:

- Total PHCs as gasoline (TPH-g), diesel (TPH-d), and motor oil (TPH-mo)
- Benzene, toluene, ethyl benzene and total xylenes (BTEX); methyl tertiary-butyl ether (MtBE)
- Volatile organic compounds (VOCs) and fuel oxygenates, additives and lead scavengers including tertiary-butyl alcohol (TBA), ethyl tertiary-butyl

ether (ETBE), diisopropyl ether (DIPE), tertiary-amyl methyl ether (TAME), 1,2-dichloroethane (1,2-DCA), 1,2-dibromoethane (EDB), and ethanol.

All analysis was conducted using USEPA Method 8260B, except for TPH-d and TPH-mo, which utilized USEPA Method 8015.

2.3.3 Lateral and Vertical Extent of Soil Contamination

Based on recent investigations by Delta Environmental (September 2008) and SOMA (August 2009 and 2010), residual soil impact (TPH-g) exists between 9 and 12 feet bgs (Figure 9) in the vicinity of SOMA-7 (980 mg/kg) and SB-2 (230 mg/kg) along the southwestern property boundary. Residual concentration was also observed along the eastern portion of the site, in the vicinity of the former USTs. TPH-g concentrations ranged from 39 mg/kg at DP-5 to 720 mg/kg in B-3. During the recent investigations, concentrations were 380 mg/kg at SOMA-5 and 13 mg/kg at SB-6 (SOMA-6). Boring locations are shown in Figure 2. Isolated pockets of residual contamination were also observed at 15 to 17 feet bgs (Figure 10), but only concentrations in B-1 (120 mg/kg) were above (slightly) the California Regional Water Quality Control Board (CRWQCB) Environmental Screening Level (ESL) of 83 mg/kg for shallow or deep soils where groundwater is a current or potential drinking source.

Soil analytical data is presented in Table 1; the soil laboratory analytical report is included in Appendix F.

2.3.4 Lateral and Vertical Extent of Contamination in Groundwater

Based on existing analytical data derived from the recent semi-annual groundwater monitoring event and the current investigation, the Shallow WBZ appears to be impacted with TPH-g and TPH-d along the southern portion of the site, with concentrations of 2,900 µg/L and 2,100 µg/L, respectively in SOMA-7 and TPH-g at 14,000 µg/L in SOMA-5 (in vicinity of the former waste oil tank, TPH-d was not analyzed). TPH-g was also detected in MW-6R, but below the ELS (100 µg/L). The Shallow WBZ is also impacted with MtBE along the southern portion of the site that has migrated off-site along the direction of groundwater flow. MtBE concentrations were highest at SOMA-5 (150 µg/L), with concentrations above ESL (5 µg/L) also observed in SOMA-7 (8.4 µg/L) and SOMA-3 (9.8 µg/L).

The PHC plume in the Semi-Confined WBZ appears to be located along the southern portion of the site, in the vicinity of the former waste oil tank and downgradient of the former USTs. TPH-g was observed above ESL in ESE-1R (2,100 µg/L), ESE-2R (200 µg/L) and SOMA-4 (220 µg/L), suggesting the plume has migrated off-site to the south. TPH-d concentrations were also highest at ESE-1R (1,600 µg/L), with elevated concentrations also observed in ESE-2R (250 µg/L), ESE-5R (190 µg/L), and MW-7R (200 µg/L). TPH-d contamination

appears to be limited to the vicinity of the site. MtBE was observed in the Semi-Confined WBZ along the southern portion of the site and has migrated downgradient to SOMA-4. MtBE concentrations ranged from 5.9 µg/L (SOMA-1) to 24 µg/L (MW-7R).

TPH-g and benzene concentrations dropped significantly in ESE-5R after reconstruction, while concentrations are elevated in SOMA-7, suggesting that the majority of contamination along the western portion of the site is in the Shallow WBZ. MtBE concentrations increased significantly within ESE-5R and MW-7R and increased slightly in ESE-2R after well reconstruction.

Groundwater analytical data is presented in Tables 2, 3 and 4; the groundwater laboratory analytical report is included in Appendix F.

3. CONCLUSIONS AND RECOMMENDATIONS

3.1 Conclusions

Due to their excessively long screening intervals, ESE-1, ESE-2, ESE-5, MW-6 and MW-7 were reconstructed with screening entirely within the Semi-Confined WBZ. To further characterize the Shallow WBZ, SOMA advanced four borings, converting two of those borings into shallow groundwater monitoring wells (SOMA-7 and SOMA-8).

1. Based on analytical data from historical site investigations and ongoing monitoring events, the Shallow and Semi-Confined WBZs both appear to be impacted with TPH-g and TPH-d along the western and southern portions of the site, with the highest concentrations observed in SOMA-5 (TPH-g at 14,000 µg/L) and SOMA-7 (TPH-d at 2,100 µg/L). MtBE concentrations were elevated in all wells except upgradient wells (MW-6R and SOMA-8) with the highest concentrations observed in SOMA-5 (150 µg/L) and MW-7R (24 µg/L).
2. TPH-g and benzene concentrations dropped significantly in ESE-5R after reconstruction, while concentrations are elevated in SOMA-7, suggesting that the majority of contamination along the western portion of the site is in the Shallow WBZ.
3. MtBE concentrations appear to be highest at SOMA-5 and follow the flow of groundwater within the Shallow WBZ. Within the Semi-Confined WBZ, MtBE contamination is centered in MW-7R and along the southern portion of the property and off-site areas. Concentrations increased significantly within ESE-5R and MW-7R and increased slightly in ESE-2R after well reconstruction.
4. Based on the response of groundwater within ESE-1R, ESE-2R, MW-6R, and MW-7R, groundwater in these wells appear to be under pressure, suggesting the WBZ is semi-confined.

5. Soil contamination has been delineated vertically and horizontally, with contamination limited to 9-12 feet bgs along the southern portion of the site.
6. Groundwater contamination has been laterally and vertically delineated within the Shallow and Semi-Confined WBZs. Contamination in both WBZs is centered on the southern portion of the site with only slight contamination extending off-site. Limited concentrations at SOMA-3 and SOMA-4 delineate the lateral downgradient extent of contamination within the Shallow WBZ and Semi-Confined WBZ, respectively. TPH-g, TPH-d, and MtBE contamination appear to be greatest in the Shallow WBZ, centered at SOMA-5. The highest TPH-g and TPH-d concentrations in the Semi-Confined WBZ are centered on ESE-1R and MtBE contamination is greatest in MW-7R.

3.2 Recommendation

SOMA recommends conducting a screening evaluation of possible groundwater remediation alternatives and future pilot testing to address groundwater contamination at the site.

FIGURES

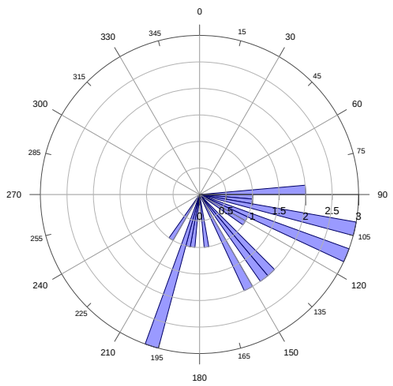
N

approximate scale in feet

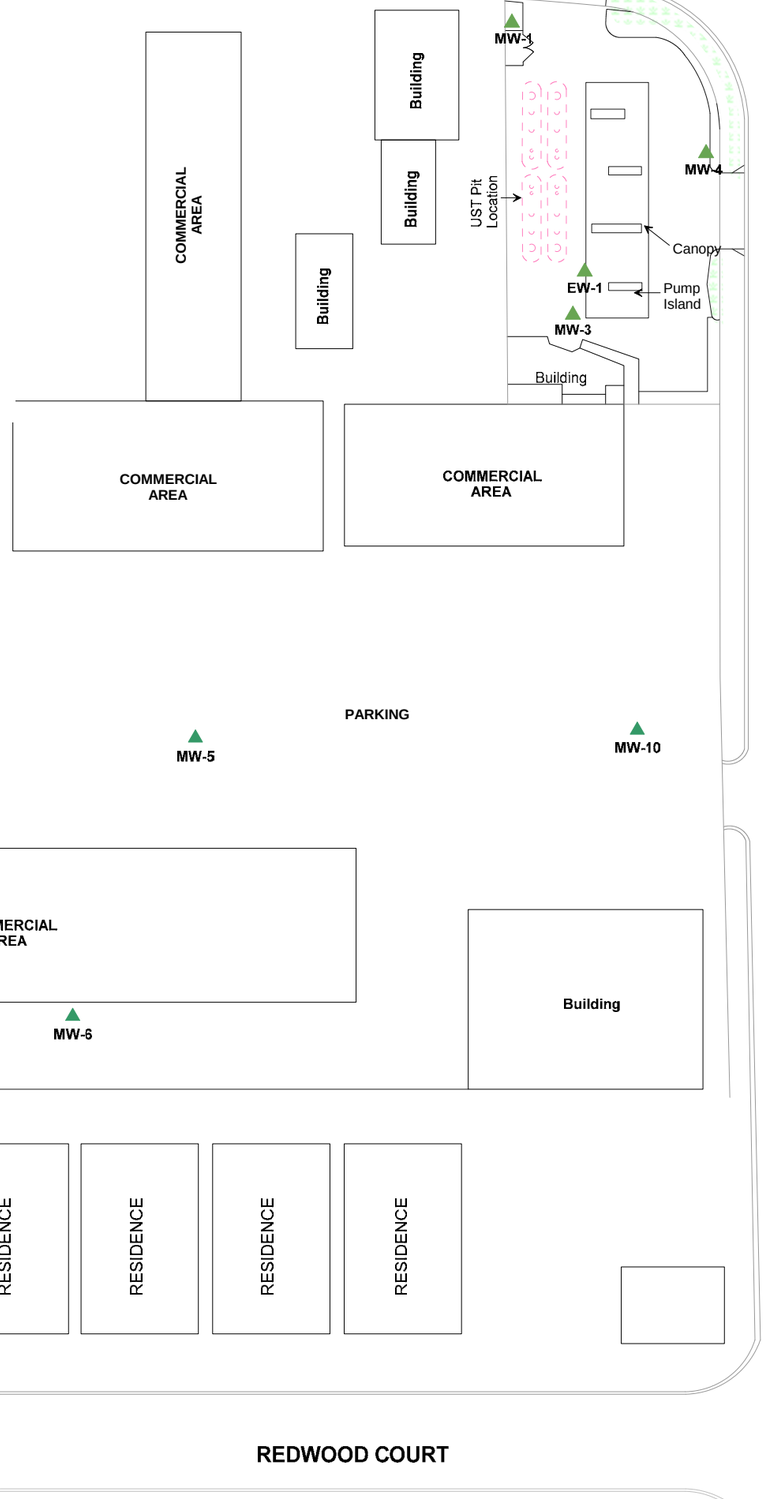
0 60 120

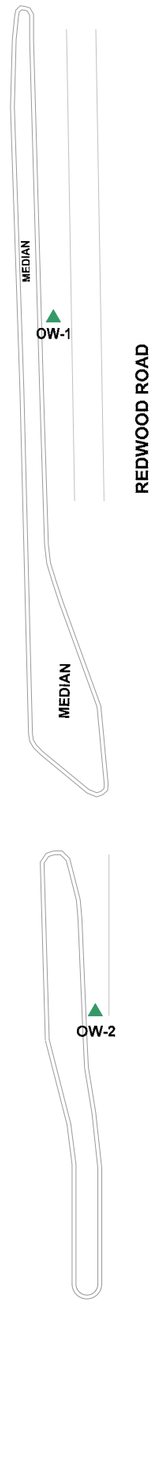
Figure 1: Site vicinity map.

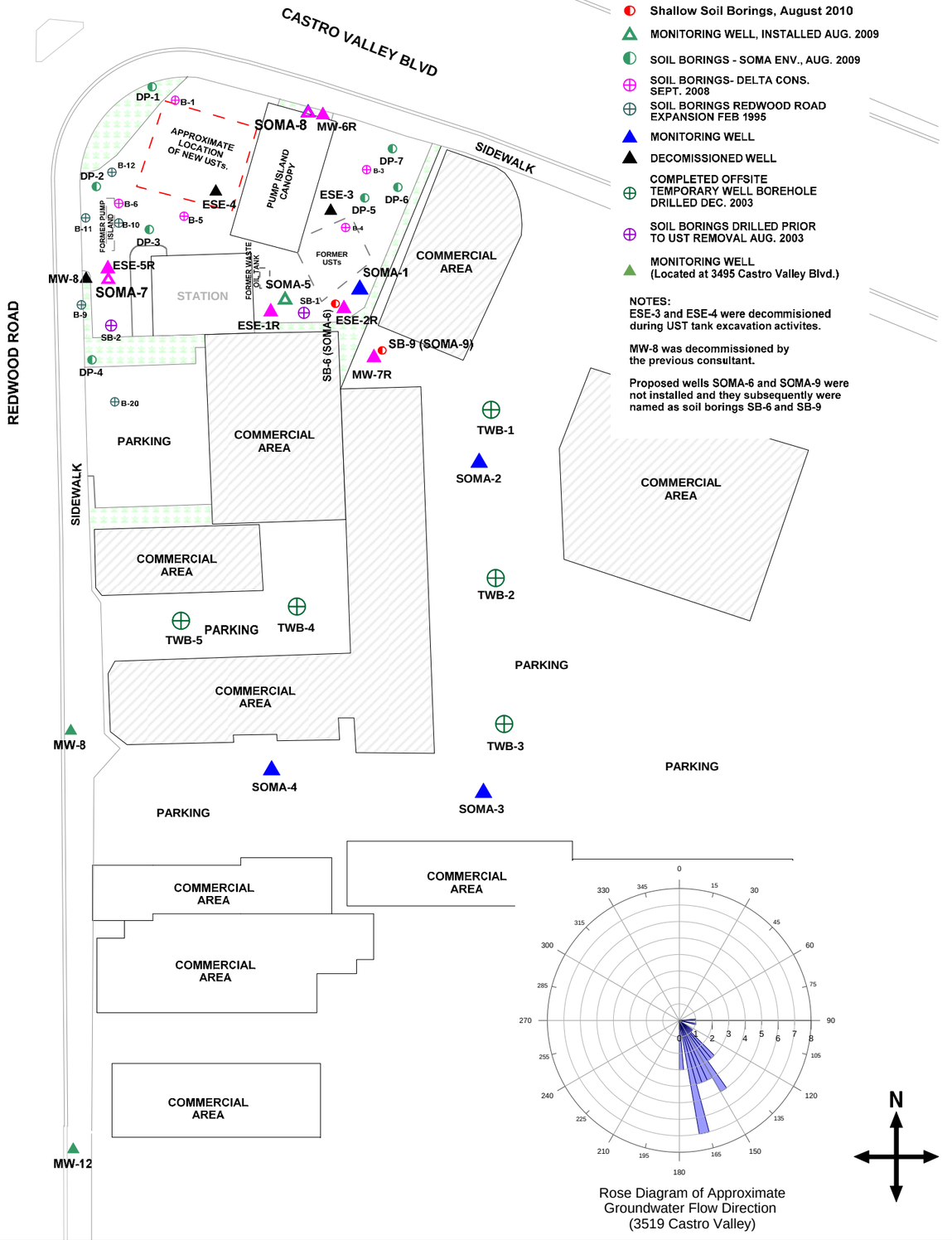
SOMA ENVIRONMENTAL ENGINEERING, INC.



Rose Diagram of Approximate Groundwater Flow Direction (3495 Castro Valley)







- Reconstructed Wells August 2010
- Shallow WBZ Wells, August 2010
- Shallow Soil Borings, August 2010
- MONITORING WELL, INSTALLED AUG. 2009
- SOIL BORINGS - SOMA ENV., AUG. 2009
- SOIL BORINGS- DELTA CONS. SEPT. 2008
- SOIL BORINGS REDWOOD ROAD EXPANSION FEB 1995
- MONITORING WELL
- DECOMMISSIONED WELL
- COMPLETED OFFSITE TEMPORARY WELL BOREHOLE DRILLED DEC. 2003
- SOIL BORINGS DRILLED PRIOR TO UST REMOVAL AUG. 2003
- MONITORING WELL (Located at 3495 Castro Valley Blvd.)

NOTES:
ESE-3 and ESE-4 were decommisioned during UST tank excavation activites.

MW-8 was decommissioned by the previous consultant.

Proposed wells SOMA-6 and SOMA-9 were not installed and they subsequently were named as soil borings SB-6 and SB-9

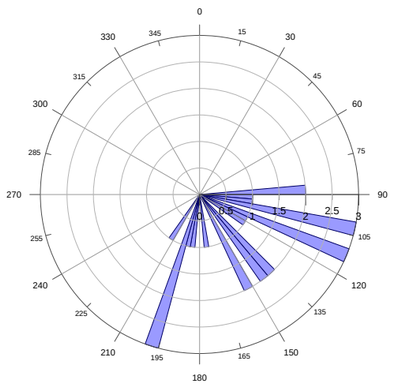
Rose Diagram of Approximate Groundwater Flow Direction (3519 Castro Valley)

N

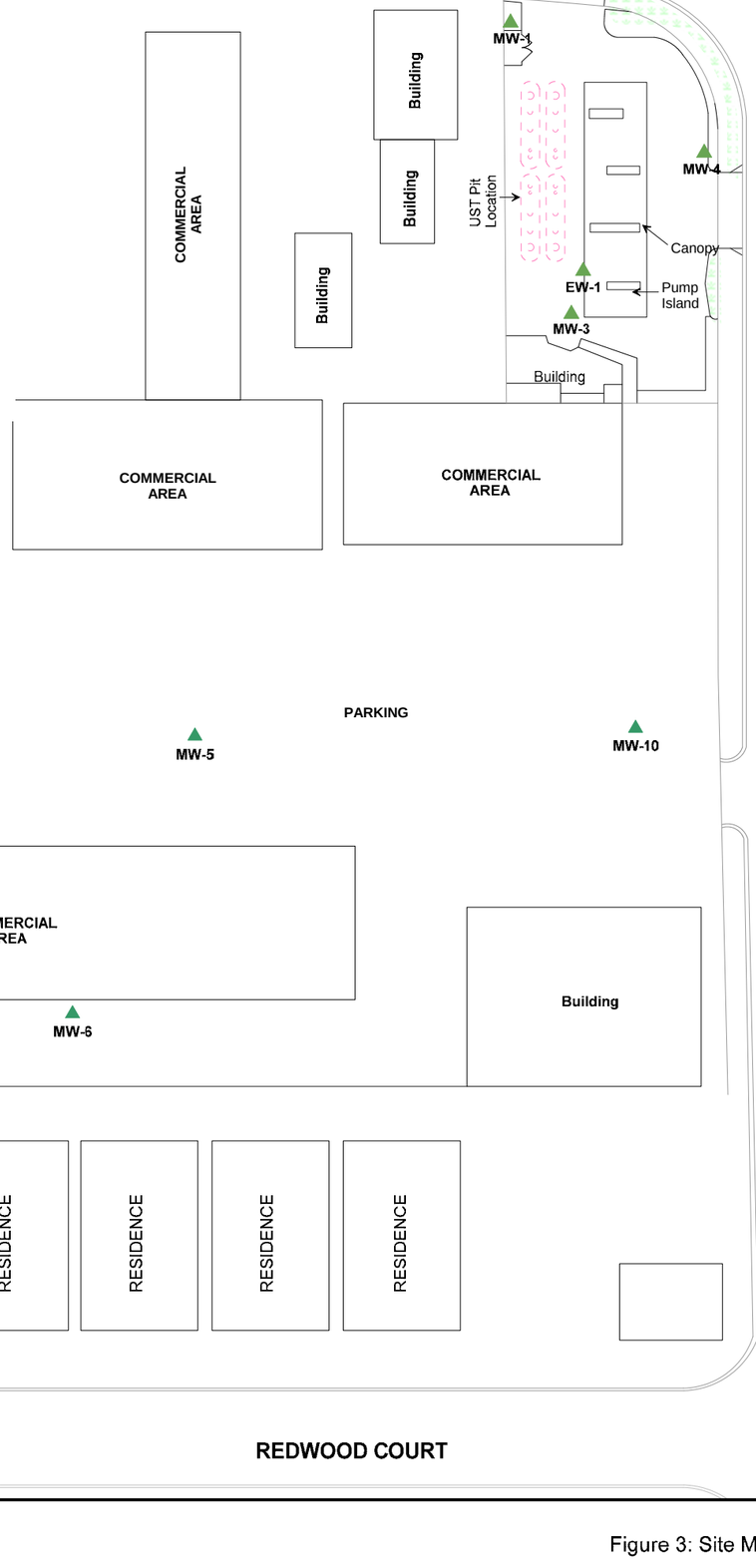
approximate scale in feet
0 60 120

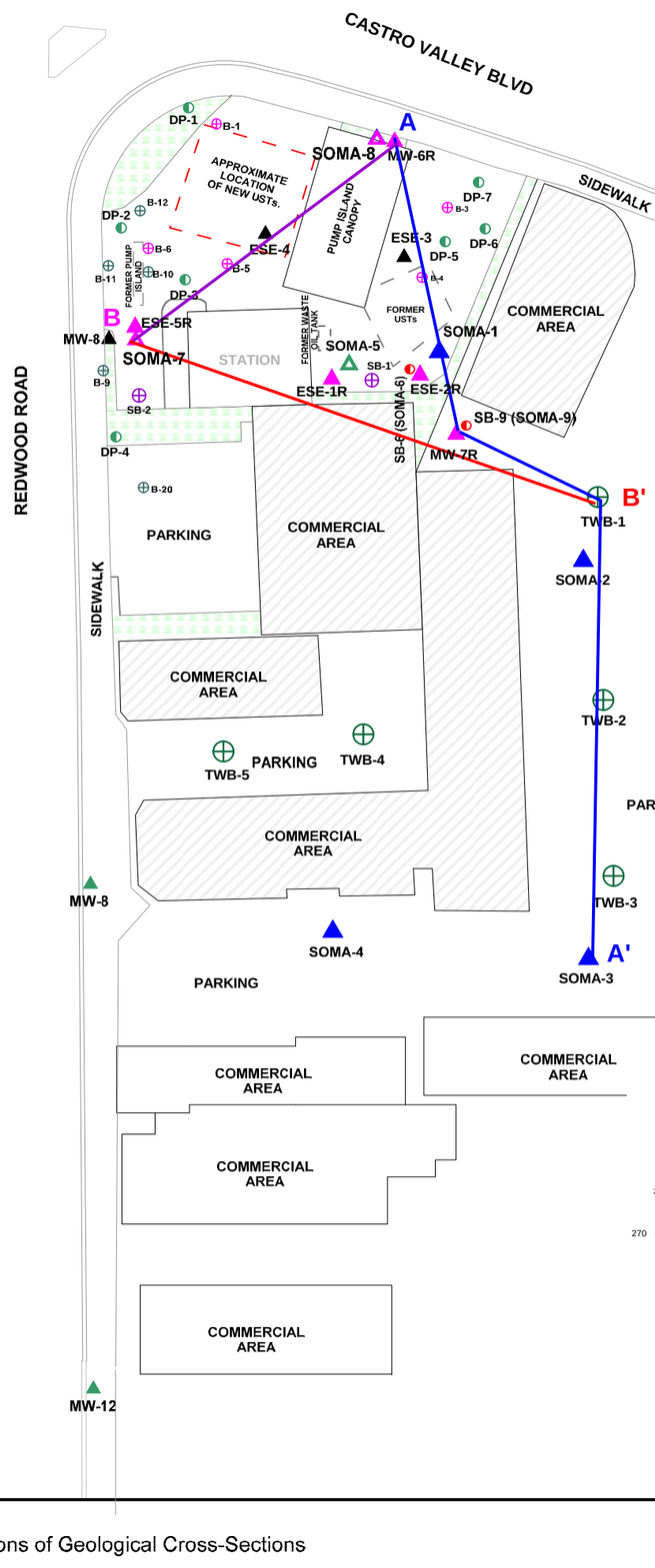
Figure 2: Site map showing locations of existing monitoring wells, decommissioned wells, offsite temporary well boreholes, monitoring wells installed by SOMA, and monitoring wells located at neighboring service station.

SOMA ENVIRONMENTAL ENGINEERING, INC.



Rose Diagram of Approximate Groundwater Flow Direction (3495 Castro Valley)



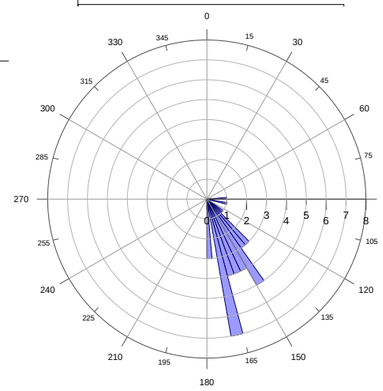


- Reconstructed Wells August 2010
- Shallow WBZ Wells, August 2010
- Shallow Soil Borings, August 2010
- MONITORING WELL, INSTALLED AUG. 2009
- SOIL BORINGS - SOMA ENV., AUG. 2009
- SOIL BORINGS- DELTA CONS. SEPT. 2008
- SOIL BORINGS REDWOOD ROAD EXPANSION FEB 1995
- MONITORING WELL
- DECOMMISSIONED WELL
- COMPLETED OFFSITE TEMPORARY WELL BOREHOLE DRILLED DEC. 2003
- SOIL BORINGS DRILLED PRIOR TO UST REMOVAL AUG. 2003
- MONITORING WELL (Located at 3495 Castro Valley Blvd.)

NOTES:
ESE-3 and ESE-4 were decommisioned during UST tank excavation activites.

MW-8 was decommissioned by the previous consultant.

Proposed wells SOMA-6 and SOMA-9 were not installed and they subsequently were named as soil borings SB-6 and SB-9



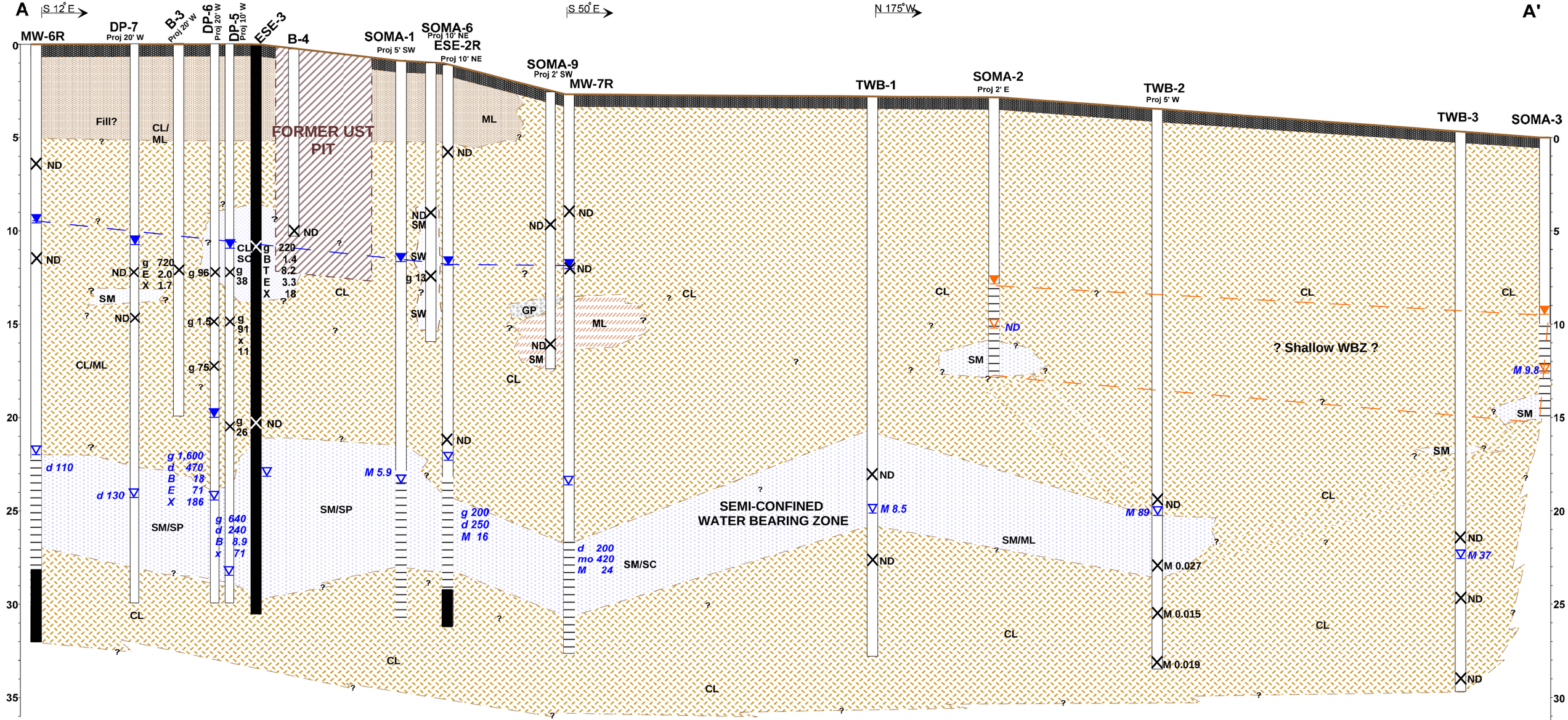
Rose Diagram of Approximate Groundwater Flow Direction (3519 Castro Valley)

N

approximate scale in feet
0 60 120

Figure 3: Site Map Showing Locations of Geological Cross-Sections

SOMA ENVIRONMENTAL ENGINEERING, INC.



5
0 20
approximate scale in feet

100 Soil Sampling Data (mg/kg)
g - TPH-g
d - TPH-d
B - Benzene
T - Toluene
E - Ethyl Benzene
X - Total Xylenes
M - MtBE

ND - below detection limits

100 Groundwater Sampling Data (ug/L)
Samples 7/26/10, TWB Samples 12/2/03

g - TPH-g
d - TPH-d
B - Benzene
T - Toluene
E - Ethyl Benzene
X - Total Xylenes
M - MtBE

ND - below detection limits

Legend

ML Sandy Silt
CL Clay/Silty Clay
SM Silty Sand
SP Sand
SC Clayey Sand

EXPLANATION

- First groundwater observed in Shallow WBZ
- Stabilized Groundwater Observed in Shallow WBZ
- Stabilized Groundwater Level - Shallow WBZ
- First groundwater observed in Semi-Confined WBZ
- Stabilized Groundwater Observed in Semi-Confined WBZ
- Stabilized Groundwater Level - Semi-Confined WBZ
- Screened Interval
- Well Destroyed Dec 2003

Figure 4: Geologic Cross-Section A-A'

SOMA ENVIRONMENTAL ENGINEERING, INC.

B

B'

S 66° E

MW-8 | SOMA-7 ESE-5R Proj 7' S | SOMA-7 SB-2 Proj 15'N | ESE-1R Proj 20' S | SOMA-5 Proj 20' S | SOMA-9 | MW-7R Proj 21' S | TWB-1

PERCHED WBZ?

? Shallow WBZ ?

SEMI-CONFINED WATER BEARING ZONE

SEMI-CONFINED WATER BEARING ZONE

SEMI-CONFINED WATER BEARING ZONE

CL/ML

SM/ML

ML/SM

GP

SP

ML

SM

CL

SM/SC

July 2010 g 14,000 B 3,300 E 1,100 X 1,340 M 150

g 2,900 d 2,100 mo 330 B 190 M 8.4

Aug 2010 g 2,100 d 1,600 mo 560 B 110 X 151 M 15 Th 83

Aug 2010 d 200 mo 420 M 24

M 8.5

0 5 10 15 20 25 30 35

5

0 20

approximate scale in feet

100 Soil Sampling Data (mg/kg)
g - TPH-g
d - TPH-d
B - Benzene
T - Toluene
E - Ethyl Benzene
X - Total Xylenes
M - MtBE

ND - below detection limits

100 Groundwater Sampling Data (ug/L)
Samples7/26/10 and 8/30/10, TWB Samples 12/2/03

g - TPH-g
d - TPH-d
B - Benzene
T - Toluene
E - Ethyl Benzene
X - Total Xylenes
M - MtBE
A - TBA
ND - below detection limits

Legend

ML Sandy Silt
CL Clay/Silty Clay
SM Silty Sand
SP Sand
SC Clayey Sand

EXPLANATION

First groundwater observed in Shallow WBZ
Stabilized Groundwater Observed in Shallow WBZ
Stabilized Groundwater Level - Shallow WBZ
First groundwater observed in Semi-Confined WBZ
Stabilized Groundwater Observed in Semi-Confined WBZ
Stabilized Groundwater Level - Semi-Confined WBZ
Screened Interval
Well Destroyed Dec 2003, Bentonite Plug

Figure 5: Geologic Cross-Section B-B'

SOMA ENVIRONMENTAL ENGINEERING, INC.

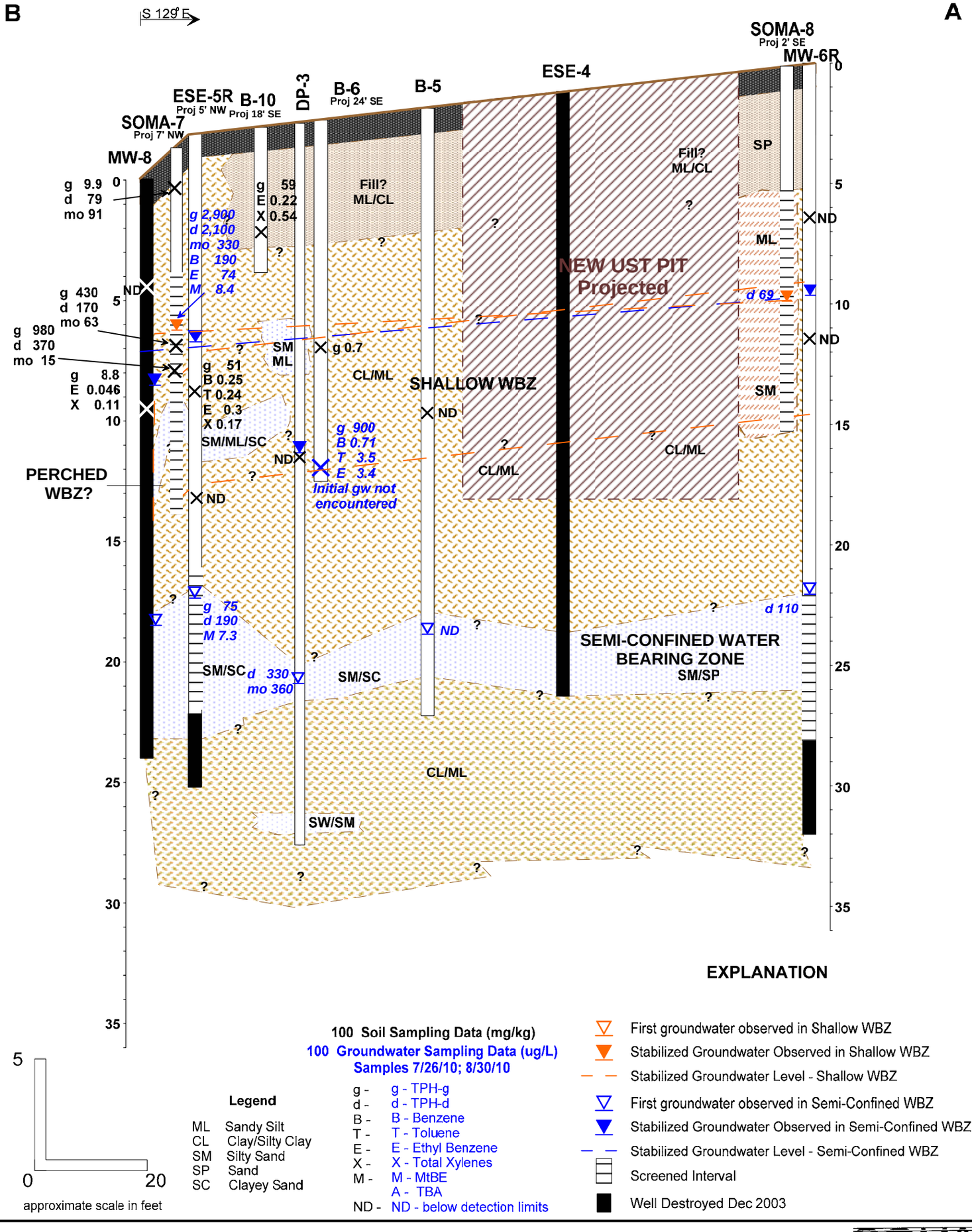


Figure 6: Geologic Cross-Section B-A'

ENVIRONMENTAL ENGINEERING, INC.

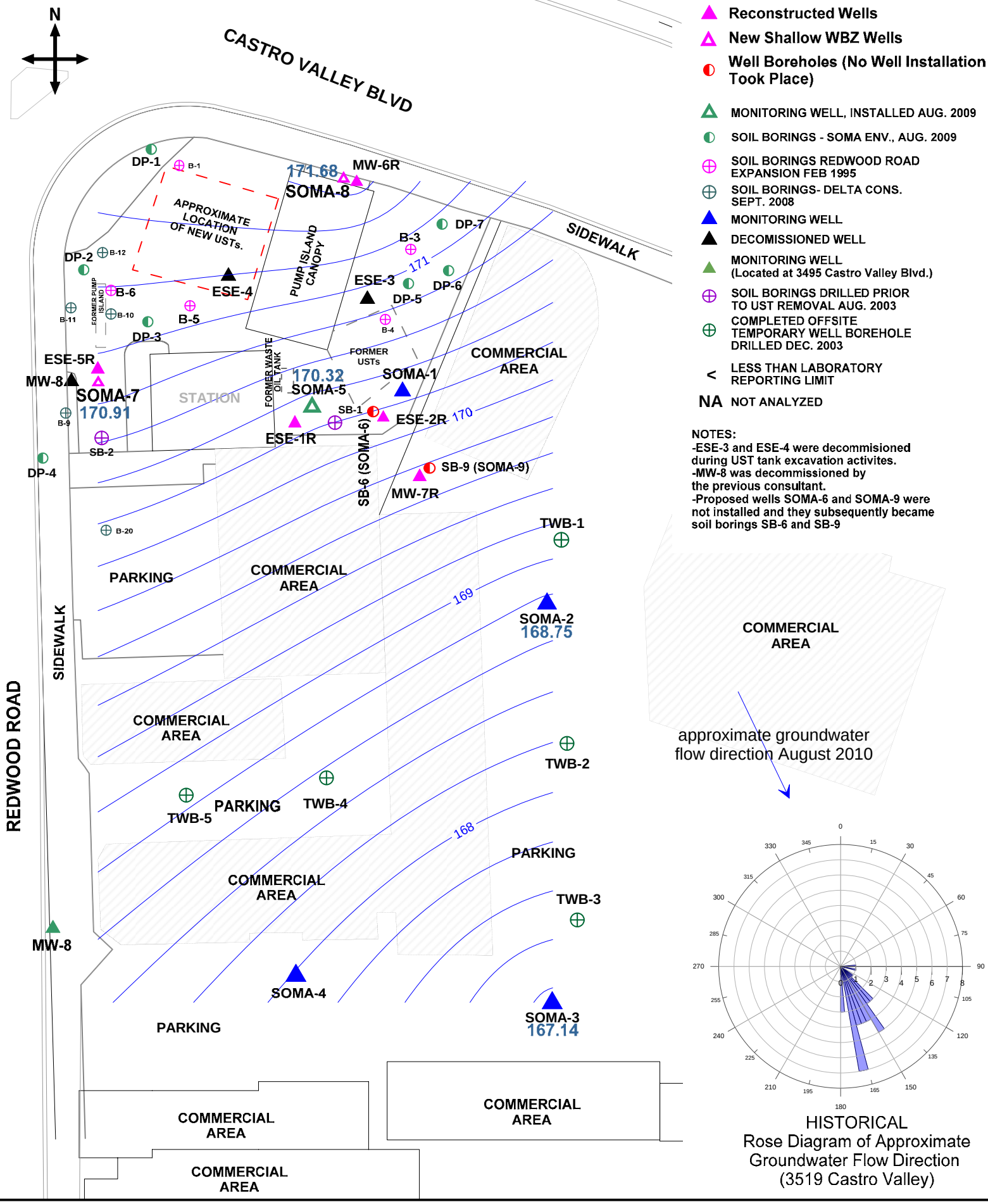


Figure 7: Groundwater Elevation Map- Shallow WBZ

ENVIRONMENTAL ENGINEERING, INC.

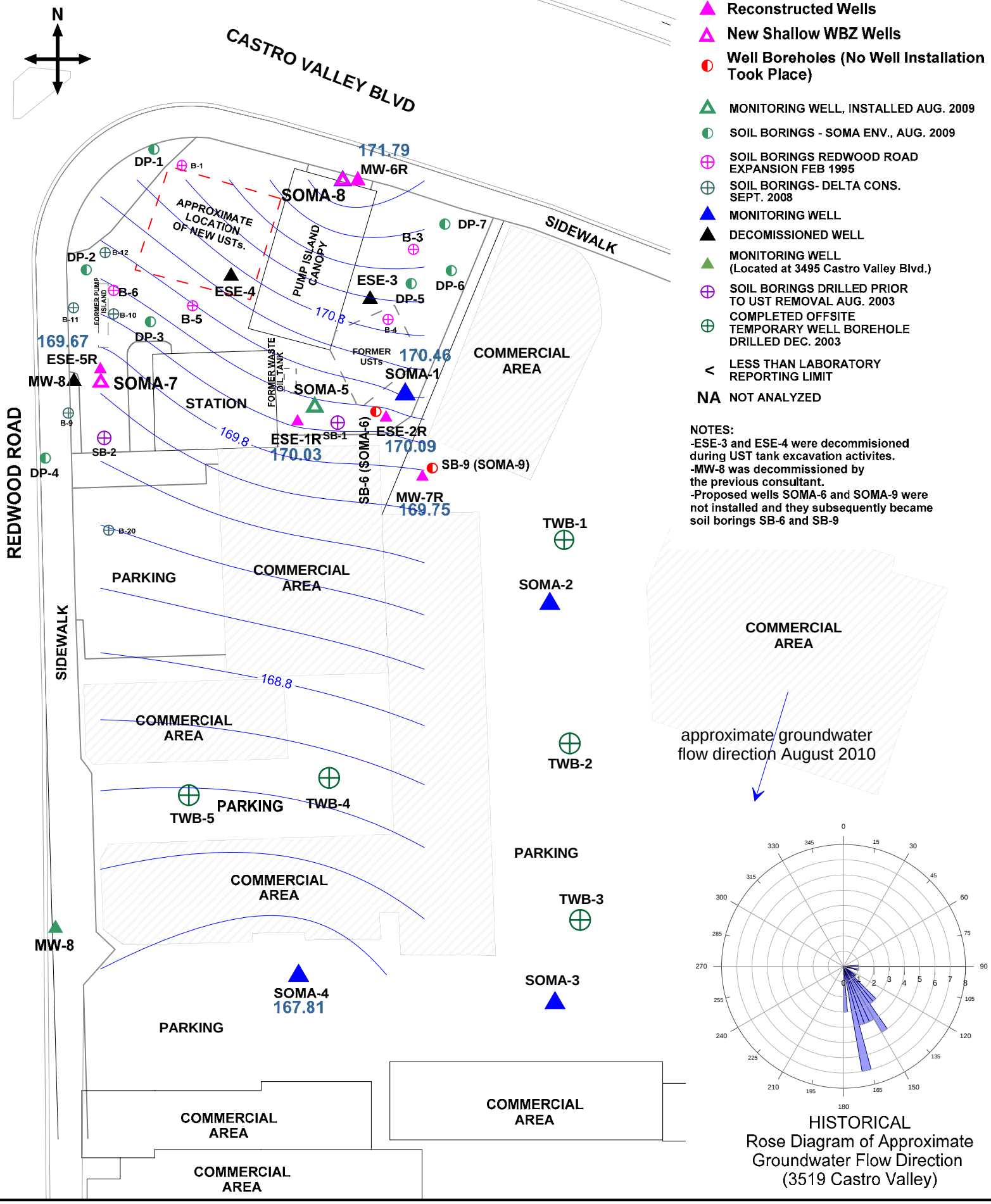
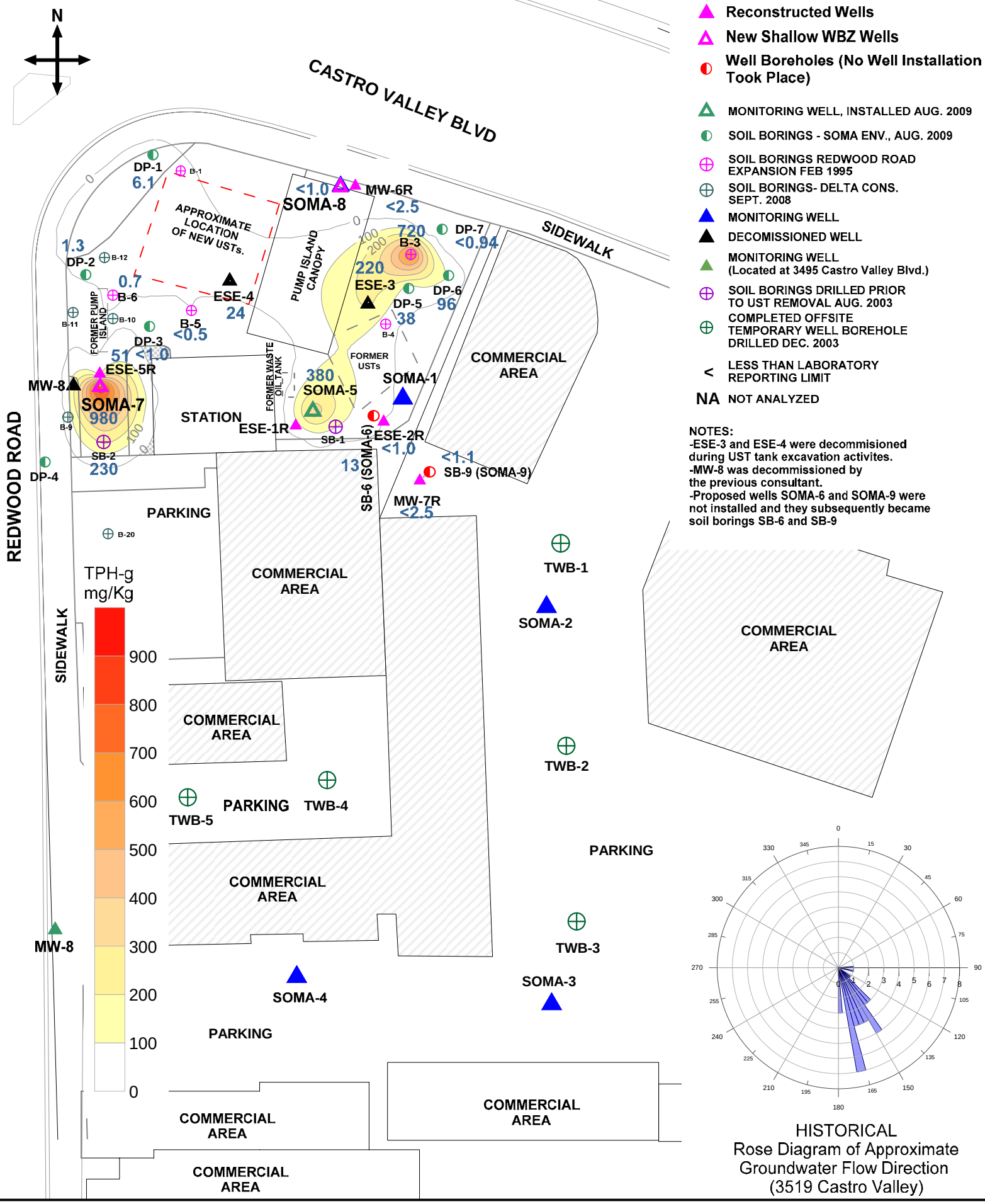


Figure 8: Groundwater Elevation Map- Semi-Confined WBZ

ENVIRONMENTAL ENGINEERING, INC.



HISTORICAL
Rose Diagram of Approximate Groundwater Flow Direction
(3519 Castro Valley)

approximate scale in feet
0 60 120

Figure 9: Contour Map Showing TPH-g Concentrations in Soil from 9 to 12 feet bgs

ENVIRONMENTAL ENGINEERING, INC.

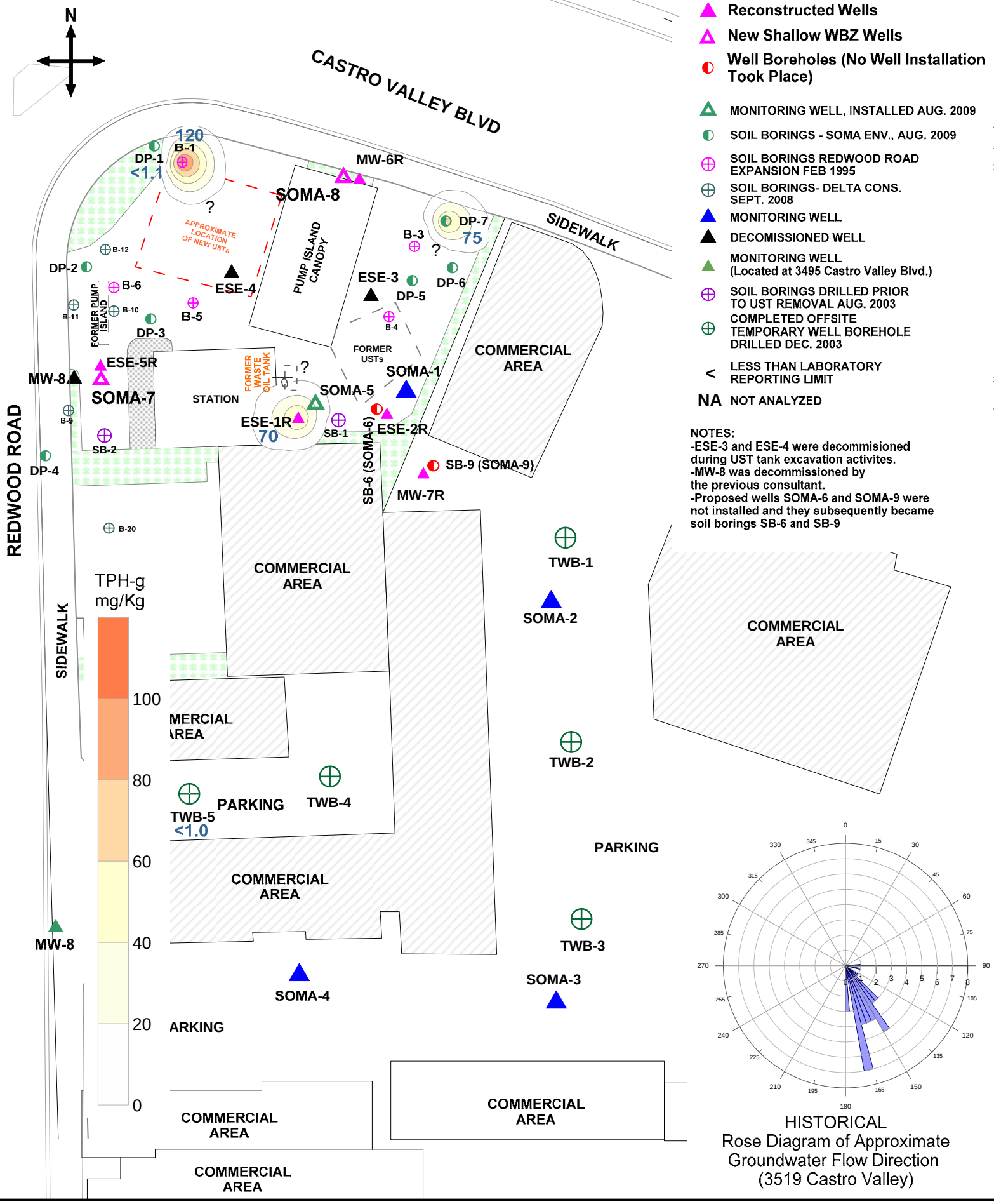


Figure 10: Contour Map Showing TPH-g Concentrations in Soil from 15 to 17 feet bgs

ENVIRONMENTAL ENGINEERING, INC.

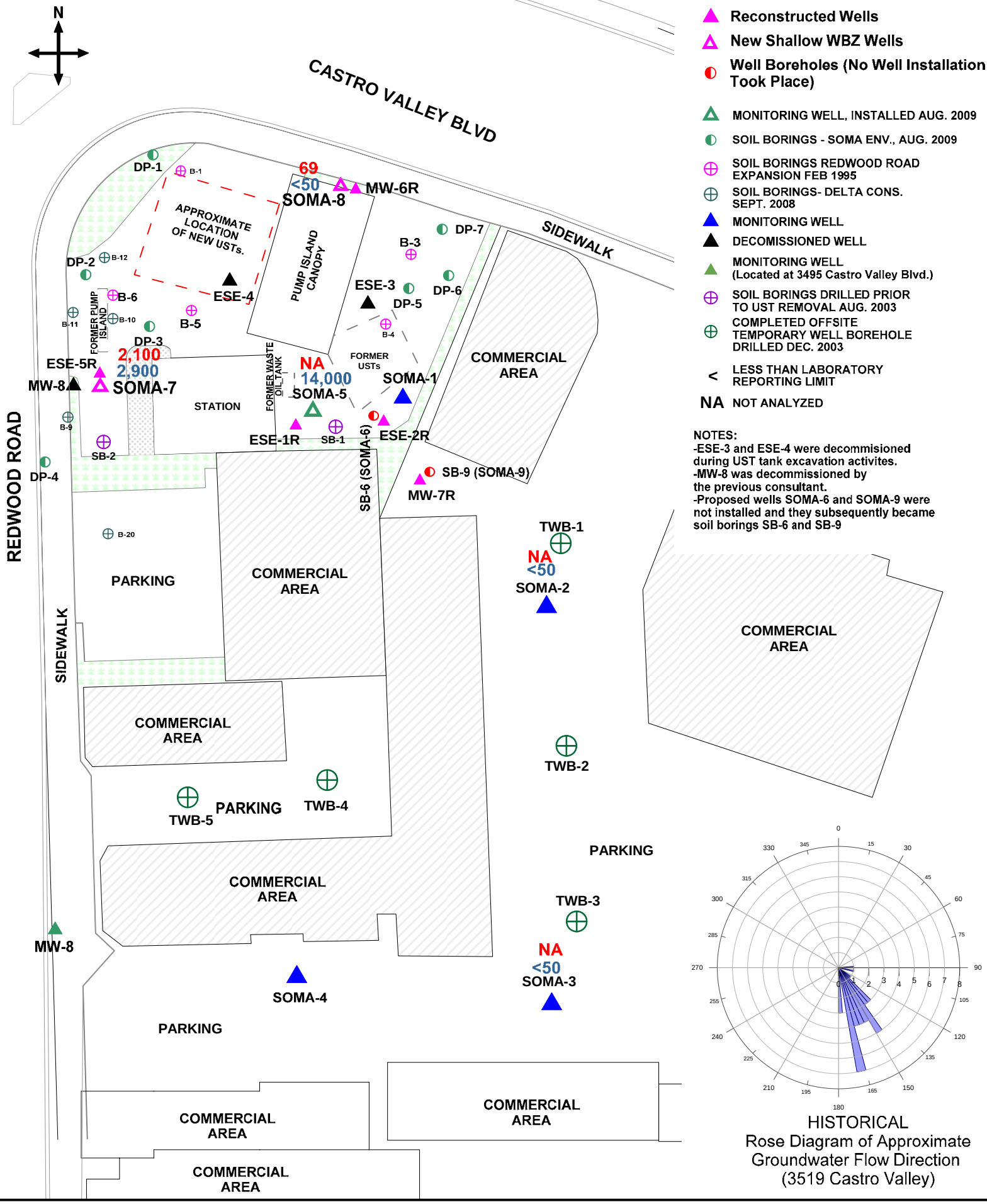
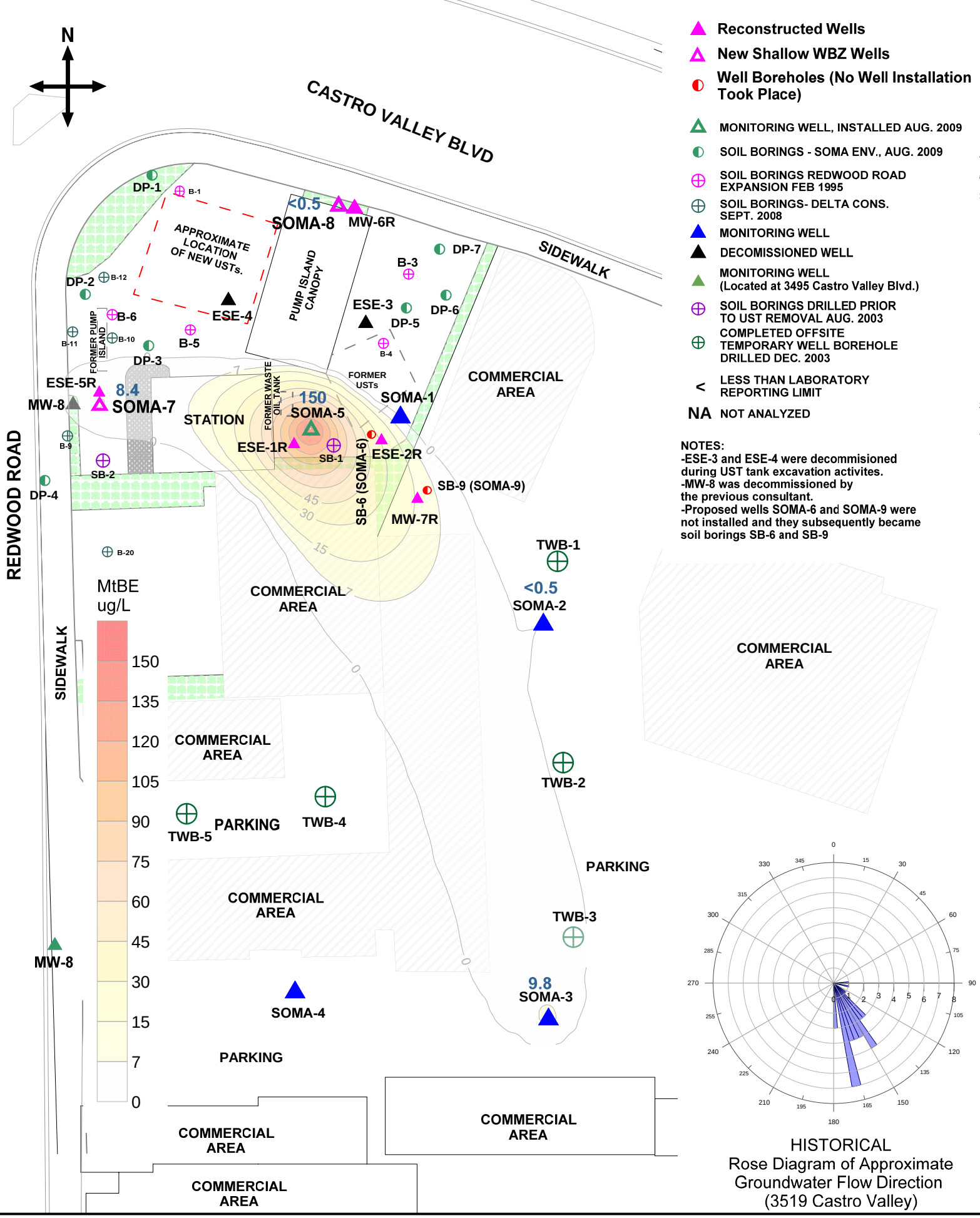


Figure 11:Map Showing TPH-g and TPH-d Concentrations in the Shallow WBZ

ENVIRONMENTAL ENGINEERING, INC.



HISTORICAL
Rose Diagram of Approximate Groundwater Flow Direction
(3519 Castro Valley)

approximate scale in feet
0 60 120

Figure 12: Contour Map Showing MtBE Concentrations in the Shallow WBZ

ENVIRONMENTAL ENGINEERING, INC.

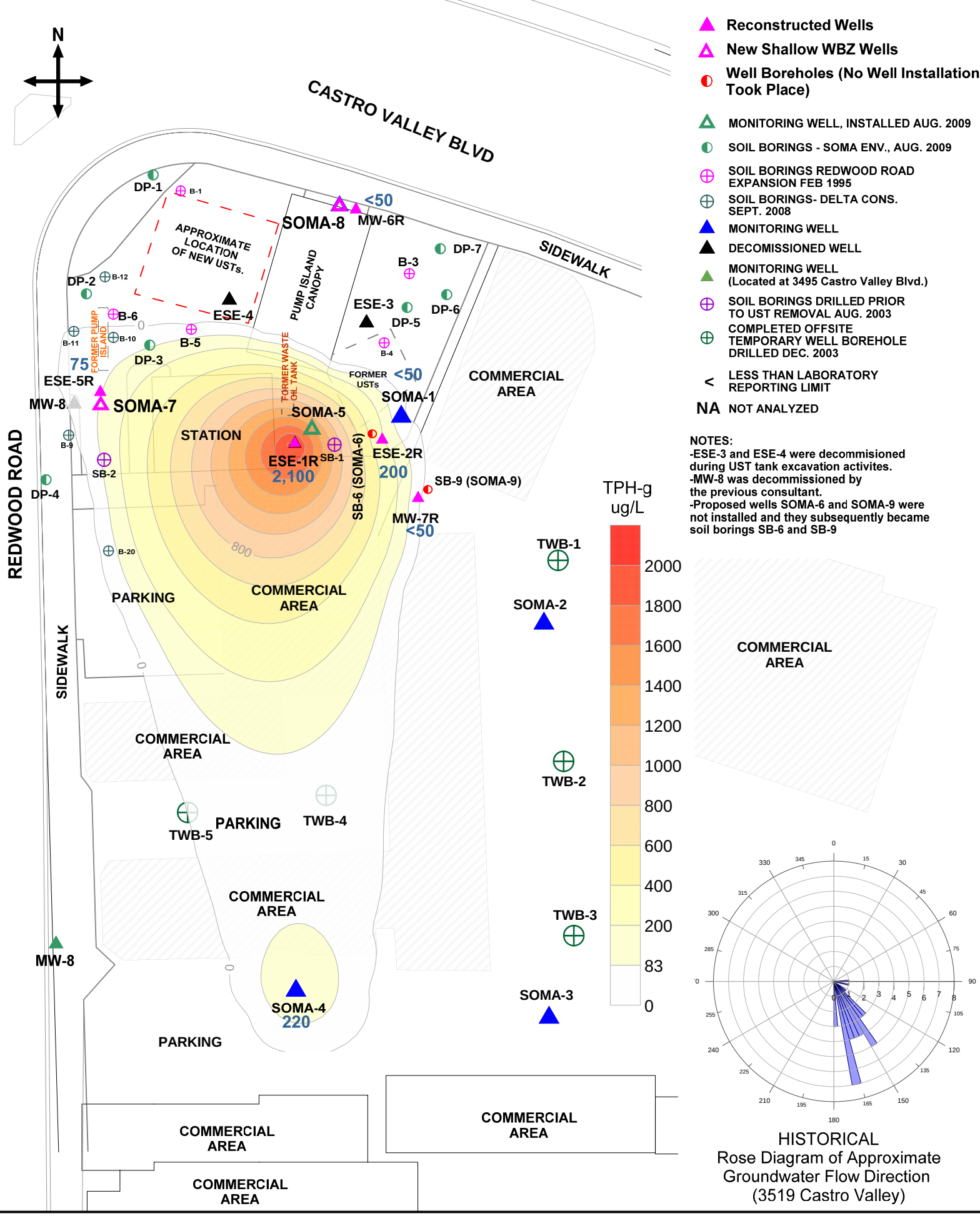
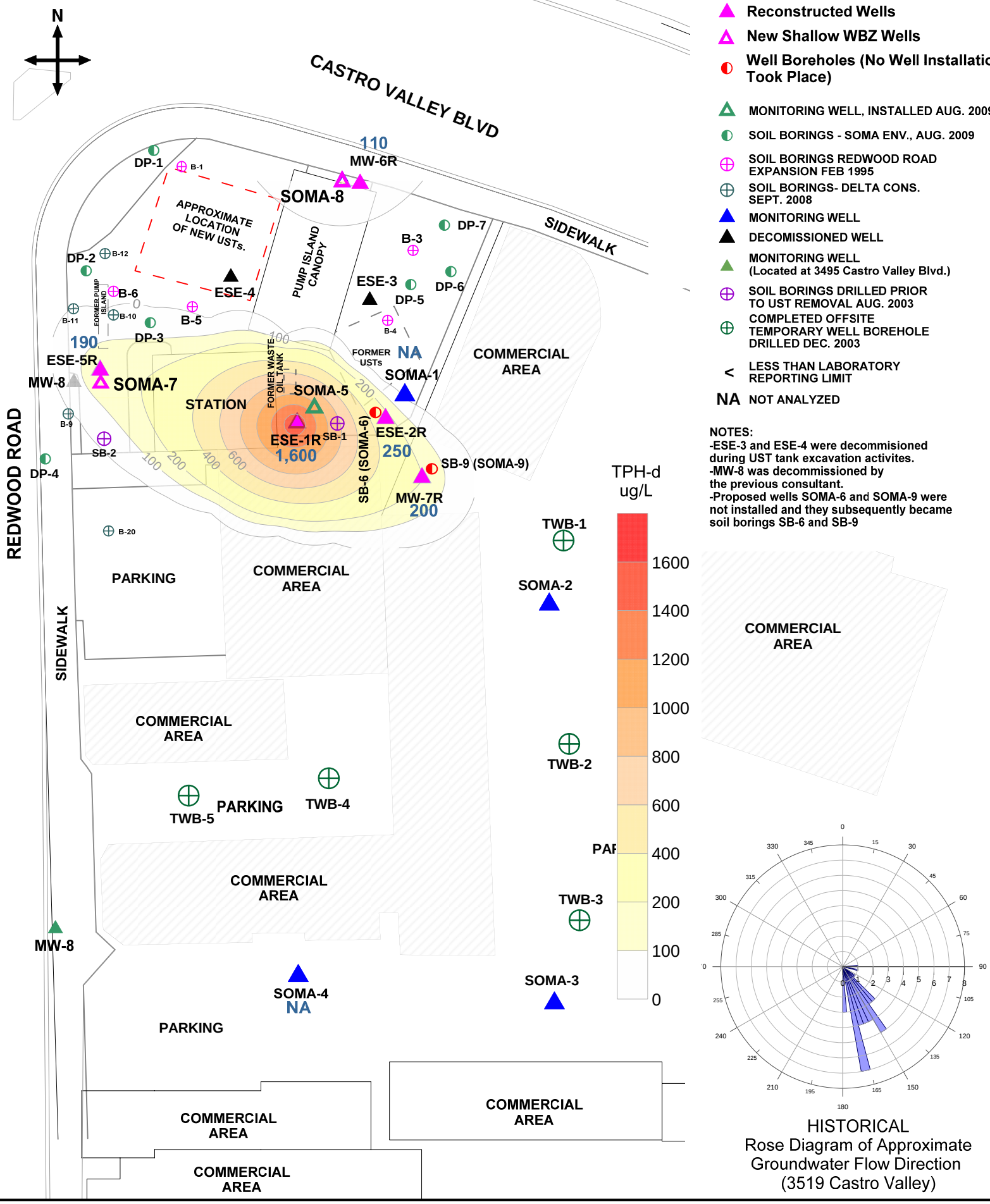


Figure 13: Contour Map Showing TPH-g Concentrations in the Semi-Confined WBZ

ENVIRONMENTAL ENGINEERING, INC.



- Reconstructed Wells
- New Shallow WBZ Wells
- Well Boreholes (No Well Installation Took Place)
- MONITORING WELL, INSTALLED AUG. 2009
- SOIL BORINGS - SOMA ENV., AUG. 2009
- SOIL BORINGS REDWOOD ROAD EXPANSION FEB 1995
- SOIL BORINGS- DELTA CONS. SEPT. 2008
- MONITORING WELL
- DECOMISSIONED WELL
- MONITORING WELL (Located at 3495 Castro Valley Blvd.)
- SOIL BORINGS DRILLED PRIOR TO UST REMOVAL AUG. 2003
- COMPLETED OFFSITE TEMPORARY WELL BOREHOLE DRILLED DEC. 2003
- < LESS THAN LABORATORY REPORTING LIMIT
- NA NOT ANALYZED

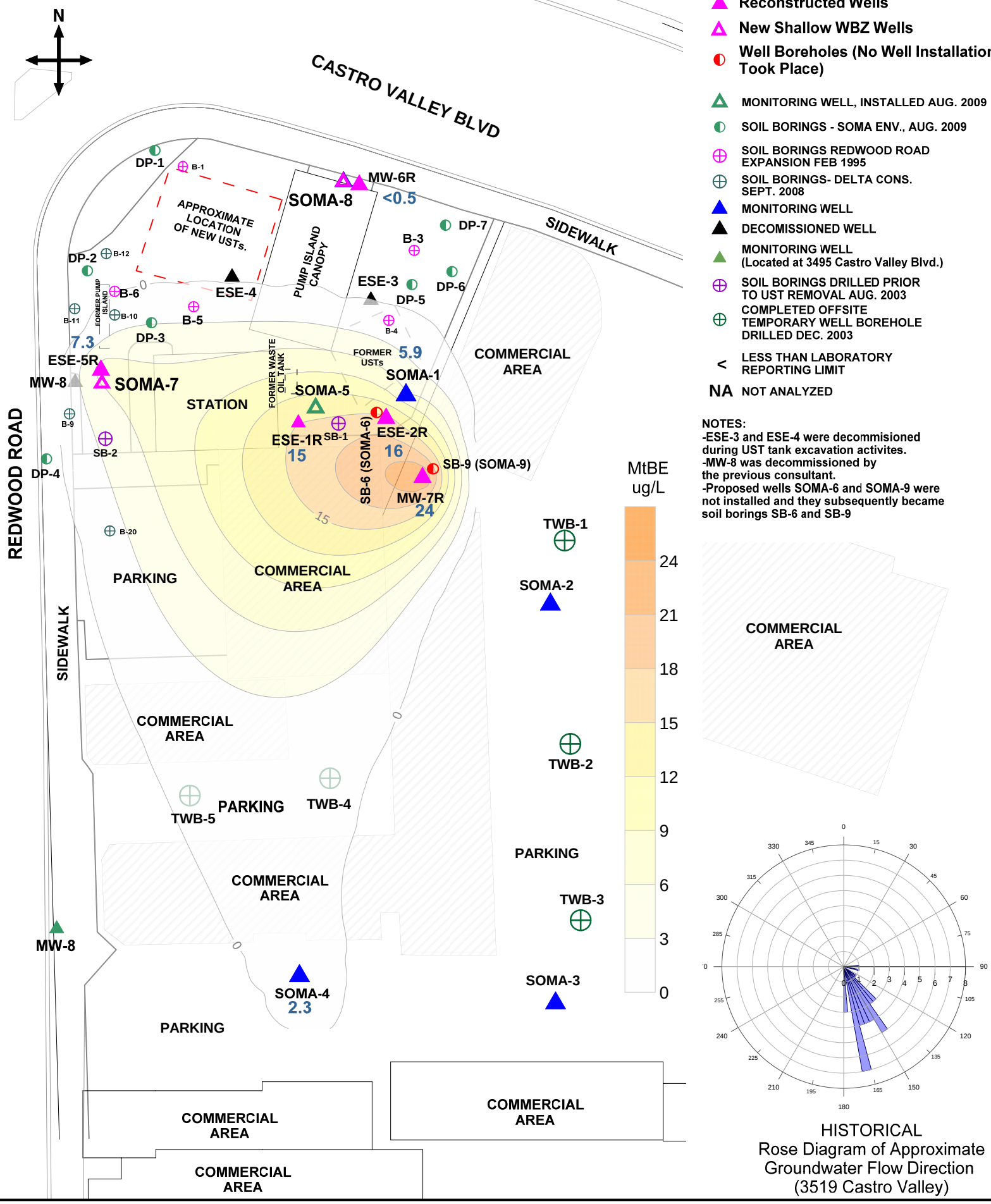
NOTES:
-ESE-3 and ESE-4 were decommisioned during UST tank excavation activites.
-MW-8 was decommissioned by the previous consultant.
-Proposed wells SOMA-6 and SOMA-9 were not installed and they subsequently became soil borings SB-6 and SB-9

HISTORICAL
Rose Diagram of Approximate Groundwater Flow Direction
(3519 Castro Valley)

approximate scale in feet
0 60 120

Figure 14: Contour Map Showing TPH-d Concentrations in the Semi-Confined WBZ

ENVIRONMENTAL ENGINEERING, INC.



- Reconstructed Wells
- New Shallow WBZ Wells
- Well Boreholes (No Well Installation Took Place)
- MONITORING WELL, INSTALLED AUG. 2009
- SOIL BORINGS - SOMA ENV., AUG. 2009
- SOIL BORINGS REDWOOD ROAD EXPANSION FEB 1995
- SOIL BORINGS- DELTA CONS. SEPT. 2008
- MONITORING WELL
- DECOMISSIONED WELL
- MONITORING WELL (Located at 3495 Castro Valley Blvd.)
- SOIL BORINGS DRILLED PRIOR TO UST REMOVAL AUG. 2003
- COMPLETED OFFSITE TEMPORARY WELL BOREHOLE DRILLED DEC. 2003
- < LESS THAN LABORATORY REPORTING LIMIT
- NA NOT ANALYZED

NOTES:
-ESE-3 and ESE-4 were decommisioned during UST tank excavation activites.
-MW-8 was decommissioned by the previous consultant.
-Proposed wells SOMA-6 and SOMA-9 were not installed and they subsequently became soil borings SB-6 and SB-9

HISTORICAL
Rose Diagram of Approximate Groundwater Flow Direction
(3519 Castro Valley)

approximate scale in feet
0 60 120

Figure 15: Contour Map Showing MtBE Concentrations in the Semi-Confined WBZ

ENVIRONMENTAL ENGINEERING, INC.

TABLES

Table 1

Historical Soil Analytical Data

3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	Napthalene (mg/kg)	Lead (mg/kg)
WO1	Kaprealian	8.5	9/20/1988	<1.0	NA	NA	<1.0	0.0068	0.0095	<0.005	<0.005	NA	NA	NA
Comp A	Kaprealian	Composite	9/20/1988	<1.0	NA	NA	100	NA	NA	NA	NA	NA	NA	NA
Comp B	Kaprealian	Composite	10/4/1988	<1.0	<10	NA	<50	NA	NA	NA	NA	NA	NA	NA
ESE-1	Alisto	15	9/29/1992	70	<5.0	NA	<50	**0.87**	2	1.2	**5.7**	NA	NA	NA
ESE-1	Alisto	20	9/29/1992	<1.0	<5.0	NA	<50	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
ESE-2	Alisto	10.5	9/28/1992	<1.0	<5.0	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
ESE-2	Alisto	20	9/28/1992	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
ESE-3	Alisto	10.5	9/29/1992	**220**	NA	NA	NA	**1.4**	**8.2**	**3.3**	**18**	NA	NA	NA
ESE-3	Alisto	20	9/29/1992	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
ESE-4	Alisto	6.5	9/28/1992	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
ESE-4	Alisto	10	9/28/1992	24	NA	NA	NA	**0.15**	0.17	0.23	0.82	NA	NA	NA
ESE-5	Alisto	10	9/28/1992	51	NA	NA	NA	**0.25**	0.24	0.3	0.17	NA	NA	NA
ESE-5	Alisto	14	9/28/1992	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
B-9	ACC Env	2	12/5/1994	9.9	NA	NA	NA	0.016	<0.005	0.067	0.23	NA	NA	NA
B-9	ACC Env	4	12/5/1994	1	NA	NA	NA	0.0058	<0.005	0.0065	0.009	NA	NA	NA
B-10	ACC Env	4	12/6/1994	59	NA	NA	NA	<50	<0.005	0.22	0.54	NA	NA	NA
B-11	ACC Env	2	12/6/1994	<10	NA	NA	NA	<50	<0.005	<0.005	<0.005	NA	NA	NA
B-12	ACC Env	4	12/6/1994	<10	NA	NA	NA	<50	<0.005	<0.005	<0.005	NA	NA	NA
B-12	ACC Env	6	12/6/1994	<10	NA	NA	NA	<50	<0.005	<0.005	<0.005	NA	NA	NA
B-20	ACC Env	3	12/8/1994	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
B-20	ACC Env	5	12/8/1994	<1.0	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	NA	NA	NA
MW-6	Alisto	6 to 6.5	7/18/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.05	NA	NA	NA
MW-6	Alisto	11 to 11.5	7/18/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.05	NA	NA	NA
MW-7	Alisto	6 to 6.5	7/18/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.05	NA	NA	NA
MW-7	Alisto	11 to 11.5	7/18/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.05	NA	NA	NA
MW-8	Alisto	3.5 to 4	7/19/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.050	NA	NA	NA
MW-8	Alisto	7.5 to 8	7/19/1995	8.8	NA	NA	NA	<0.025	<0.025	0.046[E]	0.11[E]	NA	NA	NA
SB-1	Alisto	1.5 to 2	7/19/1995	**140**	NA	NA	NA	<0.1	<0.1	1.4	**4.1**	NA	NA	NA
SB-1	Alisto	3.5 to 4	7/19/1995	**190**	NA	NA	NA	<0.25	0.33	**4.5**	**18**	NA	NA	NA
SB-1	Alisto	7 to 7.5	7/19/1995	**310**	NA	NA	NA	**0.088**	0.088[E]	0.41	2	NA	NA	NA
SB-2	Alisto	1.5 to 2	7/19/1995	<2.5	NA	NA	NA	<0.025	<0.025	<0.025	<0.05	NA	NA	NA
SB-2	Alisto	3.5 to 4	7/19/1995	20	NA	NA	NA	<0.025	<0.025	0.93[E]	0.12[E]	NA	NA	NA
SB-2	Alisto	5.5 to 6	7/19/1995	**140**	NA	NA	NA	<0.25	<0.25	1.2	1.4	NA	NA	NA
SB-2	Alisto	7.5 to 8	7/19/1995	**230**	NA	NA	NA	<0.25	<0.25	**3.9**	**5.1**	NA	NA	NA

Table 1

Historical Soil Analytical Data

3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	Napthalene (mg/kg)	Lead (mg/kg)
UST-NE	SOMA	9.5	9/4/2003	<0.96	<1.0	NA	NA	<0.0048	<0.0048	<0.0048	<0.0048	**0.059**	NA	NA
UST-NW	SOMA	9.5	9/4/2003	2[H]	<1.0	NA	NA	<0.0047	<0.0047	0.007	<0.0047	**0.069**	NA	NA
UST-SE	SOMA	8	9/4/2003	<1.1	<1.0	NA	NA	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	NA	NA
UST-SW	SOMA	8	9/4/2003	17[H]	36[LY]	NA	NA	<0.0049	0.044[C]	0.28	0.112	**0.071**	NA	NA
UST-SW	SOMA	10	9/4/2003	<1.0	<1.0	NA	NA	<0.0052	<0.0052	<0.0052	<0.0052	**0.075**	NA	NA
WOT-W	SOMA	5.5	9/4/2003	<0.97	<0.99	NA	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.019	NA	6.3
Pumps 1&2	SOMA	2.5	9/11/2003	4.5[HY]	NA	NA	NA	<0.0055	0.0055[C]	0.016	0.0197[C]	<0.022	NA	9.1
Pumps 3&4	SOMA	3	9/11/2003	<1.1	NA	NA	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.022	NA	6.9
Pumps 5&6	SOMA	3	9/11/2003	<1.1	NA	NA	NA	<0.0054	<0.0054	<0.0054	<0.0054	<0.022	NA	7.6
Pumps 7&8	SOMA	3	9/11/2003	<1.1	NA	NA	NA	<0.0053	<0.0053	<0.0053	<0.0053	<0.021	NA	18
Intersection	SOMA	3	9/11/2003	<1.1	NA	NA	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.022	NA	7.7
PL1[1]	SOMA	4	9/13/2003	**530[HY]**	NA	NA	NA	<0.011	<0.011	0.34[C]	0.524[C]	<0.043	NA	NA
PL2[2]	SOMA	4	9/13/2003	<1.1	NA	NA	NA	<0.0055	<0.0055	<0.0055	<0.0055	<0.022	NA	NA
SB1- Comp	SOMA	Composite	8/20/2003	<1.0	NA	NA	NA	0.02[C]	<0.0052	0.0098	0.013	**0.23**	NA	7.2
SB2 - Comp	SOMA	Composite	8/20/2003	390	NA	NA	NA	<0.13	<0.13	**2.8**	**9.8**	<0.5	NA	8.2
Comp 1	SOMA	Composite	9/3/2003	8.8	NA	NA	NA	<0.0054	<0.0054	0.032	0.049	<0.018	NA	10
Comp 2	SOMA	Composite	9/4/2003	<0.99	NA	NA	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	4.6
Comp 2R	SOMA	Composite	9/5/2003	21[H]	4.8[HLY]	NA	NA	<0.01	0.024[C]	0.054[C]	0.01[C]	<0.041	NA	5.3
Comp ESE-3WA	SOMA	Composite	10/3/2008	<1.1	NA	NA	NA	<0.0055	<0.0055	<0.0055	0.008	<0.022	NA	4
TWB-1	SOMA	22	12/2/2003	<1.0	NA	NA	NA	<0.0044	<0.0044	<0.0044	<0.0044	<0.0044	NA	NA
TWB-1	SOMA	25	12/2/2003	<0.94	NA	NA	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA	NA
TWB-2	SOMA	22	12/2/2003	<1.1	NA	NA	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA	NA
TWB-2	SOMA	24	12/2/2003	<1.0	NA	NA	NA	<0.0048	<0.0048	<0.0048	<0.0048	**0.027**	NA	NA
TWB-2	SOMA	27	12/2/2003	<1.1	NA	NA	NA	<0.0043	<0.0043	<0.0043	<0.0043	0.015	NA	NA
TWB-2	SOMA	29	12/2/2003	<1.0	NA	NA	NA	<0.0047	<0.0047	<0.0047	<0.0047	0.019	NA	NA
TWB-3	SOMA	22	12/2/2003	<0.95	NA	NA	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
TWB-3	SOMA	25	12/2/2003	<0.95	NA	NA	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA
TWB-3	SOMA	29	12/2/2003	<1.0	NA	NA	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA	NA
TWB-4	SOMA	10	12/2/2003	<0.93	NA	NA	NA	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	NA	NA
TWB-4	SOMA	27	12/2/2003	<1.1	NA	NA	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA	NA
TWB-4	SOMA	29	12/2/2003	<0.98	NA	NA	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA
TWB-5	SOMA	16	12/2/2003	<1.0	NA	NA	NA	0.018	<0.0045	0.041	0.187	<0.0045	NA	NA
TWB-5	SOMA	18	12/2/2003	<0.93	NA	NA	NA	<0.0045	<0.0045	<0.0045	<0.0045	<0.0045	NA	NA
TWB-5	SOMA	29	12/2/2003	<0.97	NA	NA	NA	<0.0045	<0.0045	0.0051	0.018	<0.0045	NA	NA

Table 1

Historical Soil Analytical Data

3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	Napthalene (mg/kg)	Lead (mg/kg)
B-1	Delta	17	8/28/2008	**120**	NA	NA	NA	<0.12	<0.12	<0.12	<0.24	<0.12	NA	NA
B-3	Delta	12	8/28/2008	**720**	NA	NA	NA	<0.5	<0.5	2	1.7	<0.5	NA	NA
B-4	Delta	10	8/28/2008	<0.5	NA	NA	NA	<0.005	<0.005	<0.005	<0.01	<0.005	NA	NA
B-5	Delta	12	8/28/2008	<0.5	NA	NA	NA	<0.005	<0.005	<0.005	<0.01	<0.005	NA	NA
B-6	Delta	9 to 10	8/28/2008	0.7	NA	NA	NA	<0.005	<0.005	<0.005	<0.01	<0.005	NA	NA
DP-1	SOMA	11	8/18/2009	6.1 Y	48 Y	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
DP-1	SOMA	14	8/18/2009	25 Y	35 Y	<5.0	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA
DP-1	SOMA	17	8/18/2009	<1.1	1.9 Y	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
DP-2	SOMA	8	8/17/2009	1.4 Y	4.3 Y	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
DP-2	SOMA	12	8/17/2009	1.3 Y	1.6 Y	<5.0	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA	NA
DP-3	SOMA	12	8/17/2009	<1.0	<0.99	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
DP-4	SOMA	6	8/17/2009	<1.1	<1.0	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
DP-4	SOMA	14	8/17/2009	<0.93	<1.0	<5.0	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA
DP-5	SOMA	12	8/18/2009	38	16 Y	<5.0	NA	<0.047 a	<0.047 a	0.11 a	1.87 a	<0.047 a	NA	NA
DP-5	SOMA	14	8/18/2009	**91**	51 Y	22	NA	<0.25 b	<0.25 b	2.4 b	**11 b**	<0.25 b	NA	NA
DP-5	SOMA	20	8/18/2009	26	8.1 Y	<5.0	NA	<0.017 c	<0.017 c	<0.017 c	0.051 c	<0.017 c	NA	NA
DP-6	SOMA	12	8/18/2009	**96**	2.6 Y	<5.0	NA	<0.025 f	<0.025 f	0.54 f	0.2 f	<0.025 f	NA	NA
DP-6	SOMA	14	8/18/2009	1.5	3.9 Y	<5.0	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA
DP-6	SOMA	17	8/18/2009	75	9.9	<5.0	NA	<0.04 d	<0.04 d	0.22 d	0.84 d	<0.04 d	NA	NA
DP-7	SOMA	12	8/18/2009	<0.97	<1.0	<5.0	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA	NA
DP-7	SOMA	14	8/18/2009	<0.94	<0.99	<5.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA	NA
SOMA-5	SOMA	11	8/18/2009	**380**	31 Y	<5.0	NA	<0.25 b	<0.25 b	2.0 b	**14.2 b**	<0.25 b	NA	NA
SOMA-5	SOMA	12.5	8/18/2009	28	2.6 Y	<5.0	NA	<0.05 e	<0.05 e	0.4 e	**2.65 e**	<0.05 e	NA	NA

Table 1

Historical Soil Analytical Data

3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample Depth (feet)	Sample Date	TPH-g (mg/kg)	TPH-d (mg/kg)	TPH-mo (mg/kg)	TOG (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl Benzene (mg/kg)	Total Xylenes (mg/kg)	MtBE (mg/kg)	Napthalene (mg/kg)	Lead (mg/kg)
SB-6 (SOMA-6)	SOMA	9	8/9/2010	<1.1	<0.99	<5.0	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA
SB-6 (SOMA-6)	SOMA	11.5	8/9/2010	13 Y	5.3 Y	16.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA
SOMA-7	SOMA	2.5	8/9/2010	9.9 Y	79	91.0	NA	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	NA
SOMA-7	SOMA	9	8/9/2010	**430 Y**	**170**	63.0	NA	<0.25	<0.25	<0.25	<0.25	<0.25	**3.7**	NA
SOMA-7	SOMA	10	8/9/2010	**980 Y**	**370 Y**	15.0	NA	<2.5	<2.5	**9**	<2.5	<2.5	**13**	NA
SOMA-8	SOMA	7.5	8/9/2010	<1.0	<1.0	<5.0	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA
SOMA-8	SOMA	12.5	8/9/2010	<1.0	<0.99	<5.0	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA
SB-9 (SOMA-9)	SOMA	7	8/9/2010	<1.0	<1.0	<5.0	NA	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	NA
SB-9 (SOMA-9)	SOMA	13.5	8/9/2010	<1.1	<1.0	<5.0	NA	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	<0.0047	NA
ESL - Shallow Soil, Commercial				83	83	2500	2500	0.044	2.9	3.3	2.3	0.023	1.3	750
ESL - Deep Soils, Commercial				83	83	5000	5000	0.044	2.9	3.3	2.3	0.023	3.4	750

Notes:

< - not detected above laboratory reporting limits

NA - not analyzed

C - Presence confirmed but RPD between columns exceeds 40%

E - Analyte Amount Exceeds the Calibration Range

H - Heavier hydrocarbons contributed to the quantitation

L - Lighter Hydrocarbons contriuted to quantitiation

Y - Sample exhibits chromatographic pattern that does not resemble standard

1 - located adjacent to pumps 5&6

2 - located adjacent to pumps 3&4

Petroleum Hydrocarbons analyzed by EPA 8015, 8021, and 8260

TOG - Total Oil and Gas

ESL - Environmental Screening Level, California Regional Water Control Board, Interim Final November 2007, revised May 2008

a Dilution factor 9.434

b Dilution factor 50

c Dilution factor 3.311

d Dilution Factor 8.065

e Dilution Factor 10

f Dilution Factor 4.950

Table 2

Historical Grab Groundwater Analytical Data

3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample 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 (µg/L)	TBA (µg/L)
ESE-1	Alisto	7/28/1995	**190**	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	NA
ESE-2	Alisto	7/28/1995	**2,000**	NA	NA	<2.5	<2.5	<2.5	<5.0	NA	NA
ESE-3	Alisto	7/28/1995	<50	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	NA
ESE-4	Alisto	7/28/1995	<50	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	NA
ESE-5	Alisto	7/28/1995	**520**	NA	NA	**15**	<0.5	1.7	1.3	NA	NA
ESE-5 QC1	Alisto	7/28/1995	**460**	NA	NA	**7.2**	<0.5	1.9	1.5	NA	NA
MW-6	Alisto	7/28/1995	<50	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	NA
MW-7	Alisto	7/28/1995	<50	NA	NA	0.54[E]	0.54	<0.5	<1.0	NA	NA
MW-8	Alisto	7/28/1995	**1,100**	NA	NA	<2.5	<2.5	<2.5	<5.0	NA	NA
S-10	Alisto	7/28/1995	<50	NA	NA	<0.5	<0.5	<0.5	<1.0	NA	NA
ESE-3 WA	SOMA	10/3/2003	**110**	NA	NA	<5.0	<5.0	0.59	1.2	3.3	NA
TWB-1	SOMA	12/2/2003	<50	NA	NA	<0.5	<0.5	<0.5	0.8	**8.5**	NA
TWB-2	SOMA	12/2/2003	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	**89**	NA
TWB-3	SOMA	12/2/2003	<50	NA	NA	<0.5	<0.5	<0.5	<0.5	**37**	NA
TWB-4	SOMA	12/2/2003	<50	NA	NA	<0.5	<0.5	<0.5	2.3	<0.5	NA
TWB-5	SOMA	12/2/2003	**32,000**	NA	NA	**500**	13	**540**	**1,150**	**9.5**	NA
B-4	Delta	8/28/2008	<50	NA	NA	<0.5	<1.0	<1.0	<2.0	<1.0	<10
B-5	Delta	8/28/2008	<50	NA	NA	<0.5	<1.0	<1.0	<2.0	<1.0	<10
B-6	Delta	8/28/2008	**900**	NA	NA	0.71	3.5	3.4	<2.0	<1.0	<10
MW-1[1]	Delta	10/28/2008	<50	NA	NA	<0.5	<1.0	<1.0	<2.0	**15**	**38**
MW-2[1]	Delta	10/28/2008	74	NA	NA	<0.5	<1.0	<1.0	<2.0	**51**	<10
MW-3[1]	Delta	10/28/2008	<50	NA	NA	<0.5	<1.0	<1.0	<2.0	**19**	<10
MW-4[1]	Delta	10/28/2008	<50	NA	NA	<0.5	<1.0	<1.0	<2.0	<1.0	<10
DP-1	SOMA	8/18/2009	**210 Y**	**140 Y**	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<10
DP-2	SOMA	8/17/2009	**130**	**340 Y**	**410**	<0.5	<0.5	3.7	<0.5	<0.5	<10
DP-3	SOMA	8/17/2009	<50	**330 Y**	**360**	<0.5	<0.5	<0.5	<0.5	1.9	<10
DP-4	SOMA	8/17/2009	<50	**980 Y**	**570**	<0.5	<0.5	<0.5	<0.5	0.76	<10

Table 2

Historical Grab Groundwater Analytical Data
3519 Castro Valley Blvd., Castro Valley

Sample ID	Consultant	Sample 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 (µg/L)	TBA (µg/L)
DP-5	SOMA	8/18/2009	**640**	**240 Y**	<300	**8.9**	1.6	18	**71**	4.8	<10
DP-6	SOMA	8/18/2009	**1,600**	**470 Y**	<300	**18**	<0.5	**71**	**186**	<0.5	<10
DP-7	SOMA	8/18/2009	<50	**130 Y**	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<10
SOMA-5	SOMA	9/21/2009	**16,000**	NA	NA	**1,300**	<10	**420**	**2,360**	**120**	**510**
ESE-1R	SOMA	8/30/2010	**2,100**	**1,600 Y**	**560**	**110**	5.2	19	**151**	**15**	**83**
ESE-2R	SOMA	8/30/2010	**200**	**250 Y**	<300	0.93	<0.50	1.3	13.5	**16**	<10
ESE-5R	SOMA	8/30/2010	75	**190 Y**	<300	<0.5	<0.5	<0.5	<0.5	**7.3**	<10
MW-6R	SOMA	8/30/2010	<50	**110 Y**	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<10
MW-7R	SOMA	8/30/2010	<50	**200 Y**	**420**	<0.5	<0.5	<0.5	<0.5	**24**	<10
SOMA-7	SOMA	8/30/2010	**2,900**	**2,100 Y**	**330**	**190**	3.7	**74**	19.8	**8.4**	<33
SOMA-8	SOMA	8/30/2010	<50	69 Y	<300	<0.5	<0.5	<0.5	<0.5	<0.5	<10
ESL - Drinking Water			**100**	**100**	**100**	**1**	**40**	**30**	**20**	**5**	**12**
ESL - Non-Drinking Water			**210**	**210**	**210**	**46**	**130**	**43**	**100**	**1,800**	**18,000**

Notes:

1: Wells designated by Delta, Correct designation for monitoring wells is: MW-1 is ESE-1, MW-2 is ESE-2, MW-3 is SOMA-1, MW-4 is MW-6

ESL - Environmental Screening Level, California Regional Water Control Board, Interim Final November 2007, revised May 2008

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-1	10/5/1992	177.69	11.22	166.47	2100	370	150	17	110	NA
	10/5/1992	177.69	NM	NM	2300	370	160	16	110	NA
	4/1/1993	177.69	8.79	168.90	5900	1500	410	110	390	NA
	6/29/1993	177.69	10.34	167.35	7600	2900	390	130	460	NA
	9/23/1993	177.69	10.91	166.78	2000	490	40	20	56	600
	9/23/1993	177.69	NM	NM	1500	420	39	19	56	550
	12/10/1993	177.69	9.93	167.76	1800	480	42	19	66	921
	12/10/1993	177.69	NM	NM	1500	380	38	17	55	770
	2/17/1994	177.69	9.64	168.05	1900	380	48	24	80	585
	2/17/1994	177.69	NM	NM	2200	430	42	19	65	491
	8/8/1994	177.69	11.72	165.97	2100	450	46	16	50	760
	10/12/1994	177.69	10.48	167.21	760	240	16	51	39	230
	1/19/1995	177.69	7.77	169.92	840	600	120	22	58	NA
	5/2/1995	177.69	8.69	169.00	2000	640	67	24	98	NA
	7/28/1995	177.69	10.12	167.57	190	<0.50	<0.50	<0.50	<1.0	NA
	11/17/1995	177.69	10.57	167.12	200	3.4	<1.0	1	<2.0	600
	2/7/1996	177.69	7.41	170.28	750	370	23	21	64	680
	4/23/1996	177.69	9.12	168.57	310	100	<1.0	<1.0	<1.0	1500
	7/9/1996	177.69	10.12	167.57	730	230	74	13	63	750
	10/10/1996	177.69	10.80	166.89	420	26	1.6	7.3	12	430

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-1 cont.	1/20/1997	177.69	10.52	167.17	660	290	4.2	13	36	450
	4/25/1997	177.69	9.77	167.92	410	<0.5	<1.0	<1.0	<1.0	580
	7/18/1997	177.69	10.55	167.14	420	<0.5	<1.0	<1.0	<1.0	370
	10/27/1997	177.69	10.36	167.33	300	56	<1.0	6.5	<1.0	220
	1/22/1998	177.69	7.52	170.17	4200	440	9	15	17.7	1300
	4/23/1998	177.69	8.80	168.89	15000	3400	190	910	900	4900
	4/23/1998	177.69	NM	NM	15000	2800	140	730	730	4400
	7/29/1998	177.69	9.73	167.96	NA	NA	NA	NA	NA	NA
	7/30/1998	177.69	NM	NM	15000	<2.5	<5.0	<5.0	<5.0	15000
	12/17/1998	177.69	9.51	168.18	2400	73	1	2.8	4.6	2000
	3/19/1999	177.69	8.65	169.04	4700	58	<1.0	<1.0	<1.0	4700
	6/23/1999	177.69	10.51	167.18	600	170	<1.0	7.2	5	3900
	9/27/1999	177.69	10.32	167.37	920	200	<25	<25	<25	4900
	12/9/1999	177.69	10.24	167.45	460	130	1.2	5.2	1.5	5100
	3/9/2000	177.69	7.72	169.97	3000	1300	120	80	140	7300
	6/8/2000	177.69	9.40	168.29	2900	540	9.7	20	17	5200
	9/18/2000	177.69	10.05	167.64	890	3.4	<0.5	1.4	<0.5	2800
	12/14/2000	177.69	8.20	169.49	1600	11.1	<0.5	<0.5	<0.5	2730
	3/21/2001	177.69	9.75	167.94	5700	2.28	<0.5	0.51	<1.5	6810
	6/18/2001	177.69	10.21	167.48	2000	152	0.669	3.62	2.34	1980
	9/18/2001	177.69	10.30	167.39	2500	57.1	<5.0	6.25	<15	2090
	12/13/2001	177.69	9.82	167.87	2800	208	6.05	8.54	9.66	2030
	3/14/2002	177.69	9.10	168.59	1800	140	6.31	4.5	9.41	1970
	6/19/2002	177.69	9.92	167.77	1100	220	2.02	4.23	3.8	1280
	9/10/2002	177.69	10.21	167.48	490	39	2.9	<2.0	4.9	670
	12/16/2002	177.69	8.56	169.13	730	140	6	3.2	9.1	670

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-1 cont.	3/11/2003	177.69	9.40	168.29	1700	490	21	22	41	530
	6/17/2003	177.69	9.86	167.83	1300	140	<10	<10	<10	480
	12/9/2003	177.69	9.32	168.37	1400	390	12	14	26.1	260
	2/26/2004	177.69	7.71	169.98	3200	880	50	44	89	200
	5/21/2004	177.69	10.19	167.50	1500	370	10	14	25.2	140
	8/10/2004	180.24	10.41	169.83	460	390	7	8.1	15.4	110
	10/19/2004	180.24	10.40	169.84	1600	490	13	12	25.3	110
	1/14/2005	180.24	8.26	171.98	790 Z	420	26	19	52	91
	4/14/2005	180.24	8.77	171.47	3020	766	25.6	21.3	25.26	88.2
	7/7/2005	180.24	9.94	170.30	1940	440	15.5	15.7	21	80.6
	11/15/2005	180.24	10.21	170.03	1260	259	6.2	8.2	10.81	45.8
	2/8/2006	180.24	9.01	171.23	1430	332	13.6	18.1	25.03	43
	4/27/2006	180.24	9.14	171.10	1,600	519	23.2	32.4	40.20	63.4
	8/1/2006	180.24	9.92	170.32	1,530	395	11.8	25.4	28.01	40
	10/19/2006	180.24	10.34	169.90	1,230	327	10.2	21.6	21.19	29.6
	1/12/2007	180.24	9.84	170.40	561	153	7.18	14.4	14.95	30.9
	4/17/2007	180.24	9.78	170.46	467	192	7.59	13.8	16.42	30.4
	7/17/2007	180.24	9.82	170.42	755	271	8.6	17.8	22.06	26.7
	10/16/2007	180.24	8.99	171.25	164	80.2	<2.0	5.24	2.47	16.6
	1/17/2008	180.24	9.35	170.89	70	10.8	<2.0	<0.50	<2.0	19.3
	4/17/2008	180.24	9.80	170.44	687	89.7	<2.0	4.01	5.30	8.79
	7/16/2008	180.24	10.17	170.07	1,400	223	3.88	12.6	17.88	18.1
	10/14/2008	180.24	10.86	169.38	540	95	2.7	7.7	18	15
	1/6/2009	180.24	10.10	170.14	500 Y	130	3	8.8	17.1	13
	4/6/2009	180.24	10.05	170.19	910 Y	230	2.4	11	12.1	17
	7/7/2009	180.24	10.42	169.82	850 Y	89	1.9	7.8	15.1	15
	1/27/2010	180.24	7.94	172.30	1,600	250	8.8	30	69	23
	7/26/2010	**180.24**	**9.95**	**170.29**	**1,000**	**96**	**1.2**	**4.2**	**6**	**17**
ESE-1R	**8/30/2010**	**180.2**	**10.17**	**170.03**	**2,100**	**110**	**5.2**	**19**	**151**	**15**

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-2	10/5/1992	178.23	11.68	166.55	300	5.4	16	3.9	45	NA
	4/1/1993	178.23	9.17	169.06	240	27	<0.5	17	2.6	123
	6/29/1993	178.23	10.88	167.35	1,700	260	24	110	23	NA
	6/29/1993	178.23	NM	NM	1,300	240	17	110	25	NA
	9/23/1993	178.23	11.56	166.67	240	3.1	0.5	0.6	2.5	643
	12/10/1993	178.23	10.48	167.75	250	2.4	2.4	1.5	11	940
	2/17/1994	178.23	10.06	168.17	900	<0.5	<0.5	<0.5	<0.5	930
	8/8/1994	178.23	11.11	167.12	750	<0.5	<0.5	<0.5	<0.5	1400
	10/12/1994	178.23	11.31	166.92	1,700	<0.5	<0.5	<0.5	<0.5	3000
	1/19/1995	178.23	8.25	169.98	300	2	0.9	0.7	1	NA
	5/2/1995	178.23	9.21	169.02	1,200	4	<2.5	<2.5	<5	NA
	7/28/1995	178.23	10.64	167.59	2,000	<2.5	<2.5	<2.5	<5	NA
	11/17/1995	178.23	11.13	167.10	3,600	<25	<25	<25	<50	12000
	11/17/1995	178.23	NM	NM	3,400	<25	<25	<25	<50	12000
	2/7/1996	178.23	7.94	170.29	450	<0.5	<1	<1	<1	2300
	4/23/1996	178.23	9.73	168.50	260	0.9	<1	<1	<1	8600
	7/9/1996	178.23	10.70	167.53	780	<2.5	<5	<5	<5	13393
	10/10/1996	178.23	11.39	166.84	2,900	<0.5	<1	<1	<1	12000
	1/20/1997	178.23	9.04	169.19	<250	<2.5	<5	<5	<5	13000
	4/25/1997	178.23	10.31	167.92	2,700	<0.5	<1	<1	<1	15000
	7/18/1997	178.23	11.02	167.21	11,000	<5	<10	<10	<10	11000
	10/27/1997	178.23	10.93	167.30	6,100	<2.5	<5.0	<5.0	<5.0	7100
	10/27/1997	178.23	NM	NM	6,600	<2.5	<5.0	<5.0	<5.0	7400
	1/22/1998	178.23	7.93	170.30	13,000	<0.5	<1	<1	<1	10000
	1/22/1998	178.23	NM	NM	13,000	<0.5	<1	<1	<1	10000
	4/23/1998	178.23	9.34	168.89	19,000	<5	<10	<10	<10	36000
	7/29/1998	178.23	10.29	167.94	NA	NA	NA	NA	NA	NA
	7/30/1998	178.23	NM	NM	19,000	<5	<10	<10	<10	36000
	12/17/1998	178.23	10.20	168.03	12,000	<5	<5	<5	<5	13000

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-2 cont	3/19/1999	178.23	9.02	169.21	18,000	160	<1	<1	<1	18000
	6/23/1999	178.23	9.99	168.24	280	<1	<1	<1	<1	16000
	9/27/1999	178.23	10.69	167.54	<500	<25	<25	<25	<25	12000
	12/9/1999	178.23	11.26	166.97	<50	<0.3	<0.3	<0.3	<0.6	12000
	3/9/2000	178.23	7.95	170.28	<50	1.6	<0.5	<0.5	<0.5	7900
	6/8/2000	178.23	9.66	168.57	1,600	<0.5	0.73	<0.5	2.2	9400
	12/14/2000	178.23	11.15	167.08	6,000	0.75	<0.5	<0.5	<0.5	11200
	3/21/2001	178.23	10.35	167.88	6,900	786	45.7	37.7	71.5	3790
	6/18/2001	178.23	11.24	166.99	6,400	<2.5	<2.5	<2.5	<7.5	9320
	9/18/2001	178.23	11.35	166.88	4,800	<12.5	<12.5	<12.5	<37.5	6960
	12/13/2001	178.23	10.97	167.26	59,000	0.592	<0.5	<0.5	<1	5940
	3/14/2002	178.23	10.13	168.10	4,500	76	<0.5	<0.5	<1	6660
	6/19/2002	178.23	10.91	167.32	250	<12.5	<12.5	<12.5	<25	4900
	9/10/2002	178.23	10.82	167.41	1,500	<5	<5	<5	6.3	3100
	12/16/2002	178.23	7.87	170.36	1,400	<5	<5	<5	<5	2400
	3/11/2003	178.23	10.24	167.99	2,800	<10	<10	<10	<10	4800
	6/17/2003	178.23	10.19	168.04	10,000	<100	<100	<100	<100	4400
	12/9/2003	178.23	9.97	168.26	<50	<0.5	<0.5	<0.5	<0.5	3400
	2/26/2004	178.23	7.89	170.34	<50	<0.5	<0.5	<0.5	<0.5	3000
	5/21/2004	178.23	10.70	167.53	<50	<0.5	<0.5	<0.5	<0.5	1100
	8/10/2004	180.79	10.99	169.80	<50	<0.5	<0.5	<0.5	<0.5	550
	10/19/2004	180.79	10.46	170.33	<50	<0.5	<0.5	<0.5	<0.5	410
	1/14/2005	180.79	8.66	172.13	<50	<8.3	<8.3	<8.3	<8.3	1200
	4/14/2005	180.79	9.38	171.41	<860	<2.15	<2.15	<2.15	<4.30	1020
	7/7/2005	180.79	10.46	170.33	<860	<2.15	<8.60	<2.15	<4.30	378
	11/15/2005	180.79	10.55	170.24	<50	<0.5	<2.0	<0.5	<1.0	210
	2/8/2006	180.79	9.46	171.33	<215	<2.15	<8.6	<2.15	<4.3	419
	4/27/2006	180.79	10.67	170.12	<100	1.71	<4.0	<1.0	<2.0	432
	8/1/2006	180.79	10.29	170.50	<100	2.83	<4.0	<1.0	<2.0	222
	10/19/2006	180.79	10.65	170.14	<50	0.8	<2.0	<0.5	<1.0	221

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-2 cont	1/12/2007	180.79	NM	NM	NA	NA	NA	NA	NA	NA
	4/17/2007	180.79	10.20	170.59	<50	3.17	<2.0	4.49	<2.0	158
	7/17/2007	180.79	10.31	170.48	<50	1.65	<2.0	<0.5	<2.0	105
	10/16/2007	180.79	9.22	171.57	<50	5.67	<2.0	<0.5	<2.0	73.9
	1/17/2008	180.79	9.88	170.91	<50.0	<0.50	<2.0	<0.50	<2.0	80.2
	4/17/2008	180.79	10.29	170.50	<50	<0.5	<2.0	<0.5	<2.0	45
	7/16/2008	180.79	10.64	170.15	<50	<0.5	<2.0	<0.5	<2.0	54
	10/14/2008	180.79	11.41	169.38	<50	<0.5	<0.5	<0.5	<0.5	41
	1/6/2009	180.79	10.60	170.19	<50	<0.5	<0.5	<0.5	<0.5	36
	4/6/2009	180.79	10.62	170.17	<50	<0.5	<0.5	<0.5	<0.5	30
	7/7/2009	180.79	10.92	169.87	<50	2.4	<0.5	<0.5	<0.5	32
	1/27/2010	180.79	8.36	172.43	<50	<0.5	<0.5	<0.5	<0.5	26
	7/26/2010	**180.79**	**10.44**	**170.35**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**13**
ESE-2R	**8/30/2010**	**180.7**	**10.61**	**170.09**	**200**	**0.93**	**<0.50**	**1.3**	**13.5**	**16**
ESE-3	10/5/1992	178.20	10.58	167.62	430	57	31	3.6	34	NA
	4/1/1993	178.20	8.14	170.06	2400	460	220	74	210	NA
	6/29/1993	178.20	9.72	168.48	280	56	14	15	13	NA
	9/23/1993	178.20	10.46	167.74	72	13	3.5	1.7	4.1	NA
	12/10/1993	178.20	9.30	168.90	270	71	32	6.1	33	NA
	2/17/1994	178.20	8.97	169.23	520	140	10	20	33	5.74
	8/8/1994	178.20	10.02	168.18	<50	8.8	1.6	1.6	2.3	<5.0
	10/12/1994	178.20	10.32	167.88	470	190	6.4	15	18	<5.0
	1/19/1995	178.20	7.40	170.80	330	260	27	21	20	NA
	5/2/1995	178.20	8.26	169.94	530	180	30	23	44	NA
	7/28/1995	178.20	9.54	168.66	<50	<0.50	<0.50	<0.50	<1	NA
	11/17/1995	178.20	10.04	168.16	<50	1.7	<0.50	<0.50	<1	<5.0
	2/7/1996	178.20	7.08	171.12	<50	8.6	<1	<1	<1	<10
	4/1/2396	178.20	8.79	169.41	<50	7.6	<1	<1	<1	65
	7/9/1996	178.20	10.09	168.11	<50	12	2.6	2	3.9	26
	10/10/1996	178.20	10.48	167.72	NA	NA	NA	NA	NA	NA
ESE-3 cont.	10/11/1996	178.20	NM	NM	260	140	<1	<1	2.6	<10
	1/20/1997	178.20	8.65	169.55	<50	1.5	1.7	<1	<1	14
	4/25/1997	178.20	10.02	168.18	<50	<0.5	<1	<1	<1	14
	7/18/1997	178.20	10.66	167.54	10000	1400	1400	300	1280	<250
	10/27/1997	178.20	9.83	168.37	<250	<2.5	<5.0	<5.0	36	<50

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
	1/22/1998	178.20	7.06	171.14	130	<0.5	<1.0	<1.0	<1.0	120
	4/23/1998	178.20	8.44	169.76	4800	560	<10	15	<10	4000
	7/29/1998	178.20	9.27	168.93	NA	NA	NA	NA	NA	NA
	7/30/1998	178.20	NM	NM	1800	6.2	<5.0	<5.0	<5.0	1700
	12/17/1998	178.20	9.15	169.05	600	54	<1.0	2.1	4.9	340/480
	3/19/1999	178.20	8.14	170.06	2000	260	4.4	13	28	870
	6/23/1999	178.20	9.44	168.76	290	91	<1.0	8.3	16	240
	9/27/1999	178.20	9.69	168.51	130	35	<1.0	2.7	3.8	100
	12/9/1999	178.20	10.99	167.21	380	84	1.7	8.7	6.3	160
	3/9/2000	178.20	7.12	171.08	950	190	4.6	39	62	350
	6/8/2000	178.20	10.92	167.28	300	37	<0.5	2.3	1.3	400
	9/18/2000	178.20	11.12	167.08	920	140	1.3	15	4.8	170
	12/14/2000	178.20	9.70	168.50	320	64	<0.5	6.24	1.76	201
	3/21/2001	178.20	10.07	168.13	680	80.5	0.546	21.1	18.2	398
	6/18/2001	178.20	11.42	166.78	380	47	<0.5	3.11	<1.5	242
	9/18/2001	178.20	11.55	166.65	340	54.8	<0.5	4.36	<1.5	79.7
	12/13/2001	178.20	10.12	168.08	270	31.4	<0.5	1.31	2.24	129
	3/14/2002	178.20	9.84	168.36	670	89.8	0.769	23.4	30.4	413
	6/19/2002	178.20	10.57	167.63	130	18.6	<0.5	<0.5	<1	166
	9/10/2002	178.20	9.90	168.30	88	12	<0.5	<0.5	<0.5	93
	12/16/2002	178.20	9.23	168.97	290	55	17	3.7	14	78
	3/11/2003	178.20	9.05	169.15	100	3.4	<0.5	0.54	<0.50	140
	6/17/2003	178.20	9.30	168.90	520	17	<5	5.3	<5	130

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-4	10/5/1992	177.73	10.33	167.40	98	7.2	1.3	1.1	6.1	NA
	4/1/1993	177.73	7.88	169.85	550	93	20	23	33	NA
	6/29/1993	177.66	8.33	169.33	150	23	0.6	5.4	0.5	54
	9/23/1993	177.66	10.05	167.61	110	14	1.7	3.2	4.6	NA
	12/10/1993	177.66	8.95	168.71	110	21	7.2	4.2	10	28.75
	2/17/1994	177.66	8.65	169.01	210	26	1.2	4.7	11	113
	8/8/1994	177.66	9.76	167.90	76	9.6	<0.5	2	<0.5	62
	10/12/1994	177.66	9.62	168.04	<50	<0.5	<0.5	<0.5	<0.5	44
	1/19/1995	177.66	6.97	170.69	140	56	14	24	23	NA
	5/2/1995	177.66	7.85	169.81	130	21	2.8	8.6	8.2	NA
	7/28/1995	177.66	9.20	168.46	<50	<0.5	<0.5	<0.5	<1	NA
	11/17/1995	177.66	9.68	167.98	<50	<0.5	0.6	<0.5	<1	18
	2/7/1996	177.66	6.59	171.07	100	2.6	<1	1.6	4.1	42
	4/23/1996	177.66	8.30	169.36	160	37	15	16	31	43
	7/9/1996	177.66	9.21	168.45	60	17	1.5	6.8	11.6	27
	10/10/1996	177.66	9.97	167.69	NA	NA	NA	NA	NA	NA
	10/11/1996	177.66	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	18
	1/20/1997	177.66	7.68	169.98	<50	<0.5	<1.0	<1.0	<1.0	130
	4/25/1997	177.66	9.15	168.51	<250	<2.5	<5.0	<5.0	<5.0	<50
	7/18/1997	177.66	9.71	167.95	<50	15	<10	<10	<10	<100
	10/27/1997	177.66	9.38	168.28	<250	<2.5	<5.0	<5.0	<5.0	<50
	1/22/1998	177.66	6.59	171.07	<50	<0.5	<1.0	<1.0	<1.0	<10
	4/23/1998	177.66	7.90	169.76	<250	<2.5	<5.0	<5.0	<5.0	<50
	7/29/1998	177.66	8.96	168.70	NA	NA	NA	NA	NA	NA
	7/30/1998	177.66	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	<10
	12/17/1998	177.66	8.32	169.34	NA	NA	NA	NA	NA	NA

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-4 cont.	3/19/1999	177.66	7.71	169.95	NA	NA	NA	NA	NA	NA
	6/23/1999	177.66	8.78	168.88	NA	NA	NA	NA	NA	NA
	9/27/1999	177.66	9.27	168.39	NA	NA	NA	NA	NA	NA
	12/9/1999	177.66	9.21	168.45	NA	NA	NA	NA	NA	NA
	3/9/2000	177.66	6.82	170.84	NA	NA	NA	NA	NA	NA
	6/8/2000	177.66	8.72	168.94	NA	NA	NA	NA	NA	NA
	9/18/2000	177.66	8.72	168.94	NA	NA	NA	NA	NA	NA
	12/14/2000	177.66	8.61	169.05	NA	NA	NA	NA	NA	NA
	3/21/2001	177.66	8.61	169.05	NA	NA	NA	NA	NA	NA
	6/18/2001	177.66	9.24	168.42	NA	NA	NA	NA	NA	NA
	9/18/2001	177.66	9.35	168.31	NA	NA	NA	NA	NA	NA
	12/13/2001	177.66	8.53	169.13	NA	NA	NA	NA	NA	NA
	3/14/2002	177.66	8.44	169.22	NA	NA	NA	NA	NA	NA
	6/19/2002	177.66	10.97	166.69	NA	NA	NA	NA	NA	NA
	9/10/2002	177.66	9.27	168.39	NA	NA	NA	NA	NA	NA
	12/16/2002	177.66	6.90	170.76	NA	NA	NA	NA	NA	NA
	3/11/2003	177.66	8.83	168.83	NA	NA	NA	NA	NA	NA
	6/17/2003	177.66	8.84	168.82	NA	NA	NA	NA	NA	NA
ESE-5	10/5/1992	176.08	9.22	166.86	1300	200	3.8	1.2	18	NA
	4/1/1993	176.08	7.02	169.06	13000	2200	26	730	1000	NA
	4/1/1993	176.08	NM	NM	13000	2500	25	740	1100	NA
	6/29/1993	176.08	10.21	165.87	7600	1500	9.3	170	100	NA
	9/23/1993	176.08	10.64	165.44	560	19	1.2	0.9	1.8	NA
	12/10/1993	176.08	9.42	166.66	1700	300	3	76	110	14.07

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-5 cont	2/7/1994	176.08	9.35	166.73	3500	640	7.8	90	130	45.13
	8/8/1994	176.08	8.76	167.32	2600	210	4.6	9.4	4.4	33
	8/8/1994	176.08	NM	NM	2500	230	4.6	13	4.8	32
	10/12/1994	176.08	8.95	167.13	5600	560	9.5	75	21	79.2
	10/12/1994	176.08	NM	NM	6000	550	10	78	22	77
	1/19/1995	176.08	5.40	170.68	1900	620	<5	95	15	NA
	1/19/1995	176.08	NM	NM	1600	620	<5	93	17	NA
	5/2/1995	176.08	6.48	169.60	5700	1100	<10	180	58	NA
	5/2/1995	176.08	NM	NM	5300	1100	<10	180	58	NA
	7/28/1995	176.08	7.97	168.11	520	15	<0.50	1.7	1.3	NA
	7/28/1995	176.08	NM	NM	460	7.2	<0.50	1.9	1.5	NA
	11/17/1995	176.08	8.39	167.69	850	39	1.8	7.6	2.7	24
	2/7/1996	176.08	4.71	171.37	4100	670	6	190	140	<50
	4/23/1996	176.08	7.35	168.73	3000	570	<5	79	100	84
	7/9/1996	176.08	9.40	166.68	620	150	1.7	9.3	6.4	25
	10/10/1996	176.08	9.04	167.04	1100	29	<5	<5	<5	<50
	10/10/1996	176.08	NM	NM	1100	31	<5	<5	<5	<50
	1/20/1997	176.08	5.82	170.26	2100	980	<25	280	80	<250
	1/20/1997	176.08	NM	NM	2700	910	8.8	280	84	180
	4/25/1997	176.08	7.24	168.84	NA	NA	NA	NA	NA	NA
	4/28/1997	176.08	NM	NM	<250	7.9	<5.0	<5.0	<5.0	<50
	7/18/1997	176.08	7.86	168.22	1200	<5	<10	<10	<10	<100
	7/18/1997	176.08	NM	NM	630	31	<5.0	<5.0	<5.0	130
	10/27/1997	176.08	7.91	168.17	<250	5.4	<5.0	<5.0	<5.0	<50

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-5 cont.	1/22/1998	176.08	4.64	171.44	170	7.7	<1.0	<1.0	<1.0	130
	4/23/1998	176.08	6.31	169.77	720	79	<5.0	9	<5.0	180
	7/29/1998	176.08	7.43	168.65	NA	NA	NA	NA	NA	NA
	7/30/1998	176.08	NM	NM	840	9.8	<1.0	4	<1.0	710
	12/17/1998	176.08	7.05	169.03	NA	NA	NA	NA	NA	NA
	3/19/1999	176.08	5.00	171.08	<250	<5.0	<5.0	<5.0	<5.0	<5.0
	6/23/1999	176.08	7.77	168.31	NA	NA	NA	NA	NA	NA
	9/27/1999	176.08	8.11	167.97	450	10	<5.0	6.3	<5.0	220
	12/9/1999	176.08	7.66	168.42	NA	NA	NA	NA	NA	NA
	3/9/2000	176.08	5.08	171.00	1700	170	2.5	45	6.4	140
	6/8/2000	176.08	7.36	168.72	NA	NA	NA	NA	NA	NA
	9/18/2000	176.08	7.71	168.37	130	0.65	<0.50	0.71	<0.50	51
	12/14/2000	176.08	2.36	173.72	NA	NA	NA	NA	NA	NA
	3/21/2001	176.08	7.42	168.66	1000	10.3	<2.5	11	<7.5	70.8
	6/18/2001	176.08	7.92	168.16	NA	NA	NA	NA	NA	NA
	9/18/2001	176.26	8.23	168.03	200	0.868	<0.50	0.55	<1.5	57.5
	12/13/2001	176.26	7.80	168.46	NA	NA	NA	NA	NA	NA
	3/14/2002	176.26	6.55	169.71	1300	17.1	1.35	15.4	1.42	37.4
	6/19/2002	176.26	7.83	168.43	NA	NA	NA	NA	NA	NA
	9/10/2002	176.26	8.22	168.04	680	9.9	<5.0	<5.0	<5.0	44
	12/16/2002	176.26	6.58	169.68	NA	NA	NA	NA	NA	NA
	3/11/2003	176.26	6.77	169.49	2100	14	<2.5	15	3	80
	6/17/2003	176.26	6.75	169.51	NA	NA	NA	NA	NA	NA
	9/17/2003	176.26	8.48	167.78	970	10 C	<0.5	<0.5	5.3	34
	12/9/2003	176.26	7.32	168.94	700	6.5	<0.5	3.1	2.7 C	34

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
ESE-5 cont.	2/26/2004	176.26	5.21	171.05	2400 H	41	2.8 C	18	2.4 C	29
	5/21/2004	176.26	7.50	168.76	1500	2.6 C	<0.5	2.1 C	2.1 C	25
	8/10/2004	178.80	8.28	170.52	680	<0.5	<0.5	<0.5	<0.5	33
	10/19/2004	178.80	8.26	170.54	380	<0.5	<0.5	<0.5	1.4	39
	1/14/2005	178.80	5.16	173.64	2400	18	1.4	22	2.1	26
	4/14/2005	178.80	6.13	172.67	4800	7.75	1.26	14.3	<1.0	23.1
	7/7/2005	178.80	7.52	171.28	3240	0.78	<2.0	1.18	<1.0	36.6
	11/15/2005	178.80	7.85	170.95	1190	0.51	<2.0	<0.5	<1.0	30
	2/8/2006	178.80	5.83	172.97	2510	1.91	<2.0	2.82	<1.0	20.7
	4/27/2006	178.80	5.71	173.09	4,700	2.76	<2.0	4.77	<1.0	28.3
	8/1/2006	178.80	7.71	171.09	1,890	0.7	<2.0	0.75	<1.0	24.7
	10/19/2006	178.80	8.00	170.80	474	<0.5	<2.0	3.39	<1.0	29
	1/12/2007	178.80	7.41	171.39	868	2.18	<2.0	2.66	<2.0	16.3
	4/17/2007	178.80	7.51	171.29	1,240	10.2	<2.0	10.4	2.37	17.2
	7/17/2007	178.80	7.47	171.33	836	3.1	<2.0	4.91	2.35	25.8
	10/16/2007	178.80	6.26	172.54	2,120	2.5	<2.0	6.19	2.61	17.5
	1/17/2008	178.80	6.59	172.21	2,730	5.74	<2.0	14.3	<2.0	13.1
	4/17/2008	178.80	6.81	171.99	2,770	4.7	<2.0	15.9	<2.0	<0.5
	7/16/2008	178.80	7.76	171.04	2,160	0.9	<2.0	1.1	<2.0	6.28
	10/14/2008	178.80	8.40	170.40	1,300	<0.5	<0.5	0.6	<0.5	9.9
	1/6/2009	178.80	7.66	171.14	1,100 [Y]	0.61	<0.5	1.6	<0.5	8
	4/6/2009	178.80	7.79	171.01	1,900 [Y]	4.6	<0.5	9.3	0.59	5.3
	7/7/2009	178.80	7.84	170.96	2,700 [Y]	3.0	<0.5	2.3	<0.5	6.6
	1/27/2010	178.80	4.82	173.98	1,300 [Y]	0.76	<0.5	1.0	<0.5	3.5
	7/26/2010	**178.80**	**7.01**	**171.79**	**1,800**	**0.75**	**<0.5**	**1.8**	**<0.5**	**2**
ESE-5R	**8/30/2010**	**178.64**	**8.97**	**169.67**	**75**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**7.3**
MW-6	7/28/1995	179.24	10.00	169.24	<50	<0.50	<0.50	<0.50	<1.0	NA
	11/17/1995	179.24	10.44	168.80	<50	<0.50	<0.50	<0.50	<1.0	<5.0

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
MW-6 cont.	2/7/1996	179.24	7.68	171.56	<50	<0.5	<1.0	<1.0	<1.0	<10
	4/23/1996	179.24	9.33	169.91	<50	<0.5	<1.0	<1.0	<1.0	<10
	7/9/1996	179.24	10.10	169.14	<50	<0.5	<1.0	<1.0	<1.0	<10
	10/10/1996	179.24	11.00	168.24	<50	<0.5	<1.0	<1.0	<1.0	<10
	1/20/1997	179.24	8.70	170.54	<50	<0.5	<1.0	<1.0	<1.0	<10
	4/25/1997	179.24	10.16	169.08	<50	<0.5	<1.0	<1.0	<1.0	<10
	7/18/1997	179.24	10.66	168.58	<50	<0.5	<1.0	<1.0	<1.0	<10
	10/27/1997	179.24	10.25	168.99	<50	<0.5	<1.0	<1.0	<1.0	<10
	1/22/1998	179.24	7.76	171.48	<50	<0.5	<1.0	<1.0	<1.0	<10
	4/23/1998	179.24	9.10	170.14	<50	<0.5	<1.0	<1.0	<1.0	<10
	7/29/1998	179.24	10.40	168.84	NA	NA	NA	NA	NA	NA
	7/30/1998	179.24	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	<10
	12/17/1998	179.24	9.40	169.84	NA	NA	NA	NA	NA	NA
	3/19/1999	179.24	9.10	170.14	NA	NA	NA	NA	NA	NA
	6/23/1999	179.24	9.79	169.45	NA	NA	NA	NA	NA	NA
	9/27/1999	179.24	10.10	169.14	NA	NA	NA	NA	NA	NA
	12/9/1999	179.24	9.97	169.27	NA	NA	NA	NA	NA	NA
	3/9/2000	179.24	8.56	170.68	NA	NA	NA	NA	NA	NA
	6/8/2000	179.24	9.11	170.13	NA	NA	NA	NA	NA	NA
	9/18/2000	179.24	9.77	169.47	NA	NA	NA	NA	NA	NA
	12/14/2000	179.24	9.17	170.07	NA	NA	NA	NA	NA	NA
	3/21/2001	179.24	9.82	169.42	NA	NA	NA	NA	NA	NA
	6/18/2001	179.24	10.19	169.05	NA	NA	NA	NA	NA	NA
	9/18/2001	179.24	10.25	168.99	NA	NA	NA	NA	NA	NA
	12/13/2001	179.24	9.75	169.49	NA	NA	NA	NA	NA	NA
	3/14/2002	179.24	9.53	169.71	NA	NA	NA	NA	NA	NA
	6/19/2002	179.24	9.87	169.37	NA	NA	NA	NA	NA	NA
	9/10/2002	179.24	9.49	169.75	NA	NA	NA	NA	NA	NA
	12/16/2002	179.24	8.39	170.85	NA	NA	NA	NA	NA	NA

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
MW-6 cont.	3/11/2003	179.24	9.40	169.84	NA	NA	NA	NA	NA	NA
	6/17/2003	179.24	9.71	169.53	NA	NA	NA	NA	NA	NA
	9/17/2003	179.24	10.21	169.03	<50	<0.5	<0.5	<0.5	<0.5	<2.0
	12/9/2003	179.24	9.66	169.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	2/26/2004	179.24	7.83	171.41	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	5/21/2004	179.24	9.75	169.49	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	8/10/2004	181.80	10.28	171.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/19/2004	181.80	9.91	171.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/14/2005	181.80	8.40	173.40	<50	0.6	<0.5	<0.5	<0.5	<0.5
	4/14/2005	181.80	9.04	172.76	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	7/7/2005	181.80	9.94	171.86	<200	<0.5	<2.00	<0.5	<1.00	<0.5
	11/15/2005	181.80	9.98	171.82	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	2/8/2006	181.80	9.91	171.89	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	4/27/2006	181.80	9.54	172.26	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	8/1/2006	181.80	9.61	172.19	<50	<0.5	<2.0	<0.5	<1.0	0.51
	10/19/2006	181.80	10.23	171.57	<50	<0.5	<2.0	<0.5	<1.0	0.63
	1/12/2007	181.80	10.13	171.67	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/17/2007	181.80	10.22	171.58	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/17/2007	181.80	9.76	172.04	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/16/2007	181.80	9.82	171.98	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	1/17/2008	181.80	9.43	172.37	<50	<0.50	<2.0	<0.50	<2.0	<0.5
	4/17/2008	181.80	9.54	172.26	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/16/2008	181.80	9.80	172.00	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/14/2008	181.80	10.48	171.32	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/6/2009	181.80	10.01	171.79	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	4/6/2009	181.80	10.15	171.65	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/7/2009	181.80	10.28	171.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/27/2010	181.80	8.28	173.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2010	**181.80**	**9.64**	**172.16**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-6R	**8/30/2010**	**181.34**	**9.55**	**171.79**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
MW-7	7/28/1995	176.55	9.25	167.30	<50	0.54	0.54	<0.50	<1.0	NA
	11/17/1995	176.55	9.73	166.82	1100	<10	<10	<10	<20	4000
	2/7/1996	176.55	6.48	170.07	610	<0.50	<1.0	<1.0	<1.0	2500
	2/7/1996	176.55	NM	NM	280	<0.50	<1.0	<1.0	<1.0	2600
	4/23/1996	176.55	8.37	168.18	110	<0.50	<1.0	<1.0	<1.0	3500
	4/23/1996	176.55	NM	NM	230	<0.50	<1.0	<1.0	<1.0	3500
	7/9/1996	176.55	9.24	167.31	230	<0.50	<1.0	<1.0	<1.0	4296
	7/9/1996	176.55	NM	NM	220	<0.50	<1.0	<1.0	<1.0	4400
	10/10/1996	176.55	10.05	166.50	NA	NA	NA	NA	NA	NA
	10/11/1996	176.55	NM	NM	1600	<0.50	<1.0	<1.0	<1.0	3000
	1/20/1997	176.55	7.51	169.04	<50	0.63	<1.0	<1.0	<1.0	2600
	4/25/1997	176.55	8.79	167.76	NA	NA	NA	NA	NA	NA
	4/28/1997	176.55	NM	NM	1500	<0.50	<1.0	<1.0	<1.0	3600
	4/28/1997	176.55	NM	NM	7700	3500	<25	74	37	<250
	7/18/1997	176.55	9.50	167.05	1400	<0.50	<1.0	<1.0	<1.0	2600
	10/27/1997	176.55	9.19	167.36	420	<0.50	<1.0	<1.0	<1.0	560
	1/22/1998	176.55	6.45	170.10	3100	<0.50	<1.0	<1.0	1.4	2300
	4/23/1998	176.55	8.02	168.53	3800	<0.50	<1.0	<1.0	<1.0	3800
	7/29/1998	176.55	8.88	167.67	NA	NA	NA	NA	NA	NA
	7/30/1998	176.55	NM	NM	500	<2.5	<5.0	<5.0	<5.0	<50
	7/30/1998	176.55	NM	NM	4700	<12	<25	<25	<25	4700
	12/17/1998	176.55	8.62	167.93	NA	NA	NA	NA	NA	NA
	3/19/1999	176.55	7.52	169.03	3800	<1.0	<1.0	<1.0	<1.0	3800
	6/23/1999	176.55	9.63	166.92	NA	NA	NA	NA	NA	NA
	9/27/1999	176.55	9.39	167.16	140	<10	<10	<10	<10	3800
	12/9/1999	176.55	9.94	166.61	NA	NA	NA	NA	NA	NA

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
MW-7 cont.	3/9/2000	176.55	6.72	169.83	<50	<0.50	<0.50	<0.50	<0.50	1400
	6/8/2000	176.55	7.38	169.17	NA	NA	NA	NA	NA	NA
	9/18/2000	176.55	9.18	167.37	190	<0.50	<0.50	<0.50	<0.50	580
	12/14/2000	176.55	8.13	168.42	NA	NA	NA	NA	NA	NA
	3/21/2001	176.55	8.98	167.57	1300	<0.50	<0.50	<0.50	<1.5	1460
	6/18/2001	176.55	9.68	166.87	NA	NA	NA	NA	NA	NA
	9/18/2001	176.55	9.80	166.75	<0.50	<0.50	<0.50	<0.50	<1.5	94.9
	12/13/2001	176.55	9.26	167.29	NA	NA	NA	NA	NA	NA
	3/14/2002	176.55	8.69	167.86	800	<0.50	<0.50	<0.50	<1.0	952
	6/19/2002	176.55	9.06	167.49	NA	NA	NA	NA	NA	NA
	9/10/2002	176.55	9.23	167.32	260	<2.0	<2.0	<2.0	<2.0	580
	12/16/2002	176.55	7.77	168.78	NA	NA	NA	NA	NA	NA
	3/11/2003	176.55	8.30	168.25	620	<2.5	<2.5	<2.5	<2.5	1100
	6/17/2003	176.55	9.51	167.04	NA	NA	NA	NA	NA	NA
	9/17/2003	176.55	9.52	167.03	<50	<0.5	<0.5	<0.5	<0.5	460
	12/9/2003	176.55	8.99	167.56	<50	<0.5	<0.5	<0.5	<0.5	420
	2/26/2004	176.55	6.55	170.00	<50	<0.5	<0.5	<0.5	<0.5	330
	5/21/2004	176.55	8.90	167.65	<50	<0.5	<0.5	<0.5	<0.5	630
	8/10/2004	179.11	9.58	169.53	<50	<0.5	<0.5	<0.5	<0.5	750
	10/19/2004	179.11	9.20	169.91	<50	<0.5	<0.5	<0.5	<0.5	550
	1/14/2005	179.11	7.25	171.86	<50	<2.0	<2.0	<2.0	<2.0	250
	4/14/2005	179.11	7.94	171.17	<200	<0.5	<0.5	<0.5	<1.0	285
	7/7/2005	179.11	9.08	170.03	<400	<1.0	<4.0	<1.0	<2.0	452
	11/15/2005	179.11	9.14	169.97	<50	<0.5	<2.0	<0.5	<1.0	110
	2/8/2006	179.11	7.93	171.18	<50	<0.5	<2.0	<0.5	<1.0	101
	4/27/2006	179.11	8.40	170.71	<50	<0.5	<2.0	<0.5	<1.0	131
	8/1/2006	179.11	8.89	170.22	<50	<0.5	<2.0	<0.5	<1.0	68.6
	10/19/2006	179.11	9.44	169.67	<50	<0.5	<2.0	<0.5	<1.0	65.5

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
MW-7 cont.	1/12/2007	179.11	8.91	170.20	<50	<0.5	<2.0	<0.5	<2.0	38
	4/17/2007	179.11	8.58	170.53	<50	<0.5	<2.0	<0.5	<2.0	24.7
	7/17/2007	179.11	9.04	170.07	<50	2.07	<2.0	<0.5	<2.0	29.3
	10/6/2007	179.11	7.88	171.23	<50	0.88	<2.0	<0.5	<2.0	5.26
	1/17/2008	179.11	NM	NM	NA	NA	NA	NA	NA	NA
	4/17/2008	179.11	8.85	170.26	<50	1.87	<2.0	<0.5	<2.0	21.6
	7/16/2008	179.11	9.34	169.77	<50	<0.5	<2.0	<0.5	<2.0	11.4
	10/14/2008	179.11	10.06	169.05	<50	0.78	<0.5	<0.5	<0.5	12
	1/6/2009	179.11	9.12	169.99	<50	<0.5	<0.5	<0.5	<0.5	14
	4/6/2009	179.11	9.28	169.83	<50	<0.5	<0.5	<0.5	<0.5	13
	7/7/2009	179.11	9.59	169.52	<50	<0.5	<0.5	<0.5	<0.5	15
	1/27/2010	179.11	6.98	172.13	<50	<0.5	<0.5	<0.5	<0.5	6.3
	7/26/2010	**179.11**	**9.11**	**170.00**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**6**
MW-7R	**8/30/2010**	**179.14**	**9.39**	**169.75**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**24**
MW-8	7/28/1995	176.34	7.80	168.54	1,100	<2.5	<2.5	<2.5	<5.0	NA
	11/17/1995	176.34	8.29	168.05	8,300	75	5.3	670	240	140
	2/7/1996	176.34	4.99	171.35	2,300	33	<10	190	216	<100
	4/23/1996	176.34	6.09	170.25	2,000	390	<10	150	26	<250
QC-2	4/1/1993	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	6/29/1993	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	9/23/1993	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	12/10/1993	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/17/1994	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	8/8/1994	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	10/12/1994	NM	NM	NM	<50	<0.5	<0.5	<0.5	<0.5	NA
	1/19/1995	NM	NM	NM	<50	<0.5	<0.5	<0.5	<1.0	NA
	5/2/1995	NM	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	NA
	7/28/1995	NM	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	NA
	11/17/1995	NM	NM	NM	<50	<0.50	<0.50	<0.50	<1.0	<5.0

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
QC-2 cont.	2/7/1996	NM	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	<10
	4/23/1996	NM	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	<10
	7/9/1996	NM	NM	NM	<50	<0.5	<1.0	<1.0	<1.0	<10
SOMA-1	8/10/2004	180.95	11.53	169.42	84	<0.5	<0.5	1.5 C	2.2	2100
	10/19/2004	180.95	10.41	170.54	56	<0.5	<0.5	1.3 C	1.4 C	1600
	1/14/2005	180.95	9.68	171.27	58	<3.1	<3.1	<3.1	<3.1	330
	4/14/2005	180.95	9.37	171.58	<2200	<5.5	<5.5	<5.5	<11	668
	7/7/2005	180.95	10.21	170.74	<860	<2.15	<8.6	<2.15	<4.3	591
	11/15/2005	180.95	10.70	170.25	<50	<0.5	<2.0	1.1	<1.0	256
	2/8/2006	180.95	9.30	171.65	127	1.56	<2.0	3.23	3.12	176
	4/27/2006	180.95	9.64	171.31	81.6	1.14	<2.0	2.8	<1.0	189
	8/1/2006	180.95	10.25	170.70	<50	1.07	<2.0	1.46	<1.0	122
	10/19/2006	180.95	10.73	170.22	<50	0.68	<2.0	4.17	<1.0	116
	1/12/2007	180.95	10.38	170.57	<50	<0.5	<2.0	<0.5	<2.0	68.7
	4/17/2007	180.95	10.09	170.86	<50	5.76	<2.0	4.33	2.59	33.4
	7/17/2007	180.95	10.35	170.60	<50	14.8	<2.0	4.63	3.32	39.4
	10/16/2007	180.95	9.71	171.24	<50	5.7	<2.0	<0.5	<2.0	14.2
	1/17/2008	180.95	10.01	170.94	<50	1.02	<2.0	<0.5	<2.0	12.8
	4/17/2008	180.95	10.17	170.78	<50	3.13	<2.0	<0.5	<2.0	12.8
	7/16/2008	180.95	10.63	170.32	<50	10.6	<2.0	<0.5	<2.0	15.8
	10/14/2008	180.95	11.36	169.59	<50	1.1	<0.5	<0.5	<0.5	15
	1/6/2009	180.95	10.81	170.14	<50	0.6	<0.5	<0.5	<0.5	14
	4/6/2009	180.95	10.69	170.26	<50	<0.5	<0.5	<0.5	<0.5	12
	7/7/2009	180.95	11.01	169.94	<50	0.57	<0.5	1.2	0.91	12
	1/27/2010	180.95	8.81	172.14	<50	<0.5	<0.5	<0.5	<0.5	9.9
	7/26/2010	**180.95**	**10.49**	**170.46**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**5.9**
SOMA-2	8/10/2004	178.99	10.69	168.30	<50	<0.5	<0.5	<0.5	<0.5	0.8
	10/19/2004	178.99	10.75	168.24	<50	<0.5	<0.5	<0.5	<0.5	2.4

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
SOMA-2 cont	1/14/2005	178.99	9.45	169.54	<50	<0.5	<0.5	<0.5	<0.5	1.1
	4/14/2005	178.99	10.46	168.53	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	7/7/2005	178.99	11.81	167.18	<200	<0.5	<2.0	<0.5	<1.0	<0.5
	11/15/2005	178.99	12.02	166.97	<50	<0.5	<2.0	<0.5	<1.0	1.61
	2/8/2006	178.99	11.88	167.11	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	4/27/2006	178.99	10.95	168.04	<50	<0.5	<2.0	<0.5	<1.0	<0.5
	8/1/2006	178.99	11.85	167.14	<50	<0.5	<2.0	<0.5	<1.0	1.11
	10/19/2006	178.99	10.62	168.37	<50	<0.5	<2.0	<0.5	<1.0	1.36
	1/12/2007	178.99	10.26	168.73	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/17/2007	178.99	11.88	167.11	<50	<0.5	<2.0	<0.5	<2.0	0.87
	7/17/2007	178.99	10.84	168.15	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/16/2007	178.99	9.69	169.30	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	1/17/2008	178.99	9.62	169.37	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	4/17/2008	178.99	10.06	168.93	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	7/16/2008	178.99	10.63	168.36	<50	<0.5	<2.0	<0.5	<2.0	<0.5
	10/14/2008	178.99	11.26	167.73	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/6/2009	178.99	10.22	168.77	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	4/6/2009	178.99	10.38	168.61	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/7/2009	178.99	10.40	168.59	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/27/2010	178.99	8.19	170.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	7/26/2010	**178.99**	**10.24**	**168.75**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
SOMA-3	8/10/2004	176.81	9.97	166.84	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	10/19/2004	176.81	9.59	167.22	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	1/14/2005	176.81	8.23	168.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
	4/14/2005	176.81	8.64	168.17	<200	<0.5	<0.5	<0.5	<1.0	<0.5
	7/7/2005	176.81	9.60	167.21	<200	<0.5	<2.0	<0.5	<1.0	<0.5
	11/15/2005	176.81	10.01	166.80	<50	<0.5	<2.0	<0.5	<1.0	5.1
	2/8/2006	176.81	8.80	168.01	<50	<0.5	<2.0	<0.5	<1.0	7.16
	4/27/2006	176.81	9.00	167.81	<50	<0.5	<2.0	<0.5	<1.0	14.2
	8/1/2006	176.81	9.91	166.90	<50	<0.5	<2.0	<0.5	<1.0	7.29
	10/19/2006	176.81	10.21	166.60	<50	<0.5	<2.0	<0.5	<1.0	41.4

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
SOMA-3 cont.	1/12/2007	176.81	9.73	167.08	<50	<0.5	<2.0	<0.5	<2.0	20.9
	4/17/2007	176.81	9.81	167.00	<50	<0.5	<2.0	<0.5	<2.0	32.1
	7/17/2007	176.81	10.06	166.75	<50	<0.5	<2.0	<0.5	<2.0	23.6
	10/16/2007	176.81	9.54	167.27	<50	<0.5	<2.0	<0.5	<2.0	22.3
	1/17/2008	176.81	9.06	167.75	<50	<0.5	<2.0	<0.5	<2.0	11.1
	4/17/2008	176.81	9.57	167.24	<50	<0.5	<2.0	<0.5	<2.0	23.7
	7/16/2008	176.81	10.25	166.56	<50	<0.5	<2.0	<0.5	<2.0	10.6
	10/14/2008	176.81	10.76	166.05	<50	<0.5	<0.5	<0.5	<0.5	19
	1/6/2009	176.81	9.53	167.28	<50	<0.5	<0.5	<0.5	<0.5	1.1
	4/6/2009	176.81	9.65	167.16	<50	<0.5	<0.5	<0.5	<0.5	5.7
	7/7/2009	176.81	10.19	166.62	<50	<0.5	<0.5	<0.5	<0.5	6
	1/27/2010	176.81	7.80	169.01	<50	<0.5	<0.5	<0.5	<0.5	56
	7/26/2010	**176.81**	**9.67**	**167.14**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**9.8**
SOMA-4	8/10/2004	176.94	9.44	167.50	140	0.98	<0.5	7.8	<0.5	11
	10/19/2004	176.94	9.91	167.03	150	<0.5	<0.5	10	<0.5	8.8
	1/14/2005	176.94	8.36	168.58	500	3.7	<0.5	53	<0.5	7.6
	4/14/2005	176.94	7.89	169.05	<200	0.74	<0.5	3.21	<1.0	5.65
	7/7/2005	176.94	11.62	165.32	<200	<0.5	<2.0	0.56	<1.0	7.09
	11/15/2005	176.94	9.33	167.61	<50	<0.5	<2.0	<0.5	<1.0	8.6
	2/8/2006	176.94	9.18	167.76	55.8	<0.5	<2.0	0.85	<1.0	10.4
	4/27/2006	176.94	8.75	168.19	172	1.35	<2.0	8.83	<1.0	11.7
	8/1/2006	176.94	9.52	167.42	<50	0.52	<2.0	1.53	<1.0	14.1
	10/19/2006	176.94	9.51	167.43	<50	<0.5	<2.0	<0.5	<1.0	19.2
	1/12/2007	176.94	8.98	167.96	<50	<0.5	<2.0	<0.5	<2.0	20.4
	4/17/2007	176.94	8.96	167.98	<50	<0.5	<2.0	4.33	<2.0	15.8
	7/17/2007	176.94	9.31	167.63	<50	<0.5	<2.0	4.47	<2.0	13.3
	10/16/2007	176.94	8.96	167.98	<50	<0.5	<2.0	4.5	<2.0	8.57
	1/17/2008	176.94	8.84	168.10	<50	<0.5	<2.0	<0.5	<2.0	8.87
	4/17/2008	176.94	9.44	167.50	<50	<0.5	<2.0	<0.5	<2.0	1.22
	7/16/2008	176.94	9.52	167.42	<50	<0.5	<2.0	<0.5	<2.0	8.58
	10/14/2008	176.94	9.98	166.96	<50	<0.5	<0.5	<0.5	<0.5	9.7

Table 3
Historical Groundwater Elevations & Analytical Data
TPH-g, BTEX, MtBE
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	Top of casing elevation [1] (feet)	Depth to Groundwater (feet)	Groundwater Elevation (feet)	TPH-g (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethyl benzene (µg/L)	Total Xylenes (µg/L)	MtBE (µg/L) 8260B
SOMA-4 cont	1/6/2009	176.94	9.29	167.65	<50	<0.5	<0.5	<0.5	<0.5	10
	4/6/2009	176.94	9.31	167.63	<50	<0.5	<0.5	<0.5	<0.5	5.3
	7/7/2009	176.94	9.54	167.40	<50	<0.5	<0.5	<0.5	<0.5	7
	1/27/2010	176.94	7.35	169.59	<50	<0.5	<0.5	<0.5	<0.5	5.1
	7/26/2010	**176.94**	**9.13**	**167.81**	**220**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**2.3**
SOMA-5	1/27/2010	180.31	7.94	172.37	14,000	2,600	1.5	800	914	190
	7/26/2010	**180.31**	**9.99**	**170.32**	**14,000**	**3,300**	**<20**	**1,100**	**1,340**	**150**
SOMA-7	**8/30/2010**	**178.54**	**7.63**	**170.91**	**2,900**	**190**	**3.7**	**74**	**19.80**	**8.4**
SOMA-8	**8/30/2010**	**181.57**	**9.89**	**171.68**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Equipment Blanks										
EB-PMP	1/17/2008	NA	NA	NA	<50	<0.5	<2.0	<0.5	<2.0	<0.5
EB-PRB	1/17/2008	NA	NA	NA	<50	<0.5	<2.0	<0.5	<2.0	<0.5
EB-PMP2	1/17/2008	NA	NA	NA	<50	<0.5	<2.0	<0.5	<2.0	<0.5
EB-PRB2	1/17/2008	NA	NA	NA	<50	<0.5	<2.0	<0.5	<2.0	<0.5
ESL - Drinking Water					**100**	**1**	**40**	**30**	**20**	**5**
ESL - Non-Drinking Water					**210**	**46**	**130**	**43**	**100**	**1,800**

Notes:
< : Not detected above laboratory reporting limit.
1 Top of Casing Elevations were resurveyed by Kier & Wright Engineers Surveyors of Pleasanton, CA on June 21, 2004.

C: Presence confirmed, but RPD between columns exceeds 40%.
H: Heavier hydrocarbons contributed to the quantitation.
NA: Not Applicable/Not Analyzed. Due to construction activities in the Third Quarter 2003, which consisted of the replacement of the USTs and dispensers, wells ESE-1 & ESE-2 were inaccessible. Well ESE-2 also inaccessible during the First Quarter 2007. Well MW-7 had a car parked over it and was inaccessible during the First Quarter 2008 monitoring event
NM: Not Measured
Well ESE-2 was covered over with dirt during the First Quarter 2007 monitoring event.
Well MW-7 had a car parked over it and was inaccessible during the First Quarter 2008 monitoring event.
Equipment Blanks (EB-PRB & EB-PMP) were done to make sure decon efforts were adequate.
Z: Sample exhibits unknown single peak or peaks.
The Third Quarter 2003 was the first time that SOMA analyzed groundwater samples at the site.
The Third Quarter 2004 was the first time that SOMA analyzed groundwater samples at wells SOMA-1 to SOMA-4.
August 2010, reconstruct ESE-1R, ESE-2R, ESE-5R, MW-6R, MW-7R; install SOMA-7, SOMA-8. 8/30/10 investigation sampling
ESL - Environmental Screening Level, California Regional Water Control Board, Interim Final November 2007, revised May 2008

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
ESE-1	6/17/2003	<400	<10	<10	18	NA	NA	NA
	9/17/2003	NA	NA	NA	NA	NA	NA	NA
	12/9/2003	290	<1.0	<1.0	9.5	<2,000	<1.0	<1.0
	2/26/2004	410	<0.5	<0.5	9.7	<1000	<0.5	<0.5
	5/21/2004	190	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	8/10/2004	180	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	10/19/2004	270	<0.7	<0.7	4.4	<1400	9.9	<0.7
	1/14/2005	280	<1.3	<1.3	<1.3	<2,500	<1.3	<1.3
	4/14/2005	144	<2.15	<2.15	<8.6	<4300	<2.15	<2.15
	7/7/2005	119	<2.15	<2.15	<8.6	<4300	<2.15	<2.15
	11/15/2005	107	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	181	<2.15	<2.15	<8.6	<4300	<2.15	<2.15
	4/27/2006	261	<2.15	<2.15	<8.6	<4300	<2.15	<2.15
	8/1/2006	165	<1.0	<1.0	<4.0	<2000	<1.0	<1.0
	10/19/2006	154	<1.0	<1.0	<4.0	<2000	<1.0	<1.0
	1/12/2007	103	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	80.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	128	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	98.7	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	61.5	<0.5	<0.5	2.52	<1000	<0.5	<0.5
	4/17/2008	76.4	<0.5	<0.5	<2.0	<1000	59.2	<0.5
	7/16/2008	179	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	87	<0.5	<0.5	2.6	<1000	<0.5	<0.5
	1/6/2009	93	<1.0	<1.0	<1.0	<2000	<1.0	<1.0
	4/6/2009	130	<1.0	<1.0	<1.0	<2000	<1.0	<1.0
	7/7/2009	100	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	1/27/2010	200	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	7/26/2010	**110**	**<0.5**	**<0.5**	**<0.5**	**<1,000**	**<0.5**	**<0.5**
ESE-1R	**8/30/2010**	**83**	**<0.71**	**<0.71**	**3.4**	**<1,400**	**<0.71**	**<0.71**

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
ESE-2	6/17/2003	<4000	<100	<100	<100	NA	NA	NA
	9/17/2003	NA	NA	NA	NA	NA	NA	NA
	12/9/2003	500	<13	<13	77	<25,000	<13	<13
	2/26/2004	1200	<0.5	<0.5	92	<1000	<0.5	<0.5
	5/21/2004	2400	<10	<10	25	<20,000	<10	<10
	8/10/2004	2300	<2.5	<2.5	12	<5000	<2.5	<2.5
	10/19/2004	1800	<3.6	<3.6	8.6	<7100	<3.6	<3.6
	1/14/2005	470	<8.3	<8.3	28	<17,000	<8.3	<8.3
	4/14/2005	<10.8	<2.15	<2.15	17.9	<4300	<2.15	<2.15
	7/7/2005	109	<2.15	<2.15	9.7	<4300	<2.15	<2.15
	11/15/2005	64.7	<0.5	<0.5	3.43	<1000	<0.5	<0.5
	2/8/2006	46.4	<2.15	<2.15	11	<4300	<2.15	<2.15
	4/27/2006	47.7	<1.0	<1.0	8.29	<2000	<1.0	<1.0
	8/1/2006	20.6	<1.0	<1.0	4.67	<2000	<1.0	<1.0
	10/19/2006	28.9	<0.5	<0.5	4.55	<1000	<0.5	<0.5
	1/12/2007	NA	NA	NA	NA	NA	NA	NA
	4/17/2007	60.8	<0.5	<0.5	3.85	<1000	<0.5	<0.5
	7/17/2007	62.3	<0.5	<0.5	2.95	<1000	<0.5	<0.5
	10/16/2007	46	<0.5	<0.5	2.21	<1000	<0.5	<0.5
	1/17/2008	18.8	<0.5	<0.5	3.38	<1000	<0.5	<0.5
	4/17/2008	18.8	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	9.95	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	0.85	<1000	<0.5	<0.5
	1/6/2009	27	<0.5	<0.5	0.83	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	18	<0.5	<0.5	0.56	<1,000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1,000**	**<0.5**	**<0.5**
ESE-2R	**8/30/2010**	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1,000**	**<0.5**	**<0.5**
ESE-3	6/17/2003	<200	<5.0	<5.0	<5.0	NA	NA	NA
ESE-5	9/17/2003	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	12/9/2003	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	2/26/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	5/21/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	8/10/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	10/19/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
ESE-5 cont.	1/14/2005	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/14/2005	17	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/7/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/15/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	8.7	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	15.4	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	11.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	17.2	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	5.44	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
ESE-5R	**8/30/2010**	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
MW-6	9/17/2003	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	12/9/2003	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	2/26/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	5/21/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	8/10/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	10/19/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/14/2005	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/14/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/7/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/15/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
MW-6 contd.	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
MW-6R	**8/30/2010**	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
MW-7	9/17/2003	<10	<0.5	<0.5	9.8	<1000	<0.5	<0.5
	12/9/2003	<25	<1.3	<1.3	8.1	<2500	<1.3	<1.3
	2/26/2004	<10	<0.5	<0.5	9.9	<1000	<0.5	<0.5
	5/21/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	8/10/2004	<25	<1.3	<1.3	19	<2500	<1.3	<1.3
	10/19/2004	<100	<5.0	<5.0	11	<10,000	<5.0	<5.0
	1/14/2005	<40	<2.0	<2.0	5.1	<4,000	<2.0	<2.0
	4/14/2005	2.62	<0.5	<0.5	4.57	<1000	<0.5	<0.5
	7/7/2005	55.6	<1.0	<1.0	10.2	<2000	<1.0	<1.0
	11/15/2005	10.6	<0.5	<0.5	2.07	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	2.19	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	2.63	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	11.6	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	13.3	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	NA	NA	NA	NA	NA	NA	NA
	4/17/2008	8.63	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
MW-7R	**8/30/2010**	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
SOMA-1	8/10/2004	2300	<6.3	<6.3	53	<13000	<6.3	<6.3
	10/19/2004	2400	<13	<13	36	<25,000	<13	<13

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
SOMA-1 contd.	1/14/2005	530	<3.1	<3.1	7.1	<6,300	<3.1	<3.1
	4/14/2005	<27.5	<5.5	<5.5	<22	<11000	<5.5	<5.5
	7/7/2005	2180	<2.15	<2.15	12.9	<4300	<2.15	<2.15
	11/15/2005	792	<0.5	<0.5	5.01	<1000	<0.5	<0.5
	2/8/2006	618	<0.5	<0.5	3.67	<1000	<0.5	<0.5
	4/27/2006	983	<0.5	<0.5	3.48	<1000	<0.5	<0.5
	8/1/2006	639	<0.5	<0.5	2.27	<1000	<0.5	<0.5
	10/19/2006	603	<0.5	<0.5	2.25	<1000	<0.5	<0.5
	1/12/2007	396	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	148	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	555	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	65	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	29.6	<0.5	<0.5	2.06	<1000	<0.5	<0.5
	4/17/2008	339	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	264	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	250	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	180	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	120	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	250	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	310	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**68**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
SOMA-2	8/10/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	10/19/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/14/2005	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/14/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/7/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/15/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	14.6	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	2.58	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
SOMA-2 cont.	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
SOMA-3	8/10/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	10/19/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	1/14/2005	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	4/14/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/7/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/15/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	6.72	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	7.6	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	9.96	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2008	6.05	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	0.8	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
SOMA-4	8/10/2004	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	10/19/2004	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	1/14/2005	<10	<0.5	<0.5	<0.5	<1,000	<0.5	<0.5
	4/14/2005	<2.5	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/7/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	11/15/2005	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	2/8/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/27/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	8/1/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/19/2006	<10	<0.5	<0.5	<2.0	<1000	<0.5	<0.5

Table 4
Historical Groundwater Analytical Data
Gasoline Oxygenates & Lead Scavengers
3519 Castro Valley Blvd, Castro Valley, CA

Monitoring Well	Date	TBA (µg/L)	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	ETHANOL (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)
SOMA-4 contd	1/12/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2007	3.98	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/17/2007	6.31	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/16/2007	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	4/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	7/16/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
	10/14/2008	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	4/6/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/7/2009	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	1/27/2010	<10	<0.5	<0.5	<0.5	<1000	<0.5	<0.5
	7/26/2010	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1000**	**<0.5**	**<0.5**
SOMA-5	1/27/2010	500	<13	<13	<13	<25,000	<13	<13
	7/26/2010	**<400**	**<20**	**<20**	**<20**	**<40,000**	**<20**	**<20**
SOMA-7	**8/30/2010**	**<33**	**<1.7**	**<1.7**	**<1.7**	**<3,300**	**<1.7**	**<1.7**
SOMA-8	**8/30/2010**	**<10**	**<0.5**	**<0.5**	**<0.5**	**<1,000**	**<0.5**	**<0..5**
Equipment Blanks								
EB-PMP	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
EB-PRB	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
EB-PMP2	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
EB-PRB2	1/17/2008	<2.0	<0.5	<0.5	<2.0	<1000	<0.5	<0.5
ESL - Drinking Water		12	NA	NA	NA	NA	0.05	0.005
ESL - Non-Drinking Water		18,000	NA	NA	NA	NA	200	150

Notes:
< : Not detected above laboratory reporting limit.
NA: Not Analyzed. Due to construction activities in the Third Quarter 2003, which consisted of the replacement of the USTs and dispensers, wells ESE-1 & ESE-2 were inaccessible.
Well ESE-2 was inaccessible duirng the First Quarter 2007, dirt was covered over well
Well MW-7 had a car parked over it and was inaccessible during the First Quarter 2008 monitoring event.
The Third Quarter 2003 was the first time that SOMA analyzed groundwater samples at the Site.
The Third Quarter 2004 was the first time that SOMA analyzed groundwater samples at wells SOMA-1 to SOMA-4.

Gasoline Oxygenates:
TBA: tertiary butyl alcohol
DIPE: isopropyl ether
ETBE: ethyl tertiary butyl ether
TAME: methyl tertiary amyl ether
Ethanol

Lead Scavengers:
1,2-DCA: 1,2-Dichloroethane
EDB: 1,2-Dibromoethane

August 2010, reconstruct ESE-1R, ESE-2R, ESE-5R, MW-6R, MW-7R; install SOMA-7, SOMA-8. 8/30/10 investigation sampling

ESL - Environmental Screening Level, California Regional Water Control Board, Interim Final November 2007, revised May 2008

APPENDIX A
Site History and Previous Remediation Activities

Violation History

A Notice of Violation (NOV) was issued in June 1991 due to non-compliance issues at the station; a second NOV was issued in October 1991. An Unauthorized Release was detected during the 1992 Preliminary Site Assessment. A second Unauthorized Release was reported in May 2000, due to a leaking shear valve on piping in the former UST pit. The site underwent remodeling in December 2003, when the former UST pit was excavated and four USTs were removed. Soils were over excavated to 12 feet bgs; the shallow soil (top 5 feet) was reused to backfill the new UST pit, after confirmation sampling determined that no chemicals of potential concern (COCs) were present. The remaining soil and purge water were transported off-site for disposal. The upgraded gasoline USTs, with capacities of 12,000 gallons and 20,000 gallons, as well as new piping and distribution lines, were installed during remodeling. A former dispenser island (and possible source of on-site contamination) was located along the western side of the site and was removed sometime prior to the 1995 Phase II Site Investigation (BP).

Previous Activities

1984: Three single-walled fiberglass underground storage tanks (USTs) with capacities of 6,000 gallons, 8,000 gallons, and 10,000 gallons, were installed in the southeastern portion of the site. A former dispenser island reportedly existed on the west side of the site; however, there was no available information about the dispenser removal date.

1988: A 1,000-gallon, double-walled, fiberglass waste oil tank (WOT) was installed to replace the previous 380-gallon WOT. In September, Kaprealian Engineering, Inc. removed the original 380-gallon WOT and observed holes in this UST. As a result, confirmation soil samples were collected from the bottom of the excavation. The following analytical soil results were observed: benzene and toluene were detected at 6.8 µg/kg and 9.5 µg/kg, respectively; total petroleum hydrocarbons (TPH) and total oil and grease (TOG) constituents were not detected.

September and October 1992: Environmental Science & Engineering, Inc. (ESE) drilled five soil boreholes and converted them into monitoring wells (ESE-1 through ESE-5). Soil and groundwater samples were collected during well installation. In the soil samples, the maximum level of soil contamination was detected in monitoring well borehole ESE-5 at 220,000 µg/kg TPH as gasoline (TPH-g); 1,400 µg/kg benzene; 8,200 µg/kg toluene; 3,300 µg/kg ethylbenzene; and 18,000 µg/kg xylenes. In the groundwater samples collected from ESE-1, maximum concentrations were TPH-g at 2,300 µg/L; benzene at 370 µg/L; toluene at 160 µg/L; ethylbenzene at 17 µg/L; and xylenes at 110 µg/L.

July 1995: Three additional monitoring wells were installed: two on-site wells, MW-6 and MW-8, and one off-site well, MW-7.

April 1996: Well MW-8, located on the western margin of the site, was decommissioned to accommodate the road-widening project along Redwood Boulevard.

August 20, 2003: Prior to UST removal, SOMA oversaw drilling of two boreholes by Vironex. The boreholes were drilled in order to characterize the soil for landfill acceptance criteria.

September 2003: Three single-walled, fiberglass USTs, with capacities of 6,000 gallons, 8,000 gallons, and 10,000 gallons, were removed and replaced with two new double-walled, fiberglass USTs with capacities of 12,000 gallons and 20,000 gallons. In addition, the dispensers, product lines, and vent lines were removed and replaced. Soil below 5 feet bgs was disposed of off-site. Shallow soil was used as backfill material for the former UST pit after confirmation.

Third Quarter 2003: Two monitoring wells, ESE-3 and ESE-4, were decommissioned due to construction activities.

Fourth Quarter 2003: In December, SOMA oversaw drilling of off-site temporary well boreholes TWB-1 through TWB-5 to determine the horizontal extent of off-site petroleum hydrocarbon contamination.

June 2004: On June 10, SOMA installed on- and off-site monitoring wells: SOMA-1 in the southeastern section of the site, and SOMA-2 to SOMA-4 south and southeast of the site. Kier and Wright Engineers Surveyors, of Pleasanton, California, surveyed all site wells on June 21.

August 2006: SOMA conducted a sensitive receptor survey and it was concluded that no irrigation or domestic wells, and no sensitive groups or environments, evaluated during this sensitive receptor survey and located within ½-mile radius have the potential to be impacted by the site's contaminants at this time

Third Quarter 1993 to Present: On-going quarterly groundwater monitoring events have been conducted at the site.

September 2008: Shell Oil conducted a Phase II investigation. Elevated TPH-g concentrations 900 µg/L in groundwater and 720 mg/kg in soil were observed in the borings. Based on these elevated readings, Shell Oil filed a UST Unauthorized Release Report with Alameda County Environmental Health on September 24, 2008.

February 2009: Per ACEHD correspondence dated January 8, 2009, SOMA prepared a Site Conceptual Model and workplan to address data gaps at the site. SOMA proposed advancing soil borings to further define the lateral and

horizontal extent of COC impact to vadose zone and the WBZ (up to 31 feet bgs). Per the ACEHD correspondence dated March 27, 2009, SOMA submitted a workplan addendum which was approved by the ACEHD on July 10, 2009 which reduced the number of DP borings from 9 to 7 and proposed the advancement of a shallow groundwater monitoring well within the vadose zone (screened across the potentiometric surface) to determine the appropriateness of the screening interval for existing wells at the site.

August 2009: SOMA conducted a soil and groundwater investigation at the site, advancing seven soil borings and installed shallow groundwater monitoring well SOMA-5 to determine if groundwater at the site is confined or semi-confined. TPH-g was elevated in groundwater samples from DP-1 and DP-2 (210 µg/L and 130 µg/L, respectively) along the northwestern portion of the site and in DP-5 and DP-6 (640 µg/L and 1,600 µg/L, respectively) along the eastern portion of the station (north of the former USTs). TPH-d was elevated in all groundwater samples, with concentrations between 130 µg/L and 980 µg/L (DP-7 and DP-4, respectively). TPH-mo was observed only along the western portion of the site, in DP-2 through DP-4, with concentrations ranging from 360 µg/L to 570 µg/L. Based on elevated TPH concentrations along the northwestern portion of the site it appears that plume commingling might be occurring. It was determined that wells of ESE-1, ESE-2, ESE-5, MW-6 and MW-7 appear to be screened excessively long and are causing cross-contamination.

March 2010: SOMA submitted a workplan suggesting replacing (reconstructing) ESE-1, ESE-2, ESE-5, MW-6 and MW-7 with wells screened within the confined WBZ and installing four additional groundwater monitoring wells (SOMA-6 through SOMA-9) adjacent to the reconstructed wells (within 5 feet) and completed within the shallow zone.

APPENDIX B
Well Permits and Site Access Agreement

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: 07/20/2010 By jamesy

Permit Numbers: W2010-0535 to W2010-0543
Permits Valid from 08/11/2010 to 08/16/2010

Application Id: 1279228847924
Site Location: 3519 Castro Valley Boulevard
Castro Valley, CA
City of Project Site: Castro Valley

Project Start Date: 08/04/2010
Extension Start Date: 08/11/2010
Extension Count: 1
Completion Date: 08/10/2010
Extension End Date: 08/16/2010
Extended By: vickyh1

Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

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

Property Owner: Mirazim Shakoori
4313 Mansfield Drive, Danville, CA 94506
Phone: 925-648-0954

Client: ** same as Property Owner **

Contact: Erica Fisker
Phone: 925-734-6400
Cell: 925-899-8461

Total Due: $3573.00
Receipt Number: WR2010-0255 **Total Amount Paid:** $3573.00
Payer Name : SOMA Environmental Paid By: VISA **PAID IN FULL**

Engineering

Works Requesting Permits:

Monitoring Well Replacement-(Redrill)-Monitoring - 5 Wells
Driller: RSI Drilling - Lic #: 802334 - Method: hstem

Work Total: $1985.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0535	07/20/2010	11/02/2010	ESE-1	10.00 in.	2.00 in.	16.00 ft	25.00 ft
W2010-0536	07/20/2010	11/02/2010	ESE-2	10.00 in.	2.00 in.	20.00 ft	28.00 ft
W2010-0537	07/20/2010	11/02/2010	ESE-5	10.00 in.	2.00 in.	16.00 ft	24.00 ft
W2010-0538	07/20/2010	11/02/2010	MW-6	10.00 in.	2.00 in.	20.00 ft	28.00 ft
W2010-0539	07/20/2010	11/02/2010	MW-7	10.00 in.	2.00 in.	22.00 ft	30.00 ft

Specific Work Permit Conditions

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

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

3. Remove the Christy box or similar structure. Drill out & Replace with New Well.

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@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.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. 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.

11. 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.

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: RSI Drilling - Lic #: 802334 - Method: hstem **Work Total: $1588.00**

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2010-0540	07/20/2010	11/02/2010	SOMA-6 cancelled	8.00 in.	2.00 in.	3.00 ft	15.00 ft
W2010-0541	07/20/2010	11/02/2010	SOMA-7	8.00 in.	2.00 in.	3.00 ft	14.00 ft
W2010-0542	07/20/2010	11/02/2010	SOMA-8	8.00 in.	2.00 in.	3.00 ft	15.00 ft
W2010-0543	07/20/2010	11/02/2010	SOMA-9 cancelled	8.00 in.	2.00 in.	3.00 ft	14.00 ft

Specific Work Permit Conditions

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

properly damage, personal injury and wrongful death.

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

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

4. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.

6. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@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.

7. Wells shall have a Christy box or similar structure with a locking cap or cover. Well(s) shall be kept locked at all times. Well(s) that become damaged by traffic or construction shall be repaired in a timely manner or destroyed immediately (through permit process). No well(s) shall be left in a manner to act as a conduit at any time.

8. Minimum surface seal thickness is two inches of cement grout placed by tremie

9. Minimum seal (Neat Cement seal) depth for monitoring wells is 5 feet below ground surface(BGS) or the maximum depth practicable or 20 feet.

10. 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.

August 3, 2010

Florence Fang
980 Parrott Drive
Hillsborough, CA 94010

Re: SOMA-9 Well Installation Detail

Per Alameda County Department of Environmental Health, SOMA Environmental Engineering, Inc. (SOMA) is reconstructing an existing well on your property at 3549 Castro Valley Boulevard. In addition, SOMA is planning to install a shallow well adjacent to the existing well (approximately 5 feet away) to evaluate groundwater quality. The existing well and proposed well are located in the alley between your building and the property to the south, in the area containing the trash bins. These wells will be utilized for monitoring groundwater flow from the adjacent gasoline station at 3519 Castro Valley Boulevard, Castro Valley. Upon your request, a copy of SOMA's report, including the result of this investigation will be forwarded to your attention.

The locations of the two monitoring wells can be seen on the enclosed site map labeled as MW-7 and SOMA-9. The wells will be installed using a truck mounted drill rig and will be finished to grade with a traffic rated well box and neat cement dyed to match the existing surface.

Your cooperation on this Alameda County mandated program is highly appreciated. Thank you for taking the time to review this matter. If you could please fax back the signature page to SOMA at 925-734-6401 or email it to me at efisker@somaenv.com and return original in the enclosed self-addressed envelope. Work is slated to begin next Monday (August 9, 2010) at 3519 Castro Valley Blvd and continue through Wednesday August 11. If there is a particular day that is better for you, please let us know. Please do not hesitate to call me at (925) 734-6400, if you have any questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Enclosures

August 5, 2010

Florence Fang
980 Parrott Drive
Hillsborough, CA 94010

Re: SOMA-9 Well Installation Detail for Site Access Agreement Dated August 3, 2010

We sent you a letter on August 3, 2010 advising you of our plan to install a groundwater monitoring well (SOMA-9) adjacent to already existing well MW-7, installed in 1995, located at 3549 Castro Valley Boulevard. The well installation is in accordance with instructions from Alameda County Department of Environmental Health (attached hereto). These groundwater monitoring wells will be used to establish whether any groundwater contamination is migrating to your property from the neighboring gasoline station. It is therefore in your own best interest to permit installation of this well. Furthermore, all work conducted by SOMA will be paid by the Underground Storage Fund program administered by the State Water Resources Control Board.

We estimate the well-installation work on your property will take approximately 4 to 5 hours. Drilling of SOMA-9 will utilize a truck mounted-drilling rig that will be parked adjacent to the garbage containers for the duration of the work. Once the well is installed, an 8-inch metal lid, installed flush with the ground surface, will be the only visible part of this well. The metal lid is not conspicuous, and will not impede vehicular or pedestrian traffic in the area.

Your cooperation with this Alameda County mandated program is highly appreciated. Thank you for taking the time to review this matter. We would like to request that you please sign and fax back a copy of the signature page from our August 3, 2010 correspondence to 925-734-6401 and return the signed original in the self-addressed stamped envelope enclosed with that letter. For your information, work at 3519 Castro Valley Boulevard is scheduled to begin Monday, August 9, 2010, and continue through Wednesday August 11. If a particular day for work on your property is best for you, please let us know. Do not hesitate to call me at (925) 734-6400, if you have questions or comments.

Sincerely,

Mansour Sepehr, Ph.D., PE
Principal Hydrogeologist

Access Agreement for Reconstruction of Existing Well MW-7 and Installation of a New Well SOMA-9, at 3549 Castro Valley Boulevard, Castro Valley, CA

Dated: 8-5-10

Mansour Sepehr
Principal Hydrogeologist
SOMA Environmental Engineering, Inc.

Dated: 8-9-10

Florence Fang
Property Owner

APPENDIX C

Borehole Logs, Well Development Sheets, and Field Notes

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: SOMA-6

PROJECT: 2762

DATE DRILLED: August 9, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: NA

DRILLER: RSI Drilling

First Encountered GW: Not encountered
Stablized GW: DRY

DRILLING METHOD: Hollow Stem Auger

T.O.C. TO SCREEN: NA

BORING DIAMETER: 8-inch

SCREEN LENGTH: NA

LOGGED BY: Erica Fisker

APPROVED BY: Mansour Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0		AC	10-inch Concrete Core					
0.0			CL	Hand Auger top 5 feet, Fill top 1 foot SANDY LEAN CLAY: Dark brown, firm, dry to damp, medium plastic, medium dilatancy, medium to high toughness, medium dry strength, ~40% fine to coarse-grained sand, no Petroleum Hydrocarbon (PHC) odor Becomes light brown, low dry strength, and very soft at 3 feet					
0.9	5		CL	LEAN CLAY: Dark brown, damp, high plasticity, medium toughness, medium dry strength, slow dilatancy, soft to firm, ~10% fine-grained sand, no PHC odor					
0.9			SM	SILTY SAND: Medium brown with black and rust mottling, ~68 % fine to medium grained sand, firm, ~32% silt: low plastic, low dry strength, slow dilatancy As above: becomes light brown with light grey mottling and fine- to coarse-grained sand	X				
0.4									
0.6	10		SW	WELL GRADED SAND w/silt: blue grey with light brown and CaCO3 mottling, dry, very soft, ~90 % fine- to coarse-grained sand, ~10% silt: low plastic, no dilatancy, no dry strength, low toughness, PHC staining, strong PHC odor	X				
3.0			SW	WELL GRADED SAND: light brown with grey mottling, loose, fine- to coarse-grained sand, ~10% silt, CaCO3 mottling, dry to damp, strong PHC odor					
320									
4.5	15		CL	SANDY CLAY: Reddish-brown with grey mottling, hard to very hard, medium toughness, medium plastic, low dilatancy, ~30% fine- to coarse-grained sand					
	20								
	25								

COMMENTS: Left open with trench plate secured with asphalt and drum, checked daily for water 8/16/10, boring dry; abandoned borehole by tremie grouting and finished to grade with concrete

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: SOMA-7

PROJECT: 2762

DATE DRILLED: August 9, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 178.54 Ft.

DRILLER: RSI Drilling

First Encountered GW: Not encountered
Stablized GW: 8.3 Feet

DRILLING METHOD: Hollow Stem Auger

T.O.C. TO SCREEN: 5 Feet

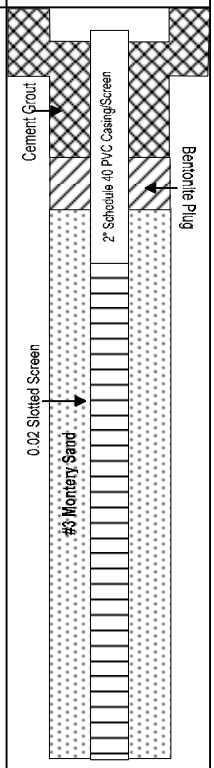
BORING DIAMETER: 8-inch

SCREEN LENGTH: 10 Feet

LOGGED BY: Erica Fisker

APPROVED BY: Mansour Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
			AC	2-inch Asphalt					
87.5			CL	Hand Auger top 5 feet SANDY LEAN CLAY: Brown, gravelly fill with silt and sand to 1.4 feet bgs, Dark grey-black w/blue-green staining, soft, damp, fine- to coarse-grained sand, low to medium plastic, slow dilatancy, medium toughness, strong Petroleum Hydrocarbon (PHC) odor	X				
				Some brown mottling starts at 4 feet bgs					
236.5	5		CL	SANDY LEAN CLAY: Blue-grey with black mottling and PHC staining, asphalt scattered througout core, fine- to coarse-grained sand, 5% gravel up to 1.5 inch, low to medium plastic, medium toughness, slow dilatancy, damp.					
138.7				Moist at 9 feet, brown mottling at 10 feet	X		▼		
	10		SM	SILTY SAND: Light grey, damp, very fine- to fine-grained sand, brown mottling, loose, ~17% silt, low plastic, slow dilatancy, low toughness, low dry strength, PHC odor	X				
630			CL	SANDY LEAN CLAY: Brown with grey mottling, fine- to coarse-grained sand (~20%), hard, dry to damp, slow dilatancy, medium toughness, medium plastic, no PHC odor below 12.5 feet.					
20.5	15								
	20								
	25								



COMMENTS: Left open with trench plate secured with 55-gallon drum, set well 8/10/2010.
DTW on 8/10/10: 8.39 feet bgs, sheen, PHC odor

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: SOMA-8

PROJECT: 2762

DATE DRILLED: August 9, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 181.57 Ft.

DRILLER: RSI Drilling

First Encountered GW: Not encountered
Stablized GW: 9.86 Feet

DRILLING METHOD: Hollow Stem Auger

T.O.C. TO SCREEN: 5 Feet

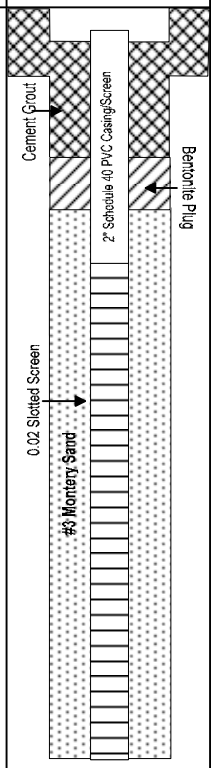
BORING DIAMETER: 8-inch

SCREEN LENGTH: 10 Feet

LOGGED BY: Erica Fisker

APPROVED BY: Mansour Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
1.5	0		SP	Hand Auger top 5 feet POORLY GRADED SAND w/GRAVEL: Reddish-brown, dry to damp, loose, medium- to very coarse-grained sand, fine-grained rounded to sub-rounded gravel (~10%), no Petroleum Hydrocarbon (PHC) odor					
			ML	SANDY SILT: Dark brown, soft, damp, medium to high plastic, slow dilatancy, low toughness, low dry strength, fine- to coarse-grained sand decreasing with depth, no PHC odor					
1.2	5		ML	SANDY SILT: Dark brown, dry to damp, soft to firm, low to medium plastic, medium dry strength, medium toughness, slow dilatancy, fine- to medium-grained sand, no PHC odor. Color change to light brown mottling at 7 ft.	X				
1.1				dry at 9 feet, CaCO3 nodules with rust mottling			▼		
1.2	10		SM	SILTY SAND: Reddish-brown, dry, loose, very fine- to fine-grained sand, ~25% silt: low plastic, low toughness, slow dilatancy, low dry strength, no PHC odor Black speckling and mottling begins at 11 feet	X				
1.4				Sand becomes fine- to coarse-grained at 14 feet					
	15								
	20								
	25								



COMMENTS: Left open with trench plate secured with 55-gallon drum, set well 8/10/2010.
DTW on 8/10/10: 9.86 feet bgs, sheen, PHC odor

SOMA ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: SOMA-9

PROJECT: 2762

DATE DRILLED: August 9, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: NA

DRILLER: RSI Drilling

First Encountered GW: Not encountered
Stablized GW: DRY

DRILLING METHOD: Hollow Stem Auger

T.O.C. TO SCREEN: NA

BORING DIAMETER: 8-inch

SCREEN LENGTH: NA

LOGGED BY: Erica Fisker

APPROVED BY: Mansour Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
			AC	4-inch Asphalt, 6-inch Concrete					
0.5			CL-ML	Hand Auger top 5 feet SILTY CLAY: Dark brown, damp to moist, firm to very firm, medium plastic, medium toughness, slow dilatancy, Fe oxide staining/mottling, no Petroleum Hydrocarbon (PHC) odor. Large chunks of concrete at 2.5 feet bgs					
0.1	5		CL-ML	SILTY CLAY: Dark brown with black and rust mottling, damp, soft to firm, highly plastic, medium toughness, slow dilatancy, medium dry strength, ~10% very fine to fine-grained sand, some CaCO3 nodules, no PHC odor	X				
0.0				Increasing CaCO3 with depth, Sand becomes fine- to coarse-grained, increase to ~10%					
	10		GP	POORLY GRADED GRAVEL w/sand and silt: grey to light brown, damp, loose.					
0.5			SM	SILTY SAND: Reddish-brown, damp, loose, black specks, no toughness, no plastic, slow dilatancy, no dry strength, ~30% fines with increasing silt with depth, no PHC odor	X				
0.0	15								
	20								
	25								

COMMENTS: Left open with trench plate secured with asphalt and drum, checked daily for water
8/16/10, borehole dry. abandoned borehole by tremie grouting and finishing to grade with asphalt

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: ESE-1R

PROJECT: 2762

DATE DRILLED: August 10, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 180.20 Ft.

DRILLER: RSI Drilling

First Encountered GW: 9.95 Ft.
Stablized GW: 10.17 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 18 Ft.

BORING DIAMETER: 10-inch

SCREEN LENGTH: 7 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0			18-inch concrete core Existing well over drilled with 8-inch auger and all casing and annular seal removed Backfill 5 feet of hydrated bentonite Re-advanced with 10-inch auger to 25 Ft. TD and casing installed Sheen and odor observed in water within hole See Boring Log for ESE-1 (9/29/92) for geologic discription					Cement Grout 2" Schedule 40 PVC Casing/Screen Bentonite Plug 0.02 Slotted Screen #3 Monterey Sand
	5								
	10								
	15								
	20								
	25								

COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.	GEOLOGIC LOG OF BOREHOLE: ESE-1R	PAGE 2 OF 2

PROJECT: 2762

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

DRILLER: RSI Drilling

DRILLING METHOD: HSA

BORING DIAMETER: 10-inch

LOGGED BY: E. Fisker

DATE DRILLED: August 10, 2010

CASING ELEVATION: 180.70 Ft.

First Encountered GW: 9.95 Ft.
Stablized GW: 10.17 Ft.

T.O.C. TO SCREEN: 18 Ft.

SCREEN LENGTH: 7 Ft.

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
				18-inch concrete core Existing well over drilled with 8-inch auger and all casing and annular seal removed Backfill 5 feet of hydrated bentonite Re-advanced with 10-inch auger to 25 Ft. TD and casing installed Sheen and odor observed in water within hole See Boring Log for ESE-1 (9/29/92) for geologic discription					Bentonite Plug

COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: ESE-2R

PROJECT: 2762

DATE DRILLED: August 11, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 180.70 Ft.

DRILLER: RSI Drilling

First Encountered GW: 10.44 Ft.
Stablized GW: 10.61 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 22 Ft.

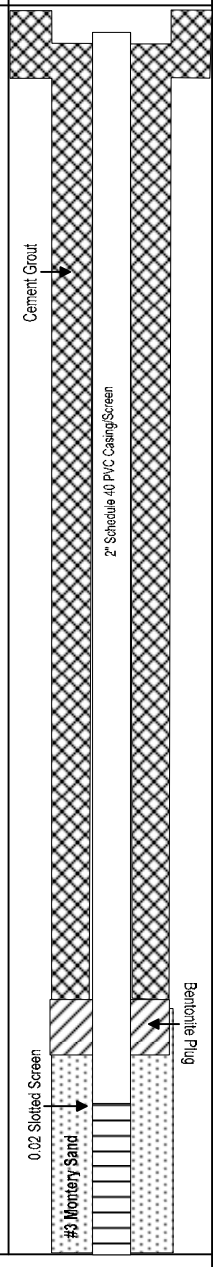
BORING DIAMETER: 10-inch

SCREEN LENGTH: 6 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0			18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Backfill 2 feet of hydrated bentonite Re-advanced with 10-inch auger to 28 Ft. TD and casing installed See Boring Log for ESE-2 (9/28/92) for geologic discription					



COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: ESE-2R

PROJECT: 2762

DATE DRILLED: August 11, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 180.70 Ft.

DRILLER: RSI Drilling

First Encountered GW: 10.44 Ft.
Stablized GW: 10.61 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 22 Ft.

BORING DIAMETER: 10-inch

SCREEN LENGTH: 6 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
				18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Backfill 2 feet of hydrated bentonite Re-advanced with 10-inch auger to 28 Ft. TD and casing installed See Boring Log for ESE-2 (9/28/92) for geologic discription					Bentonite Plug
	30								
	35								
	40								
	45								
	50								

COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.	GEOLOGIC LOG OF BOREHOLE: ESE-5R	PAGE 1 OF 1

PROJECT: 2762

DATE DRILLED: August 10, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 178.64 Ft.

DRILLER: RSI Drilling

First Encountered GW: 7.01 Ft.
Stablized GW: 8.97 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 18 Ft.

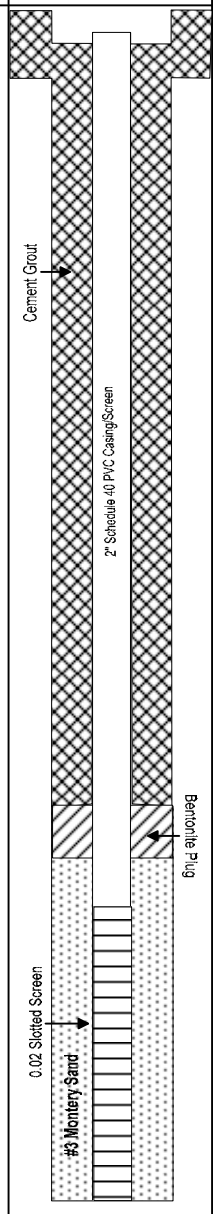
BORING DIAMETER: 10-inch

SCREEN LENGTH: 6 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0		CL	18-inch concrete core Existing well over drilled with 8-inch auger and all casing and annular seal removed Re-advanced with 10-inch auger to 24 Ft. TD and casing installed Hand auger top 5 Feet due to proximily of unknown metal utility SANDY LEAN CLAY: Brownish-grey, petro staining, very fine- to fine-grained sand slow dilatancy, medium plastic, firm, medium tough. PHC odor to 3.5 Ft. bgs See Boring Log for ESE-5 (9/29/92) for geologic discription					



COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: MW-6R

PROJECT: 2762

DATE DRILLED: August 10, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 181.34 Ft.

DRILLER: RSI Drilling

First Encountered GW: 9.64 Ft.
Stablized GW: 9.55 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 22 Ft.

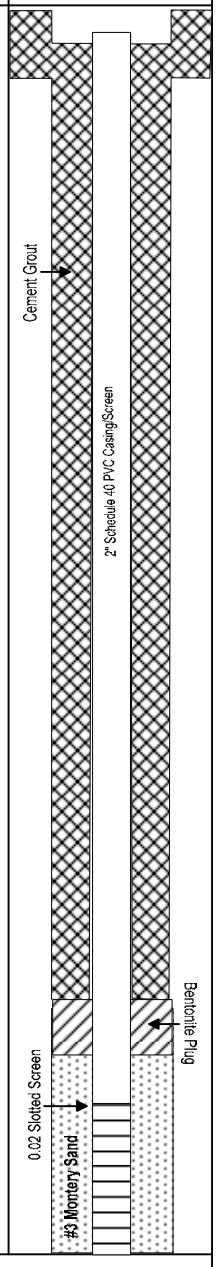
BORING DIAMETER: 10-inch

SCREEN LENGTH: 6 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0			18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Backfill 2 feet of hydrated bentonite Re-advanced with 10-inch auger to 28 Ft. TD and casing installed See Boring Log for MW-6 (7/18/95) for geologic discription					



COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.	GEOLOGIC LOG OF BOREHOLE: MW-6R	PAGE 2 OF 2

PROJECT: 2762

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

DRILLER: RSI Drilling

DRILLING METHOD: HSA

BORING DIAMETER: 10-inch

LOGGED BY: E. Fisker

DATE DRILLED: August 10, 2010

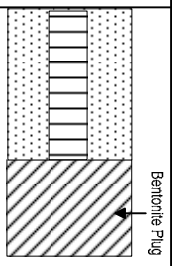
CASING ELEVATION: 181.34 Ft.

First Encountered GW: 9.64 Ft.
Stablized GW: 9.55 Ft.

T.O.C. TO SCREEN: 22 Ft.

SCREEN LENGTH: 6 Ft.

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	30			18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Backfill 2 feet of hydrated bentonite Re-advanced with 10-inch auger to 28 Ft. TD and casing installed See Boring Log for MW-6 (7/18/95) for geologic discription					
	35								
	40								
	45								
	50								

COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.

GEOLOGIC LOG OF BOREHOLE: MW-7R

PROJECT: 2762

DATE DRILLED: August 11, 2010

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

CASING ELEVATION: 179.14 Ft.

DRILLER: RSI Drilling

First Encountered GW: 9.11 Ft.
Stablized GW: 9.39 Ft.

DRILLING METHOD: HSA

T.O.C. TO SCREEN: 24 Ft.

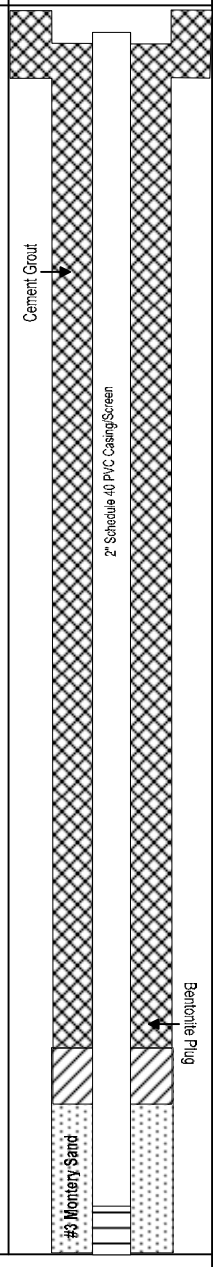
BORING DIAMETER: 10-inch

SCREEN LENGTH: 6 Ft.

LOGGED BY: E. Fisker

APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	0			18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Re-advanced with 10-inch auger to 30 Ft. TD and casing installed See Boring Log for MW-7 (7/18/95) for geologic discription					
	5								
	10								
	15								
	20								
	25								



COMMENTS:

ENVIRONMENTAL ENGINEERING, INC.	GEOLOGIC LOG OF BOREHOLE: MW-7R	PAGE 2 OF 2

PROJECT: 2762

SITE LOCATION: 3519 Castro Valley Blvd., Castro Valley

DRILLER: RSI Drilling

DRILLING METHOD: HSA

BORING DIAMETER: 10-inch

LOGGED BY: E. Fisker

DATE DRILLED: August 11, 2010

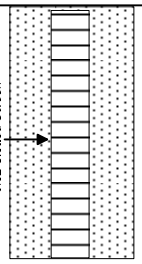
CASING ELEVATION: 179.14 Ft.

First Encountered GW: 9.11 Ft.
Stablized GW: 9.39 Ft.

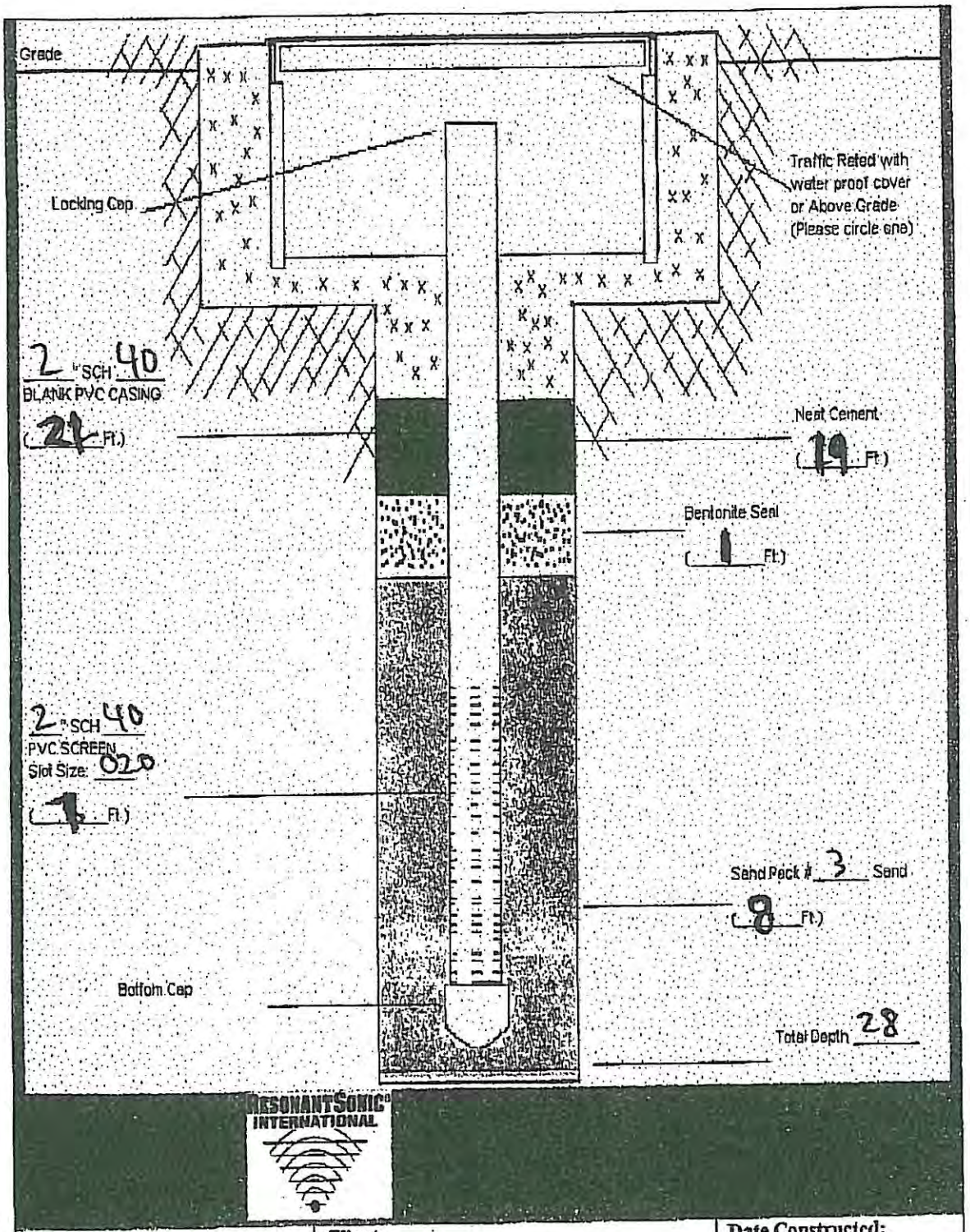
T.O.C. TO SCREEN: 24 Ft.

SCREEN LENGTH: 6 Ft.

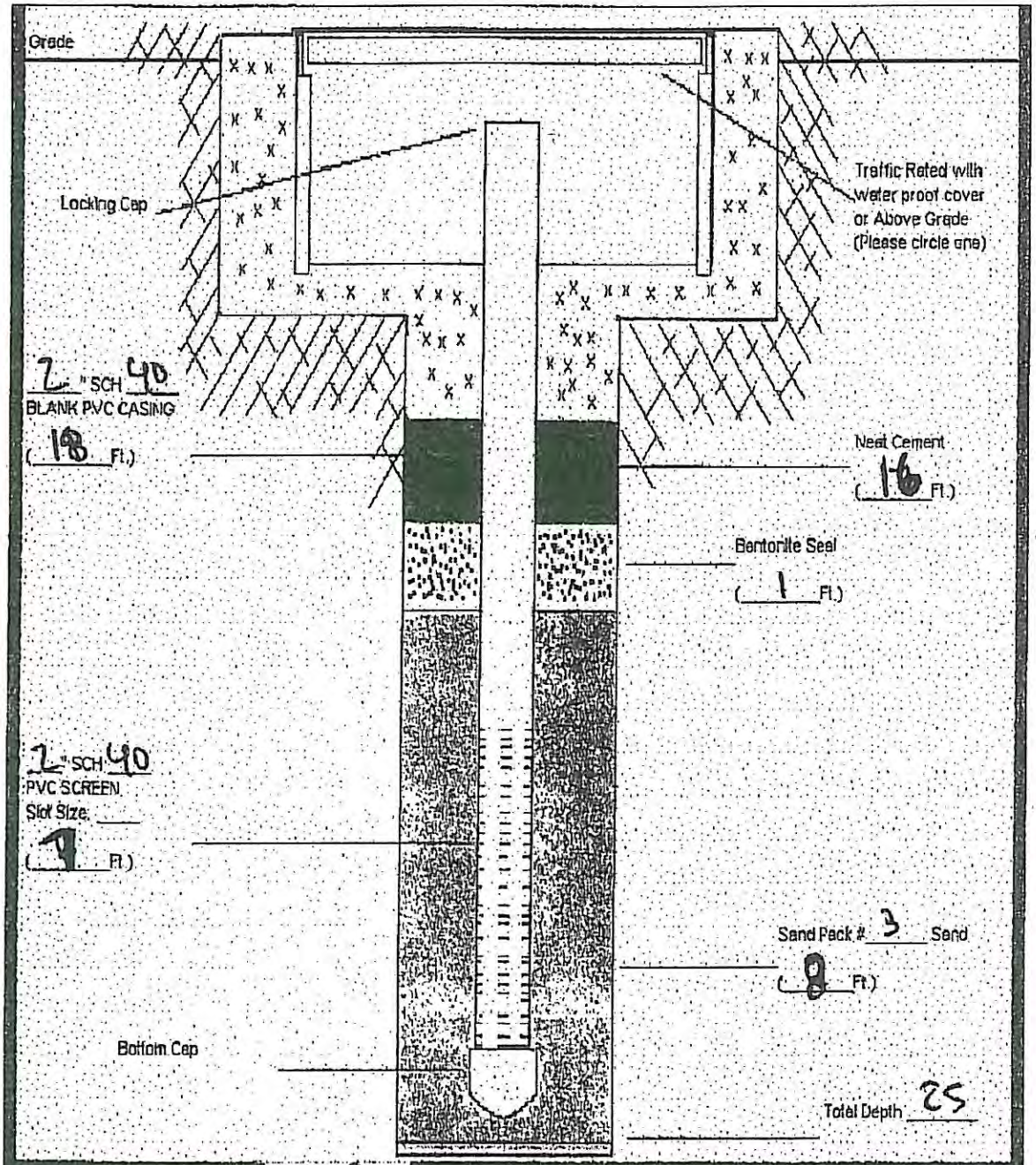
APPROVED BY: M. Sepehr

PID ppm	DEPTH	GRAPHIC LOG	SOIL CLASS	GEOLOGIC DESCRIPTION	SAMPLED: SPLIT SPOON	SAMPLED: CORE	GW LEVEL	BLOWCOUNTS	WELL DIAGRAM
	30			18-inch concrete core Existing well: over drilled to 30 Ft. with 8-inch auger and all casing and annular seal removed Re-advanced with 10-inch auger to 30 Ft. TD and casing installed See Boring Log for MW-7 (7/18/95) for geologic discription					
	35								
	40								
	45								
	50								

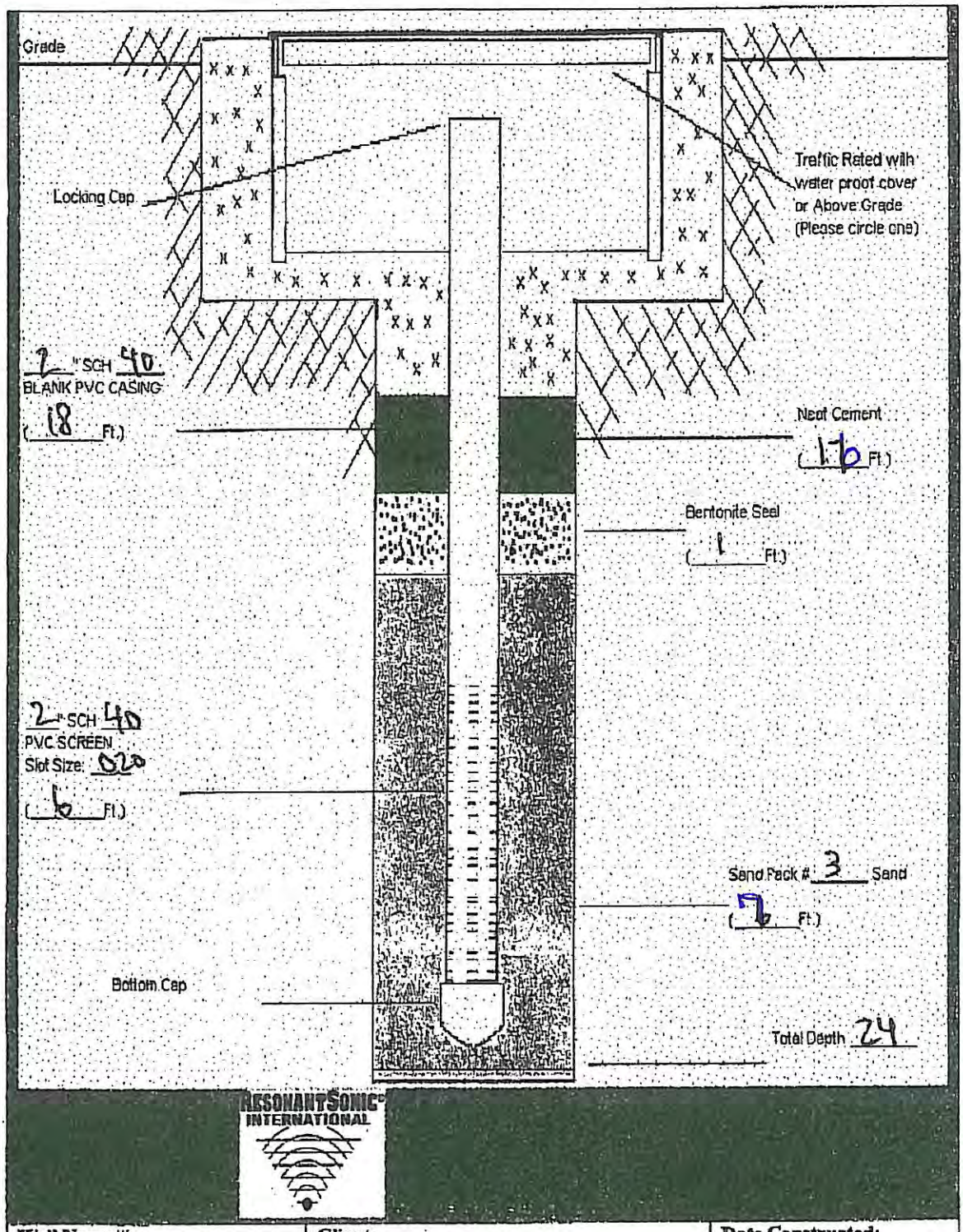
COMMENTS:



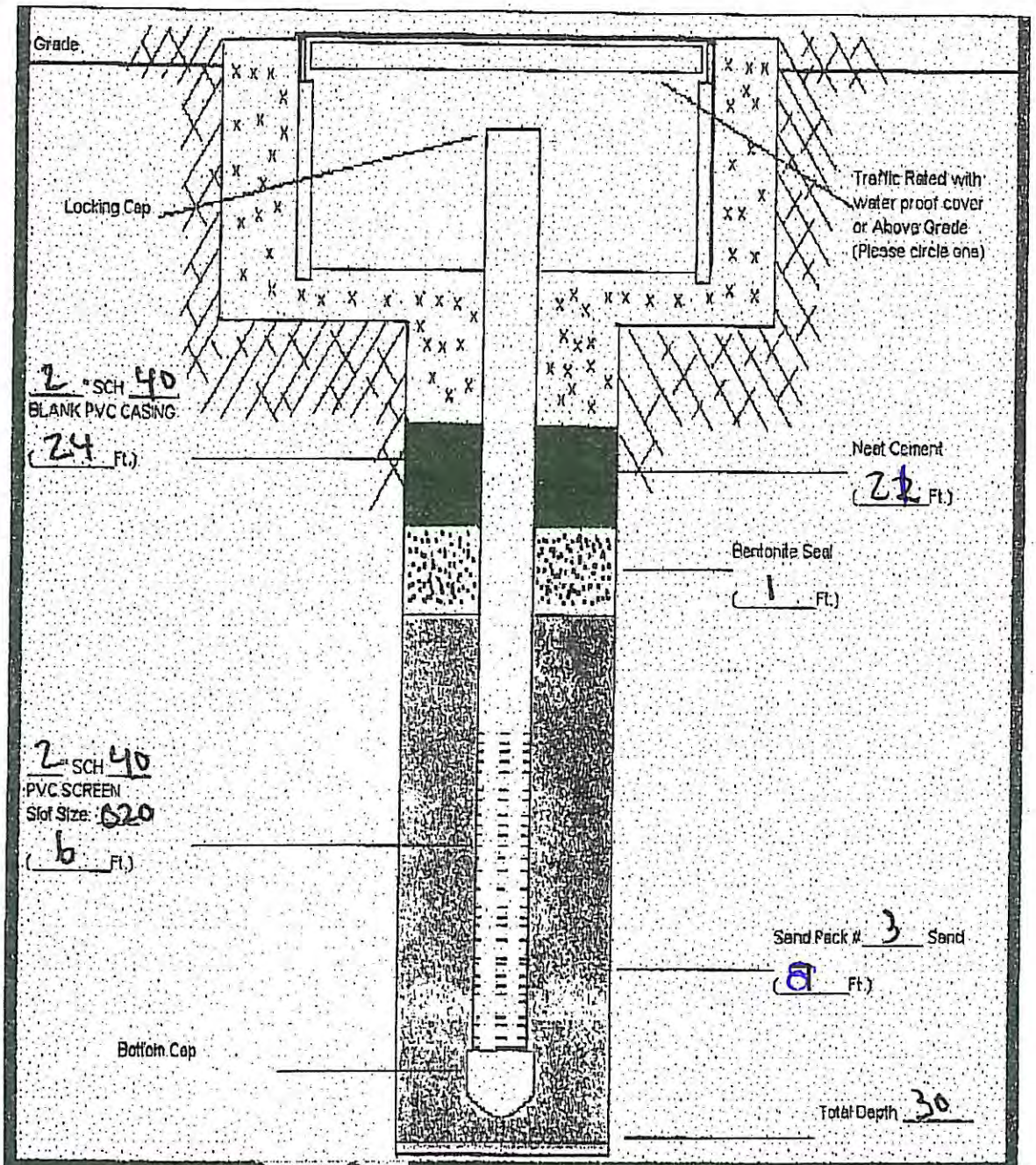
Well Name/#: MW-6R	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #:	**Location:** 3519 Castro Valley Blvd Castro Valley CA.	**Project No.:** 100527
Client Approval:		**Date:** 8-11-10



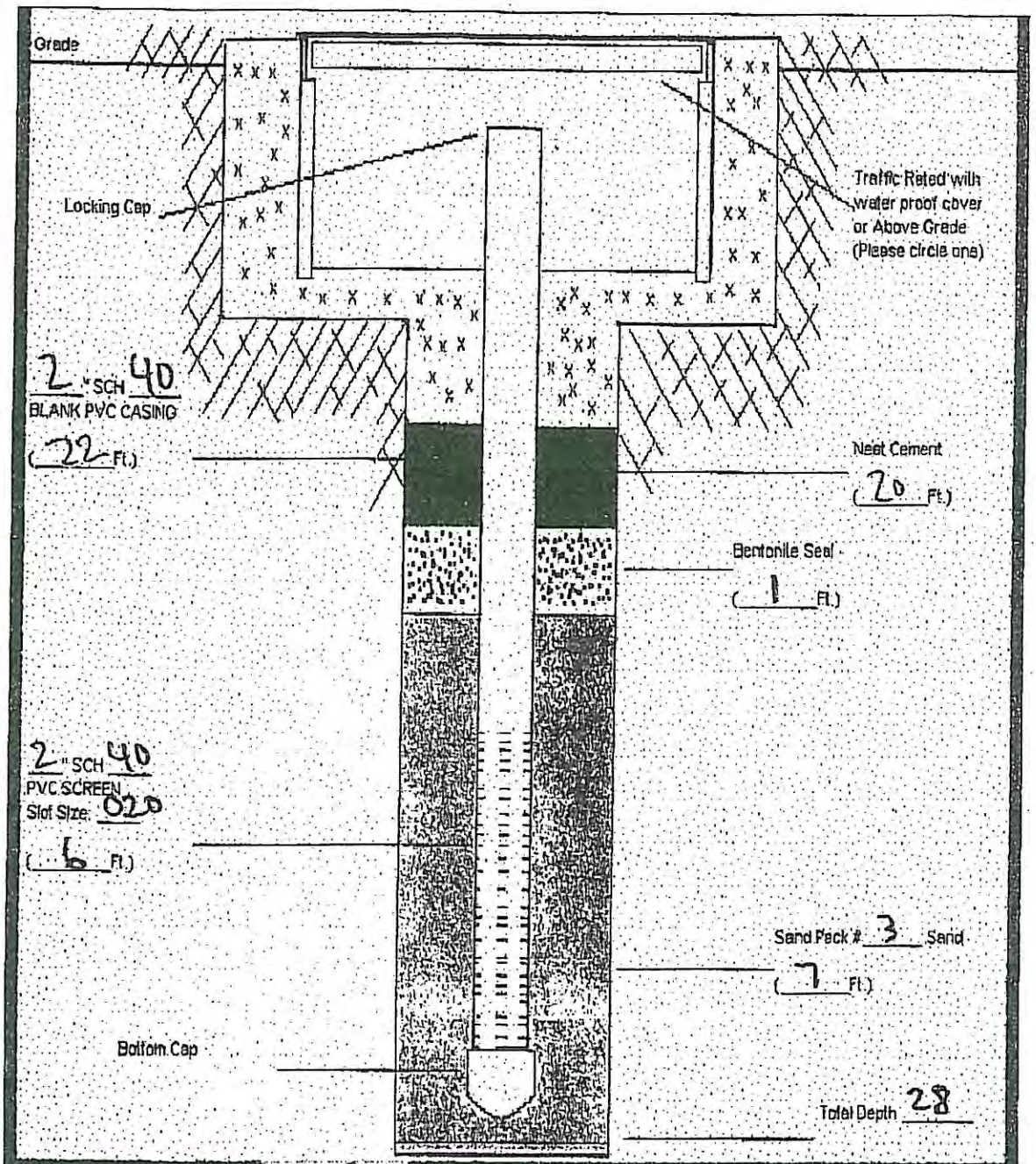
Well Name/#: ESE-1R	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-0535	**Location:** 3519 Castro Valley Blvd Castro Valley CA.	**Project No.:** 160527
Client Approval:		**Date:** 8-11-10



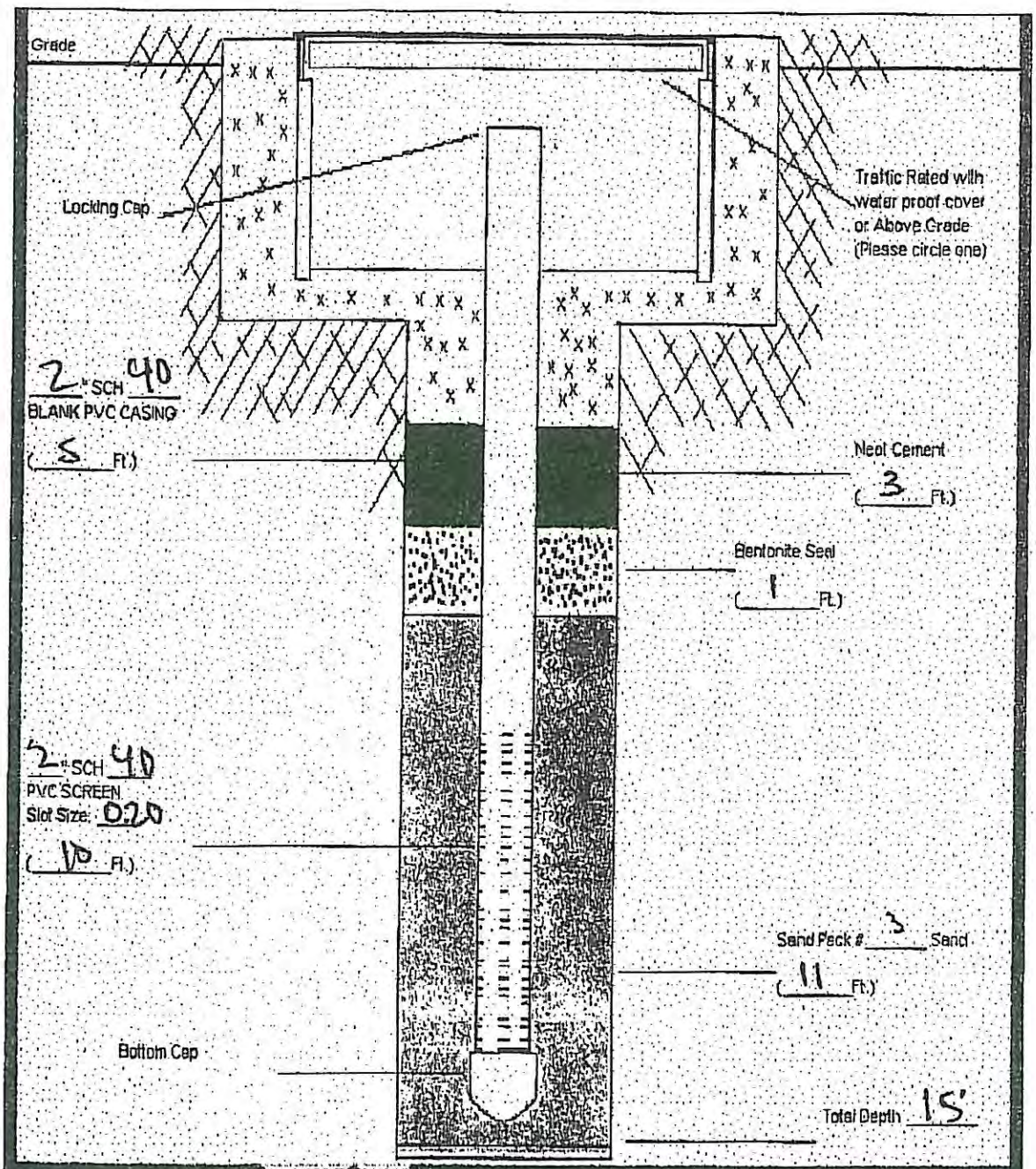
Well Name/#: ESE-5R	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-0537	**Location:** 3519 Castro Valley Blvd. Castro Valley CA.	**Project No.:** 160527
Client Approval:		**Date:** 8-11-10



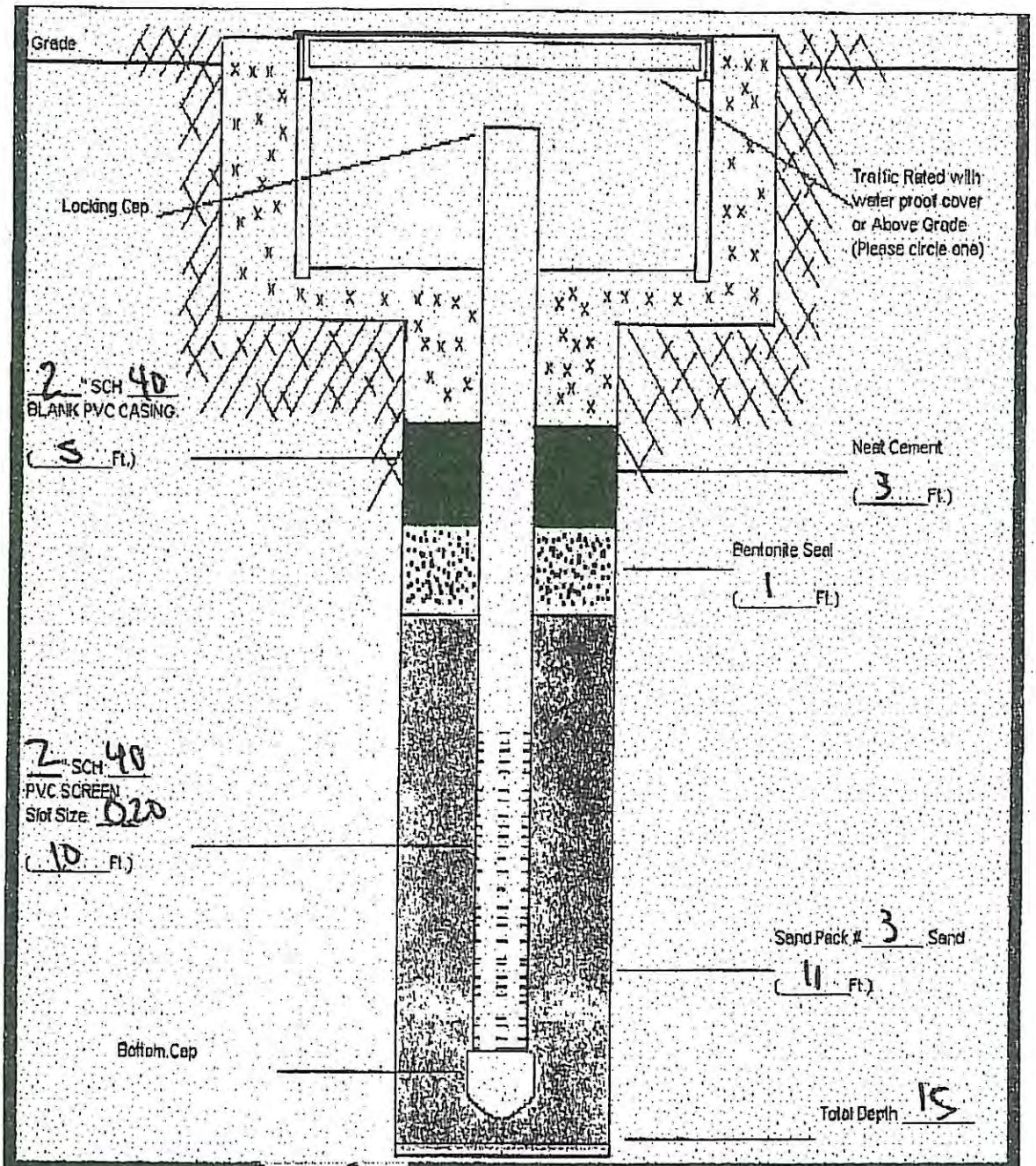
Well Name/#: MW-7R	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-0539	**Location:** 3519 Castro Valley Blvd. Castro Valley CA.	**Project No.:** 100521
Client Approval: Eliza Tudor		**Date:** 8-11-10



Well Name/#: ESE-2R	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-05316	**Location:** 3519 Castro Valley Blvd Castro Valley CA.	**Project No.:** 100527
Client Approval: Erica Foster		**Date:** 8-11-10



Well Name/#: SOMA-8	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-0542	**Location:** 3519 Castro Valley Blvd. Castro Valley CA.	**Project No.:** 100527
Client Approval:		**Date:** 8-11-10

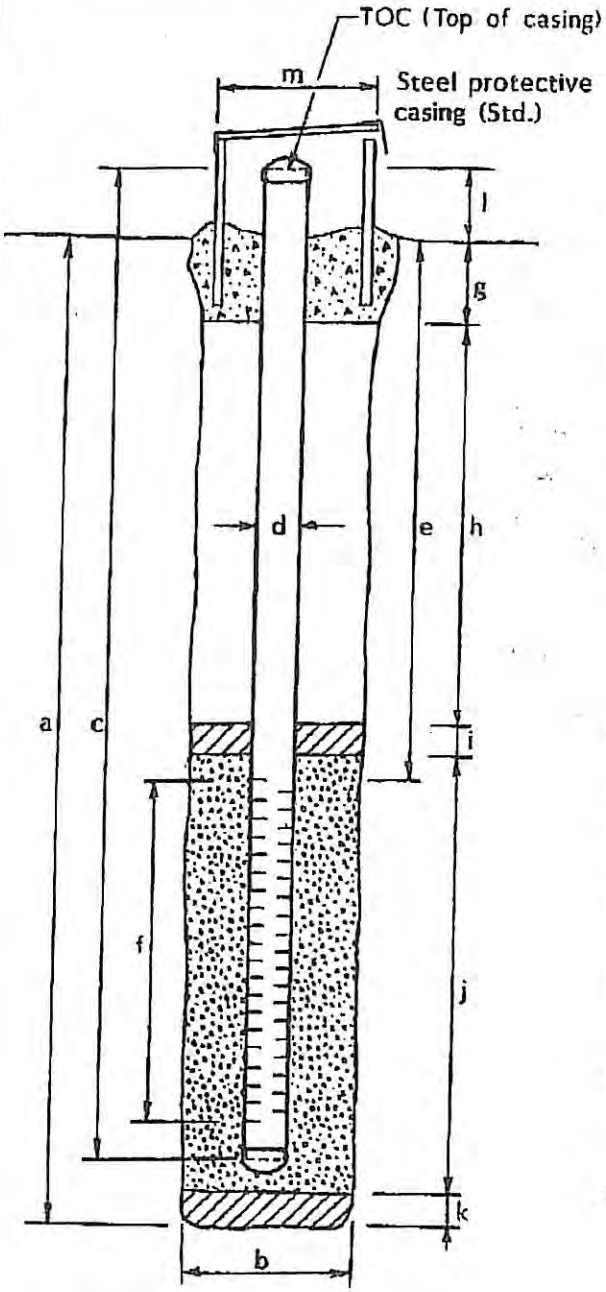


Well Name/#: SOMA-9	**Client:** SOMA	**Date Constructed:** 8-11-10
Well Permit #: W2010-0543	**Location:** 3519 Castro Valley Blvd Castro Valley CA.	**Project No.:** 100527
Client Approval:		**Date:** 8-11-10

WELL DETAILS

PROJECT NUMBER 180527
PROJECT NAME SOMA
LOCATION 3519 Castro Valley Blvd
WELL PERMIT NO. _____

BORING / WELL NO. SOMA-8 SOMA-9
TOP OF CASING ELEV. _____
GROUND SURFACE ELEV. 15'
DATUM _____
INSTALLATION DATE 8-10-10



EXPLORATORY BORING

a. Total depth 15' ft.
b. Diameter 2 in.
Drilling method Auger

WELL CONSTRUCTION

c. Total casing length 5' ft.
Material _____
d. Diameter 2 in.
e. Depth to top perforations 10' ft.
f. Perforated length 10 ft.
Perforated interval from ____ to ____ ft.
Perforation type _____
Perforation size _____
g. Surface seal ____ ft.
Seal material _____
h. Backfill ____ ft.
Backfill material _____
i. Seal ____ ft.
Seal material _____
j. Gravel pack 11 ft.
Pack material #3 sand
k. Bottom seal 0 ft.
Seal material _____
l. Casing stickup 6" ft.
m. Protective casing diameter 8 in.

Prepared by: _____

Reviewed by: _____ Date: _____

Form F-11 Rev. 12/90

WELL DEVELOPMENT DATA SHEET

WELL ID ESE-1R

PROJECT NAME: 3519 Castro	DATE: 8-17-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE:		DATE OF DEVELOPMENT: 8-17-10
BAILER TYPE: Steele	PUMP TYPE: grundfos	
DESCRIPTION OF DEVELOPMENT: surge, bail 5 gallons, Pump		
MEASURING POINT (MP) ELEVATION (FMSL):		

Petro odor

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
24.62 /	hard /	11.56	13.06	(2)	4	6	(0.16)	0.65	1.47	2.09	10.45

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
19	25	6

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL) (total)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
8:39	start	purge									
8:48	9	0	0.4	0.5	11.56	19.01	8.09	1153	999	petro	
8:55	7		2.5	5.5	11.02	18.84	8.39	1084	999	petro	foam
9:03	8	2.5	5	15.5	16.77	18.99	6.79	1077	999	petro	
9:07	4	2.5	5	25.5	—	19.52	6.62	1072	999	st petro	
9:11	4	2.5	5	35.5	—	19.51	6.55	1062	691	st petro	
9:13	2	2.5	2.5	40.5	—	19.57	6.54	1060	539	st petro	
9:15	2	2.5	2.5	45.5	—	19.29	6.53	1058	467	st petro	

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID ESE-1R

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-17-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
9:17	2	2.5	2.5	50.5	—	19.31	6.53	1062	403	St petro	
9:19	2	2.5	2.5	55.5	—	19.41	6.52	1061	341	St petro	
9:21	2	2.5	2.5	60.5	—	19.44	6.51	1054	278	St petro	
9:23	2	2.5	2.5	65.5	—	19.44	6.51	1053	223	St petro	
9:25	2	2.5	2.5	70.5	—	19.41	6.49	1054	199	St petro	
9:27	2	2.5	2.5	75.5	—	19.36	6.49	1052	164	St petro	
9:29	2	2.5	2.5	80.5	—	19.36	6.49	1058	140	St petro	
9:31	2	2.5	2.5	85.5	—	19.27	6.54	1057	117	St petro	
9:33	2	2.5	2.5	90.5	—	19.32	6.61	1045	107	St petro	
9:35	2	2.5	2.5	95.5	—	19.48	6.57	1044	99	St petro	

WELL DEVELOPMENT DATA SHEET

WELL ID ESE-2R

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-17-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE: HSA		DATE OF DEVELOPMENT: 8-17-10
BAILER TYPE: steel	PUMP TYPE: grundfos 5	
DESCRIPTION OF DEVELOPMENT: Surge, bail 5 gal, start pump		
MEASURING POINT (MP) ELEVATION (FMSL):		

under pressure

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
27.70/ 27.70	hard / hard	11.56	16.14	(2)	4	6	(0.16)	0.65	1.47	2.58	12.9

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
22	28	6

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
7:30	Start	Surge							~~999~~		
7:45	15	0	0	0.5	11.56	19.44	10.67	778	999	NA	
7:53	8		2	5.5	13.77	19.21	9.60	751	999	NA	
8:02		2.5	4	15.5	20.72	19.13	7.58	869	999	NA	
8:06		2.5		25.5	~~19.17~~	19.17	7.02	906	746	NA	
8:08		2.5		30.5	—	19.26	6.90	909	405	NA	
8:10		2.5		35.5	—	19.28	6.90	909	259	NA	
8:12		2.5		40.5	—	19.35	6.81	912	205	NA	

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID ESE-2R

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-17-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
8:14		2.5		45.5	-	19.36	6.78	909	139	NA	Slightly cloudy
8:16		2.5		50.5	-	19.33	6.77	911	124	NA	
8:18		2.5		55.5	—	19.40	6.73	912	102	NA	
8:22		2.5		60.0	—	19.36	6.76	914	78.2	NA	
8:20		2.5	6.5	65.0	—	19.37	6.70	936	155	NA	
8:24		2.5		70	—	19.38	6.73	926	91.1	NA	
8:26		2.5		75	15.76	19.34	6.68	923	86.9	~~NA~~ Slight Odor	

WELL DEVELOPMENT DATA SHEET

no odor

WELL ID ESE-5R

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE:		DATE OF DEVELOPMENT: 8-16-10
BAILER TYPE:	PUMP TYPE: grundfos	
DESCRIPTION OF DEVELOPMENT: Surge, bail to 5gal, Pump 5 gallons, wait for recharge, bail recharge 0.0 inch / 2min		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
23.69/23.69	hard / hard	7.69	16	(2)	4	6	(0.16)	0.65	1.47	2.56	12.8

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
18	24	6

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
13:30	start ~~purging~~ surging										well not under
13:35	5	0	0	0.25	7.69	23.63	8.25	1.93	-5.0	non-petro	pressure
13:45	10	0.5	2	5.25	16.97	21.12	8.69	2.10	-5.0	NA	
13:52	7	0.75	1	8.25	22.30	21.59	8.09	2.33	-5.0	NA	
13:55	Dry	—	—	10.25	23.20	—	—	—	—	—	—
14:07	12	0.06	1	12.25	20.02	23.36	7.62	1.98	-5.0	NA	
14:20	13			13.00		21.08	7.53	1.73	-5.0	NA	
14:27	add 2 gallon H_2O & surge 19										
14:36	"	"	"		"	18.59					

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID ESE-5R

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fiske

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
14:45	9			14.0	18.18	24.88	7.68	1.07	-5.0	NA	
14:50	add 5	gallons	and	surge	16.76			~~0.776~~	~~-5.0~~		
15:01	11			15.8	11.21	24.26	8.18	0.789	-5.0	NA	
15:03	2	6.50		16.0	15.02	22.97	8.41	0.885	-5.0	NA	
15:05	3	0.33		17.0	17.20	22.36	8.12	0.980	-5.0	NA	
15:30	25			18		22.23	7.55	1.04	-5.0	NA	
15:31	1	2		20	20.30	22.44	7.65	1.00	-5.0	NA	
15:46	9	2		22	~~20.08~~	21.63	7.46	1.18	-5.0	NA	
15:55	15	2		23	19.16	21.87	6.95	1.15	464	NA	
15:58		2		25		21.73	7.0	1.12	364	NA	
16:00		2		27		21.77	7.03	1.06	531	NA	
16:02		2		29	20.90	21.94	6.95	1.07	916	NA	
16:15		2		31	20.60	21.98	6.99	1.10	139		
16:16		2		32	20.87	22.13	6.86	1.15	268	NA	
16:17		2		33	20.93	22.18	6.87	1.13	366		
16:18		2	27	~~34~~	21.51	22.06	6.88	1.09	431	NA	

WELL DEVELOPMENT DATA SHEET

WELL ID MW-6R

PROJECT NAME: 3519 Castro Valley Blvd, Castro Valley	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisk

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE: HSA		DATE OF DEVELOPMENT: 8-16-10
BAILER TYPE: Steele	PUMP TYPE: grundfos	
DESCRIPTION OF DEVELOPMENT: Surge w/ steel, bail w/steel bailer, pump w/grundfos when clear enough of sediment. take parameters @ preset point		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
~~28.56~~ / 28.5	hard / hard	9.70	18.16	(2)	4	6	(0.16)	0.65	1.47	2.9	14.53

Surface

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
22	28	6

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
10:40	start	surging									
10:50	10	0	0	0.5	9.70	20.60	7.61	0.958	-5.0	earthy	brown
11:02	12	0.5	1.72	5.5	11.72	21.01	7.66	0.95	-5.0	earthy	brown
11:17	15	1.59	3.45	15.5	16.36	20.10	7.39	0.982	322	earthy	slightly cloudy
11:23	6	1.59	3.45	25.5	16.61	19.95	6.97	0.952	145	earthy	vr slightly cloudy
11:29	6	1.59	3.45	35.5	16.62	19.98	6.80	0.932	84.6	NA	clear
11:32	3	1.59	~~3.45~~ 1.75	40.5	16.63	19.98	6.75	0.929	57.2	NA	Clear
11:35	3	1.59	1.75	45.5	16.62	19.97	6.73	0.927	40.9	NA	clear

Horiba Water quality - from monitor EF

+1, 3, 10 °/o

WELL DEVELOPMENT DATA SHEET

WELL ID MW-7B

PROJECT NAME: 3519 Castro Valley Blvd, C.V	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitor	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE: HSA		DATE OF DEVELOPMENT: 8-16-10
BAILER TYPE: Steel	PUMP TYPE: Grundfos VFD	
DESCRIPTION OF DEVELOPMENT: Surge, metal bailer, switch to pump after 1.5 feet		
MEASURING POINT (MP) ELEVATION (FMSL):		

DTW 9.29

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
29.7 / 29.65	hard / hard	9.29	20.41	(2)	4	6	(0.16)	0.65	1.47	3.26	16.33

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
24	30	6

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
9:15	Start	Surging	~~0~~	~~0~~	~~9.28~~	~~20.85~~	~~7.78~~	1.05	571.0	earthy	slightly cloudy
9:25	10 min	0	0	0	9.28	20.05	7.78	1.05	571.0	earthy	
9:33	8 min	1.25	1.5	5	11.60	19.95	9.81	0.937	-5.0	earthy	
	Setting up	pump-	~~1.5~~ 3.07	voltage	problem -	start	pump @09:58				
10:05	7 min	2		15	17.15	19.79	7.78	0.908	284	NA	~~dry~~ slightly cloudy
10:12	7min	2	3.07	~~25~~	16.90	19.61	7.25	0.918	145	NA	clear
10:15	3min	2	1.5	30	17.13	19.68	7.06	0.905	184		
10:17	2.5min	2	1.5	35	17.13	19.65	6.96	0.914	168	NA	
10:19	2.5min	2	1.5	40	17.18	19.67	6.89	0.915	162	NA	

1-drum

WELL DEVELOPMENT DATA SHEET

WELL ID SoMA-9

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE: HSA		DATE OF DEVELOPMENT: 8-16-10
BAILER TYPE: Steel	PUMP TYPE: ~~grundfos~~ peristaltic	
DESCRIPTION OF DEVELOPMENT:		
MEASURING POINT (MP) ELEVATION (FMSL):		

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
15.9 /	hard /	6.91	9.00	(2)	4	6	(0.16)	0.65	1.47	1.44	7.2

Surface

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
5	15	10

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
16:35	Start Surging										Strong petro odor
16:50	15	0.3		5		21.36	6.87	2.41	-0.0	Petro	Sheen
17:00	dry			7						st petro	
17:00	add 5 gallons & surge										
17:05				13		24.07	7.14	0.97	-0.0	st petro	Cloudy
17:55				20	12.78	21.40	7.09	1.08	-5.0	mild petro	
let	recharge over night				8.54	8-17-10	11:35 am				
11:35	Surge										

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID SMA-7

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-17-10
PROJECT NO.: 27162	PREPARED BY: Erica Fisher

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
11:40	pump			0	8.54	21.01	6.92	1212	999	petro	brown
11:49	9		1.5	2.5		21.58	6.81	1148	999		
11:52	3		0.3	3.0		21.63	6.78	1183	999	petro	
12:00	8		1.2	5.0	13.02	21.22	7.01	1182	999	petro	
12:06	6		1.0	7.0	14.70	21.12	6.64	1259	999	petro	
12:15	9	dry - left running		7.5							
12:30	start pumping			7.5	13.6	21.69	6.94	1211	999	sl petro	cloudy
12:38	8		0.3	8.0		21.23	6.75	1140	649	petro	cloudy
12:42	4		0.6	9.0	13.92	20.90	6.71	1132	626	petro	sl cloudy
12:46	4			9.5		21.13	6.69	1149	878		
12:50	4			10.0		21.34	6.68	1161	862	petro	
12:58	6			11.5		21.32	6.68	1224	999		
13:06	8			12		21.56	6.79	1209	649	petro	
13:10	4			12.25	14.7	21.69	6.69	1209	383	petro	
13:14	4			12.5	DRY	21.69	6.69	1195	1000	petro	
13:30	16			12.5		21.90	6.79	1197	892	petro	
13:33	3			12.75		21.83	6.68	1142	71.7	petro	no sheen
13:36	3			13	14.18	21.83	6.68	1186	37.9	petro	
13:39	3			13.25	14.22	21.69	6.66	1123	45.6	petro	
13:46				13.4		21.69	6.66	1123	58.6	petro	
13:41				13.5		21.68	6.67	1126	57.7	petro	
13:42				13.6		21.67	6.67	1127	59.8	petro	

WELL DEVELOPMENT DATA SHEET

WELL ID SoMA-8

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-16-10
PROJECT NO.: 2762	PREPARED BY: Erica Fisher

WELL TYPE: monitoring	CONTRACTOR: RSI	OPERATOR: Jorge
RIG TYPE:		DATE OF DEVELOPMENT: 8-16-10
BAILER TYPE: steel	PUMP TYPE: ~~grundfos~~, peristaltic	
DESCRIPTION OF DEVELOPMENT:		
MEASURING POINT (MP) ELEVATION (FMSL):		

Horiba U-22

WELL TD (FBMP) Before/After	BOTTOM CONDITION Before/After (hard-soft)	SWL (FBMP)	WATER COLUMN (FT)	WELL DIAMETER (IN)			GALLONS/FOOT			1 CASING VOLUME (GAL)	5 CASING VOLUMES (GAL)
							2	4	6		
14.91 /	hard / hard	5.06	9.85	(2)	4	6	(0.16)	0.65	1.47	1.58	7.88

TOP OF WELL SCREEN (FBGS)	BOTTOM OF WELL SCREEN (FBGS)	LENGTH OF WELL SCREEN (FBGS)
5	15	10

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
12:35	Start	purge									
12:45	10	0	0	0	5.06	21.18	7.22	2.68	—	earthy	lot of silt
12:55	20	0.5	3	5	10.13	20.35	7.15	2.90	—	earthy	
13:05	let recharge		after	8 gallons							
13:35	60		4	9	13.12	20.91	7.68	2.58	9616		very silty
13:49				11		21.64	7.78	2.07	201		
14:06				12		20.67	7.27	1.65	-5.0		
15:10	add 5	gallons	& surge								

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID SOMA-8

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-16-10
PROJECT NO.: 27602	PREPARED BY: Erica Fisher

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
15:20	10	0.3		15		20.74	7.88	1.28	-5.0	NA	
	add	10 gal	& surge				-	~~0.628~~	~~-5.0~~		
16:05	45			21	11.80	22.19	7.56	0.637	-5.0	NA	
	purged			26							
1650	45			27	11.20	21.19	7.25	0.892	-5.0	NA	
1655	5			30		20.28	7.37	0.94	-5.0	NA	
add 5 1715	20			31		21.54	7.56	0.600	-5.0		
1725	10			34	13.62	21.59	7.38	0.811	-5.0	NA	
1750	25			36		21.01	7.41	0.680	-5.0		
let	recharge	overnight			11.33	9:50 am	8-17-10				
8-17-10											
9:50	Surge										
10:00	Start	pump		—	11.33	18.91	7.34	841	999	NA	
10:05	3	0.33	0.75	~~1~~		19.26	7.22	829	999	-	
10:08	3	~~0.33~~	0.75	2		19.09	7.20	845	999	—	
10:11	3	~~0.33~~	0.75	~~3~~ 2.5		19.08	7.17	892	999		
10:14	3	~~0.25~~	0.75	~~3~~ 3.0	12.80	19.07	6.96	903	999	—	
10:25	11			4.0	13.00	19.22	6.78	891	620	-	
10:32	7			4.5		19.16	6.80	879	995	-	
10:39	7			5		19.21	6.74	883	529	-	
10:46	7			5.5		19.34	6.74	881	698	-	
10:52	~~7~~ 6			6		19.42	6.71	881	774		
10:55	~~6.8~~			6.25		19.38	6.71	881	789		
10:58	3			6.50		19.35	6.78	880	809		

WELL DEVELOPMENT DATA SHEET
(continued)

WELL ID SOMA-8

PROJECT NAME: 3519 Castro Valley Blvd	DATE: 8-17-10
PROJECT NO.: 2762	PREPARED BY: Erica Fyhrie

TIME	ELAPSED TIME (MIN)	FLOW RATE (GPM)	CASING VOLUMES PURGED	VOLUME PURGED (GAL)	WATER LEVEL (FBMP)	TEMP. (°C)	Ph	CONDUCTIVITY (umhos/cm)	TURBIDITY (NTU)	ODOR	COMMENTS
11:02				8	14.8	19.41	6.89	912	999	–	brown
11:04				~~10~~ 8.5	.	19.26	6.84	917	999	–	brown slowed down flow
11:06				9		19.22	6.83	907	228	–	sl cloudy
11:09				9.5	14.55	19.38	6.76	900	51.0	–	clear
11:13				10	14.55	19.38	6.74	890	52.4	–	clear

ENVIRONMENTAL ENGINEERING, INC

Well No.:	ESE-1R	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	24.53 feet		Castro Valley, CA
Top of Casing Elevation:	180.20 feet	**Date:**	August 30, 2010
Depth to Groundwater:	10.17 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	170.03 feet		
Water Column Height:	14.36 feet		
Purged Volume:	8 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☑		
Sampling Method:	**Bailer** ☑	**Pump** ☐		
Color:	**No** ☐	**Yes** ☑	**Describe:**	Cloudy
Sheen:	**No** ☑	**Yes** ☐	**Describe:**	
Odor:	**No** ☐	**Yes** ☑	**Describe:**	Very Slight Petro

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
12:33	Started purging well			
12:34	2	6.84	21.5	879
12:35	4	6.83	21.0	875
12:36	6	6.84	20.8	859
12:37	8	6.86	20.8	841
12:42	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	ESE-2R	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	27.54 feet		Castro Valley, CA
Top of Casing Elevation:	180.70 feet	**Date:**	August 30, 2010
Depth to Groundwater:	10.61 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	170.09 feet		
Water Column Height:	16.93 feet		
Purged Volume:	8 gallons		

Purging Method:	**Bailer** ☐		**Pump** ☑		
Sampling Method:	**Bailer** ☑		**Pump** ☐		
Color:	**No** ☐		**Yes** ☑	**Describe:**	Cloudy
Sheen:	**No** ☑		**Yes** ☐	**Describe:**	
Odor:	**No** ☑		**Yes** ☐	**Describe:**	

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
13:05	Started purging well			
13:06	2	6.85	21.3	892
13:07	4	6.72	21.0	875
13:08	6	6.70	21.0	870
13:09	8	6.70	21.1	867
13:14	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	ESE-5R	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	23.54 feet		Castro Valley, CA
Top of Casing Elevation:	178.64 feet	**Date:**	August 30, 2010
Depth to Groundwater:	8.97 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	169.67 feet		
Water Column Height:	14.57 feet		
Purged Volume:	8 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☑			
Sampling Method:	**Bailer** ☑	**Pump** ☐			
Color:	**No** ☐	**Yes** ☑	**Describe:**	Cloudy	
Sheen:	**No** ☑	**Yes** ☐	**Describe:**		
Odor:	**No** ☐	**Yes** ☑	**Describe:**	Very Slight Petro	

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
14:25	Started purging well			
14:26	2	7.39	21.5	943
14:27	4	7.72	21.7	908
14:28	6	7.70	21.3	791
14:29	8	7.67	21.0	807
14:34	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-6R	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	27.57 feet		Castro Valley, CA
Top of Casing Elevation:	181.34 feet	**Date:**	August 30, 2010
Depth to Groundwater:	9.55 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	171.79 feet		
Water Column Height:	18.02 feet		
Purged Volume:	8 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☑		
Sampling Method:	**Bailer** ☑	**Pump** ☐		
Color:	**No** ☐	**Yes** ☑	**Describe:**	Slightly Cloudy
Sheen:	**No** ☑	**Yes** ☐	**Describe:**	
Odor:	**No** ☑	**Yes** ☐	**Describe:**	

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
13:41	Started purging well			
13:42	2	6.98	20.7	632
13:43	4	6.85	20.5	662
13:44	6	6.84	20.3	673
13:45	8	6.86	20.3	680
13:50	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	MW-7R	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	29.59 feet		Castro Valley, CA
Top of Casing Elevation:	179.14 feet	**Date:**	August 30, 2010
Depth to Groundwater:	9.39 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	169.75 feet		
Water Column Height:	20.20 feet		
Purged Volume:	10 gallons		

Purging Method:	**Bailer** ☐	**Pump** ☑			
Sampling Method:	**Bailer** ☑	**Pump** ☐			
Color:	**No** ☐	**Yes** ☑	**Describe:**	Cloudy/Brown	
Sheen:	**No** ☑	**Yes** ☐	**Describe:**		
Odor:	**No** ☑	**Yes** ☐	**Describe:**		

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
11:56	Started purging well			
11:57	2	7.02	20.9	821
11:59	6	6.93	20.2	823
12:00	8	7.06	20.1	795
12:01	10	7.04	20.0	776
12:06	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	SOMA-7	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	14.89 feet		Castro Valley, CA
Top of Casing Elevation:	178.54 feet	**Date:**	August 30, 2010
Depth to Groundwater:	7.63 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	170.91 feet		
Water Column Height:	7.26 feet		
Purged Volume:	_____ gallons		

Purging Method:	**Bailer**	☑	**Pump**	☐	
Sampling Method:	**Bailer**	☑	**Pump**	☐	
Color:	**No**	☐	**Yes**	☑	**Describe:** Cloudy/Brown
Sheen:	**No**	☑	**Yes**	☐	**Describe:**
Odor:	**No**	☐	**Yes**	☑	**Describe:** Petro odor

Field Measurements:

Time	Vol (gallons)	pH	Temp (^{0}C)	E.C. (µs/cm)
14:49	Started purging well			
14:51	1	6.86	22.2	1396
14:54	2	6.85	22.4	1299
14:57	3	6.88	22.0	1214
14:59	3.5	6.90	21.6	1147
15:04	Sampled			

ENVIRONMENTAL ENGINEERING, INC

Well No.:	SOMA-8	**Project No.:**	2761
Casing Diameter:	2 inches	**Address:**	3519 Castro Valley Blvd
Depth of Well:	14.89 feet		Castro Valley, CA
Top of Casing Elevation:	181.57 feet	**Date:**	August 30, 2010
Depth to Groundwater:	9.89 feet	**Sampler:**	Lizzie Hightower
Groundwater Elevation:	171.68 feet		
Water Column Height:	5.00 feet		
Purged Volume:	2.5 gallons		

Purging Method:	**Bailer** ☑	**Pump** ☐		
Sampling Method:	**Bailer** ☑	**Pump** ☐		
Color:	**No** ☐	**Yes** ☑	**Describe:**	Cloudy/Brown
Sheen:	**No** ☑	**Yes** ☐	**Describe:**	
Odor:	**No** ☑	**Yes** ☐	**Describe:**	

Field Measurements:

Time	Vol (gallons)	pH	Temp (°C)	E.C. (µs/cm)
14:02	Started purging well			
14:03	1	7.10	20.3	952
14:06	2	7.11	20.4	1002
14:08	2.5	7.09	20.3	951
14:13	Sampled			

APPENDIX D
Site Photographs

Plate 1. View of RSI drilling SOMA-7

Plate 2. View of RSI set-up over SOMA-8

Plate 3. View of RSI setting well in MW-6R

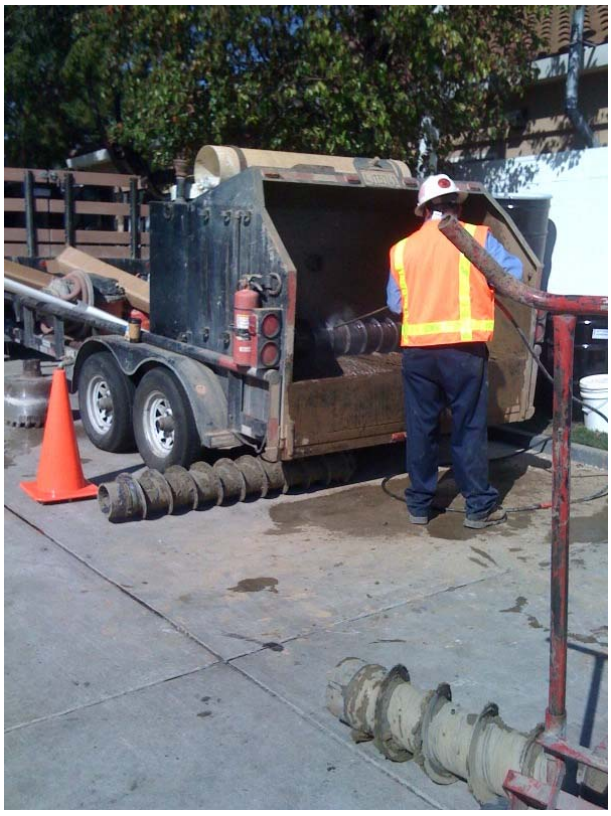


Plate 4. View of RSI pressure washing augers between wells

Plate 5. View of ESE-1 being concrete cored

Plate 6. View of RSI set-up over ESE-5R, facing west

Plate 7. View of soil core from MW-7R

Plate 8. View of ESE-1R being over drilled with 10-inch auger

Plate 9. View of SOMA-6 after grouting and completion to grade

Plate 10. View of SOMA-7 after finishing to grade

Plate 11. View of MW-6R and SOMA-8 facing North

Plate 12. View of development pump and hose

Plate 13. View of RSI grouting SOMA-9

Plate 14. View of MW-7R and SOMA-9 after finishing to grade

APPENDIX E
Well Survey Data and Waste Manifests

DATE: 08/30/2010
JOB# 10022

TABLE OF ELEVATIONS & COORDINATES ON MONITORING WELLS

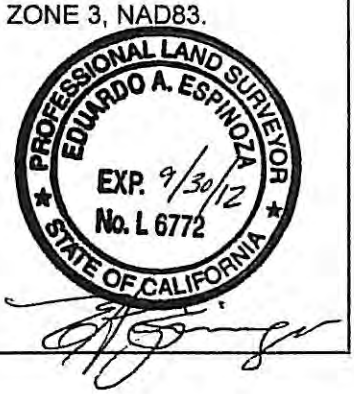
SOMA ENVIRONMENTAL ENGINEERING
3519 CASTRO VALLEY
CASTRO VALLEY, CA

WELL ID #	NORTHING (FT.) / LATITUDE (D.DEG.)	EASTING (FT.) / LONGITUDE (D.DEG.)	ELEVATION (FT.)	DESCRIPTION
ESE-1R	2079361.109	6106465.242	180.20	2" PVC NOTCH NORTH SIDE
	37.695019649N	122.073354886W	180.72	SET PUNCH NORTH SIDE RIM
			180.69	CONCRETE NORTH SIDE
ESE-2R	2079361.241	6106502.129	180.70	2" PVC NOTCH NORTH SIDE
	37.695021715N	122.073227422W	181.20	SET PUNCH NORTH SIDE RIM
			181.16	CONCRETE NORTH SIDE
ESE-5R	2079381.529	6106387.748	178.64	2" PVC NOTCH NORTH SIDE
	37.695072144N	122.073623872W	179.14	SET PUNCH NORTH SIDE RIM
			179.12	PAVEMENT NORTH SIDE
MW-6R	2079451.45	6106492.729	181.34	2" PVC NOTCH NORTH SIDE
	37.695268993N	122.073265147W	182.10	SET PUNCH NORTH SIDE RIM
			182.01	GROUND NORTH SIDE
SOMA-7	2079374.578	6106387.784	178.54	2" PVC NOTCH NORTH SIDE
	37.695053058N	122.073623344W	179.09	SET PUNCH NORTH SIDE RIM
			179.06	PAVEMENT NORTH SIDE
MW-7R	2079337.204	6106516.216	179.14	2" PVC NOTCH NORTH SIDE
	37.694956360N	122.073177344W	179.71	SET PUNCH NORTH SIDE RIM
			179.70	PAVEMENT NORTH SIDE
SOMA-8	2079453.231	6106488.22	181.57	2" PVC NOTCH NORTH SIDE
	37.695273676N	122.073280832W	182.03	SET PUNCH NORTH SIDE RIM
			181.92	GROUND NORTH SIDE

HORIZONTAL AND VERTICAL CONTROL
SURVEY BASED ON PREVIOUS SURVEY BY KIER & WRIGHT ENGINEERS SURVEYORS, INC. DATED: 6/21/2005
COORDINATE VALUES ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM, ZONE 3, NAD83.
ELEVATIONS ARE NAVD 88 DATUM.

SOMA-1, NOTCH
NORTHING 2,079,370.39, EASTING 6,106,506.79
ELEVATION 180.95

SOMA-2, NOTCH
NORTHING 2,079,297.44, EASTING 6,106,567.02
ELEVATION 178.99



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

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No.: None

Manifest Document No.: 34974.02 2. Page 1 of 1

3. Generator's Name and Mailing Address: Sonia Environmental (Micaiah Shalom) 3619 Castle Valley Blvd. Castle Valley, CA 94518
6620 Owens Drive Ste. A
Pleasanton, CA 94550
4. Generator's Phone: 925 / 485-4437

5. Transporter 1 Company Name: Advanced Chemical Transport
6. US EPA ID Number: CAD000705410
A. State Transporter's ID:
B. Transporter 1 Phone: (408) 541-9580

7. Transporter 2 Company Name:
8. US EPA ID Number:
C. State Transporter's ID:
D. Transporter 2 Phone:

9. Designated Facility Name and Site Address: US Ecology Nevada, Inc
P.O. Box 578, Hwy 11 miles S. Beatty
Beatty, NV. 89003
10. US EPA ID Number: NVT000710000
E. State Facility's ID:
F. Facility's Phone: 800-239-3943

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous waste liquid (purged water)	14	DM	770	G
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a.) _____; SOU-001-014 [14x55gal]
0701377471-1441

H. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: ERICA FISHER
Signature: Erica Fisher
Date: Month 08 Day 27 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tyrone Melrose
Signature: Tyrone Melrose
Date: Month 08 Day 27 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: H. FISCHER
Signature:
Date: Month 10 Day 28 Year 10

CF14 © 2007 LABELMASTER® (800) 621-5808 www.labelmaster.com

NON-HAZARDOUS WASTE MANIFEST DH09161003

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

NON-HAZARDOUS WASTE MANIFEST

1. Generator's US EPA ID No. None / EXEMPT
Manifest Document No. 24979-01
2. Page 1 of 1

3. Generator's Name and Mailing Address
Soma Environmental (Mirazim Shakoori) 3519 Castro Valley Blvd.
6620 Owens Drive Ste. A Castro Valley, Ca. 94546
Pleasanton, Ca. 94550
4. Generator's Phone (925) 885-4437

5. Transporter 1 Company Name: Advanced Chemical Transport
6. US EPA ID Number: CAD000705411
A. State Transporter's ID:
B. Transporter 1 Phone: 408-548-5050

7. Transporter 2 Company Name
8. US EPA ID Number
C. State Transporter's ID
D. Transporter 2 Phone

9. Designated Facility Name and Site Address
Waste Management
35251 Old Skyline Road
P.O. Box 471
Kettleman City, Ca. 93239
10. US EPA ID Number: CAT000646117
E. State Facility's ID
F. Facility's Phone: 559-834-9151

11. WASTE DESCRIPTION	12. Containers No.	Type	13. Total Quantity	14. Unit Wt./Vol.
a. Non Hazardous waste solid (Soil Cuttings)	15	DM	1,440	P
b.				
c.				
d.				

G. Additional Descriptions for Materials Listed Above
11a.) 6014167CA; SOW=
Project Number: 24979

H. Handling Codes for Wastes Listed Above
a. H130

15. Special Handling Instructions and Additional Information

16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.

Printed/Typed Name: Erica Fister
Signature: Erica Fister
Date: Month 08 Day 27 Year 10

TRANSPORTER

17. Transporter 1 Acknowledgement of Receipt of Materials
Printed/Typed Name: Tyrian Melrose
Signature: Tyrian Melrose
Date: Month 08 Day 27 Year 10

18. Transporter 2 Acknowledgement of Receipt of Materials
Printed/Typed Name:
Signature:
Date: Month Day Year

FACILITY

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in Item 19.
Printed/Typed Name: Rose Salazar
Signature:
Date: Month 09 Day 16 Year 10

APPENDIX F

Laboratory Analytical Report and Chain of Custody Form

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

Laboratory Job Number 221856
ANALYTICAL REPORT

SOMA Environmental Engineering Inc.	Project : 2762
6620 Owens Dr.	Location : 3519 Castro Valley Blvd Castro Valley
Pleasanton, CA 94588	Level : II

Sample ID	Lab ID
SOMA-6@9FT	221856-001
SOMA-6@11.5FT	221856-002
SOMA-7@2.5FT	221856-003
SOMA-7@10FT	221856-004
SOMA-8@7.5FT	221856-005
SOMA-8@12.5FT	221856-006
SOMA-9@7FT	221856-007
SOMA-9@13.5FT	221856-008
SOMA-7@9FT	221856-009

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: _____ Date: 08/24/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**221856**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2762**
Location:	**3519 Castro Valley Blvd Castro Valley**
Request Date:	**08/13/10**
Samples Received:	**08/13/10**

This data package contains sample and QC results for nine soil samples, requested for the above referenced project on 08/13/10. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):
Matrix spikes were not performed for this analysis in batch 166083 due to insufficient sample amount. Low recovery was observed for gasoline C7-C12 in the MSD for batch 166036; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits. No other analytical problems were encountered.

TPH-Extractables by GC (EPA 8015B):
Matrix spikes QC556906,QC556907 (batch 166115) were not reported because the parent sample required a dilution that would have diluted out the spikes. SOMA-7@2.5FT (lab # 221856-003) was diluted due to the dark and viscous nature of the sample extract. No other analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
High recoveries were observed for 1,1-dichloroethene and trichloroethene in the MS/MSD for batch 166201; the parent sample was not a project sample, the BS/BSD were within limits, the associated RPDs were within limits, and these analytes were not detected at or above the RL in the associated samples. Low surrogate recoveries were observed for dibromofluoromethane in the MS/MSD for batch 166201; the parent sample was not a project sample. SOMA-7@10FT (lab # 221856-004) was diluted due to high non-target analytes. SOMA-7@9FT (lab # 221856-009) was diluted due to high hydrocarbons. No other analytical problems were encountered.

CHAIN OF CUSTODY

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

LOGIN # 221856

Sampler: Erica Fisker

Project No: 2762

Report To: Joyce Bobek

Project Name: 3519 Castro Valley Blvd, Castro Valley

Company : SOMA Environmental

Turnaround Time: Standard

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date	Time	Matrix: Soil	Water	Waste	# of Containers	Preservative: HCL	H_2SO_4	HNO_3	ICE	Analyses: TPH-g, TPH-d, TPH-mo Method 8015D	BTEX, MtBE Method 8260B	VOCs, Gas Ox, Pb Scavengers Method 8260B (Full List)
1	SOMA-6 @ 9 ft	8-9-10	13:05	*			6-inch sleeve				*	*	*	*
2	SOMA-6 @ 11.5 ft	8-9-10	15:10	*			6-inch sleeve				*	*	*	*
3	SOMA-7 @ 2.5 ft	8-9-10	11:42	*			6-inch sleeve				*	*	*	*
4	SOMA-7 @ 10 ft	8-9-10	13:43	*			6-inch sleeve				*	*	*	*
5	SOMA-8 @ 7.5 ft	8-9-10	10:42	*			6-inch sleeve				*	*	*	*
6	SOMA-8 @ 12.5 ft	8-9-10	10:50	*			6-inch sleeve				*	*	*	*
7	SOMA-9 @ 7 ft	8-9-10	16:44	*			6-inch sleeve				*	*	*	*
8	SOMA-9 @ 13.5 ft	8-9-10	16:50	*			6-inch sleeve				*	*	*	*
9	SOMA-7 @ 9 ft	8-9-10	13:37	*			6-inch sleeve				*	*	*	*

Notes: **EDF OUTPUT REQUIRED**
VOCs to include TBA, ETBE, DIPE, TAME, 1,2-DCA, EDB, and Ethanol

4.0

RELINQUISHED BY:	RECEIVED BY:
Erica Fisker 8-12-10 1133 DATE/TIME	Ruth Mathes 8-12-10 1133 DATE/TIME
Ruth Mathes 8-13-10 1055 DATE/TIME	8/13/10 1055 DATE/TIME
DATE/TIME	DATE/TIME

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Login # 721856 Date Received 8/13/10 Number of coolers 1
Client SOMA Project 5519 CASTRO VALLEY BLVD

Date Opened 8/13/10 By (print) S. EVANS (sign)
Date Logged in " By (print) " (sign) "

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

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

☐ Bubble Wrap ☐ Foam blocks ☒ Bags ☐ None
☐ Cloth material ☐ Cardboard ☐ Styrofoam ☐ Paper towels

7. Temperature documentation:

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None Temp(°C) 4.0

☐ 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. Are bubbles > 6mm absent in VOA samples? _____ YES NO (N/A)
16. Was the client contacted concerning this sample delivery? _____ YES NO
   If YES, Who was called? _____ By _____ Date: _____

COMMENTS

_____
_____
_____
_____
_____
_____
_____
_____

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received		

Field ID:	SOMA-6@9FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166034
Lab ID:	221856-001	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	57-146

Field ID:	SOMA-6@11.5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166034
Lab ID:	221856-002	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	13 Y	0.93

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	118	57-146

Field ID:	SOMA-7@2.5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166034
Lab ID:	221856-003	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	9.9 Y	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	123	57-146

Field ID:	SOMA-7@10FT	Diln Fac:	200.0
Type:	SAMPLE	Batch#:	166083
Lab ID:	221856-004	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	980 Y	200

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	112	57-146

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

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received		

Field ID:	SOMA-8@7.5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166034
Lab ID:	221856-005	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	103	57-146

Field ID:	SOMA-8@12.5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166036
Lab ID:	221856-006	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	101	57-146

Field ID:	SOMA-9@7FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166036
Lab ID:	221856-007	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	57-146

Field ID:	SOMA-9@13.5FT	Diln Fac:	1.000
Type:	SAMPLE	Batch#:	166036
Lab ID:	221856-008	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	ND	1.1

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	57-146

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

Curtis & Tompkins, Ltd.

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received		

Field ID:	SOMA-7@9FT	Diln Fac:	200.0
Type:	SAMPLE	Batch#:	166083
Lab ID:	221856-009	Analyzed:	08/18/10

Analyte	Result	RL
Gasoline C7-C12	430 Y	200

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	106	57-146

Type:	BLANK	Batch#:	166034
Lab ID:	QC556556	Analyzed:	08/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	57-146

Type:	BLANK	Batch#:	166036
Lab ID:	QC556567	Analyzed:	08/17/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	1.0

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	104	57-146

Type:	BLANK	Batch#:	166083
Lab ID:	QC556776	Analyzed:	08/18/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	0.20

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	94	57-146

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC556557	Batch#:	166034
Matrix:	Soil	Analyzed:	08/17/10
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.081	108	77-123

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	57-146

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	221858-003	Batch#:	166034
Matrix:	Soil	Sampled:	08/13/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/18/10

Type: MS Lab ID: QC556558

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	0.09864	10.64	9.994	93	38-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	109	57-146

Type: MSD Lab ID: QC556559

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.64	10.22	95	38-120	2	56

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	107	57-146

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC556566	Batch#:	166036
Matrix:	Soil	Analyzed:	08/17/10
Units:	mg/Kg		

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	0.9813	98	77-123

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	57-146

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Field ID:	ZZZZZZZZZZ	Diln Fac:	1.000
MSS Lab ID:	221879-003	Batch#:	166036
Matrix:	Soil	Sampled:	08/13/10
Units:	mg/Kg	Received:	08/16/10
Basis:	as received	Analyzed:	08/18/10

Type: MS Lab ID: QC556569

Analyte	MSS Result	Spiked	Result	%REC	Limits
Gasoline C7-C12	12.56	10.42	17.69	49	38-120

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	57-146

Type: MSD Lab ID: QC556570

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	10.64	16.18	34 *	38-120	10	56

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	113	57-146

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Total Volatile Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Batch#:	166083
Units:	mg/Kg	Analyzed:	08/18/10
Diln Fac:	1.000		

Type: BS Lab ID: QC556774

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1.000	1.015	102	77-123

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	100	57-146

Type: BSD Lab ID: QC556775

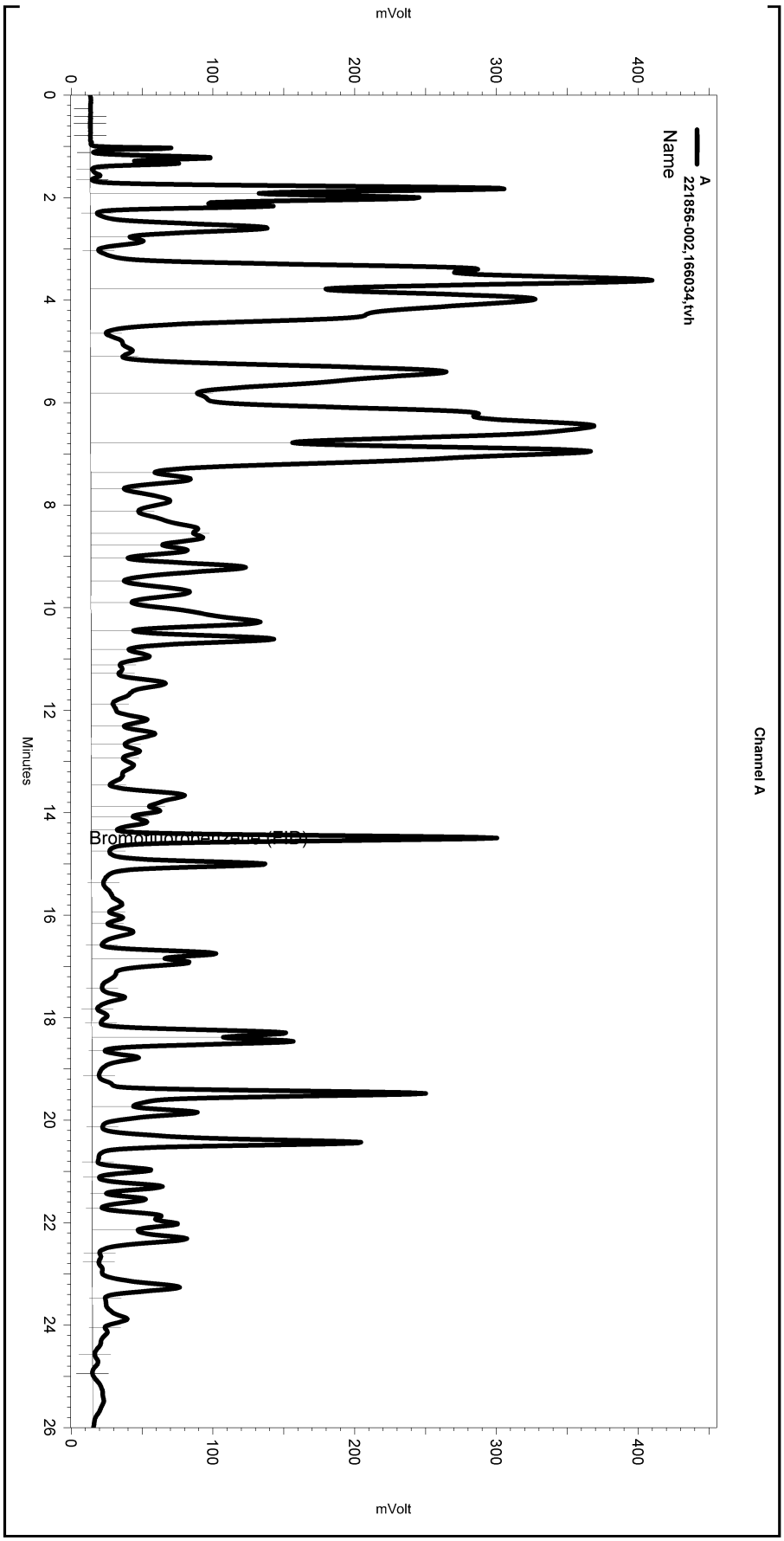
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1.000	1.109	111	77-123	9	26

Surrogate	%REC	Limits
Bromofluorobenzene (FID)	99	57-146

RPD= Relative Percent Difference

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\229.seq**
Sample Name: **221856-002,166034,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\229-028**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 8/18/2010 8:39:56 AM
Analysis Date: 8/18/2010 12:31:20 PM
Sample Amount: 1.07 Multiplier: 1.07
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

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

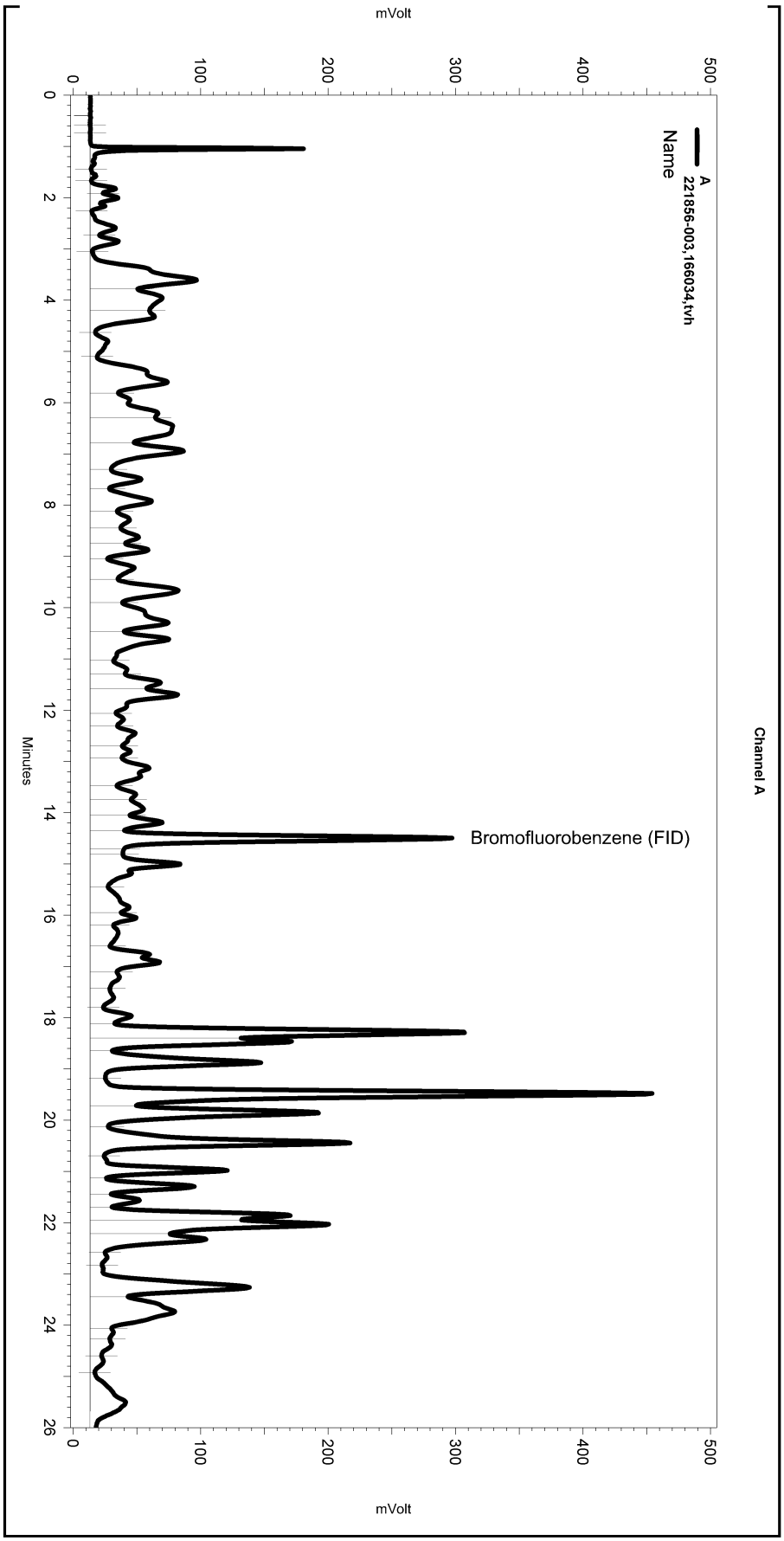
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\229-028

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

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\229.seq**
Sample Name: **221856-003,166034,tvh**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\229-029**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 8/18/2010 9:17:36 AM
Analysis Date: 8/18/2010 12:59:44 PM
Sample Amount: 0.97 Multiplier: 0.97
Vial & pH or Core ID: b



---< General Method Parameters >---

No items selected for this section

---< A >---

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

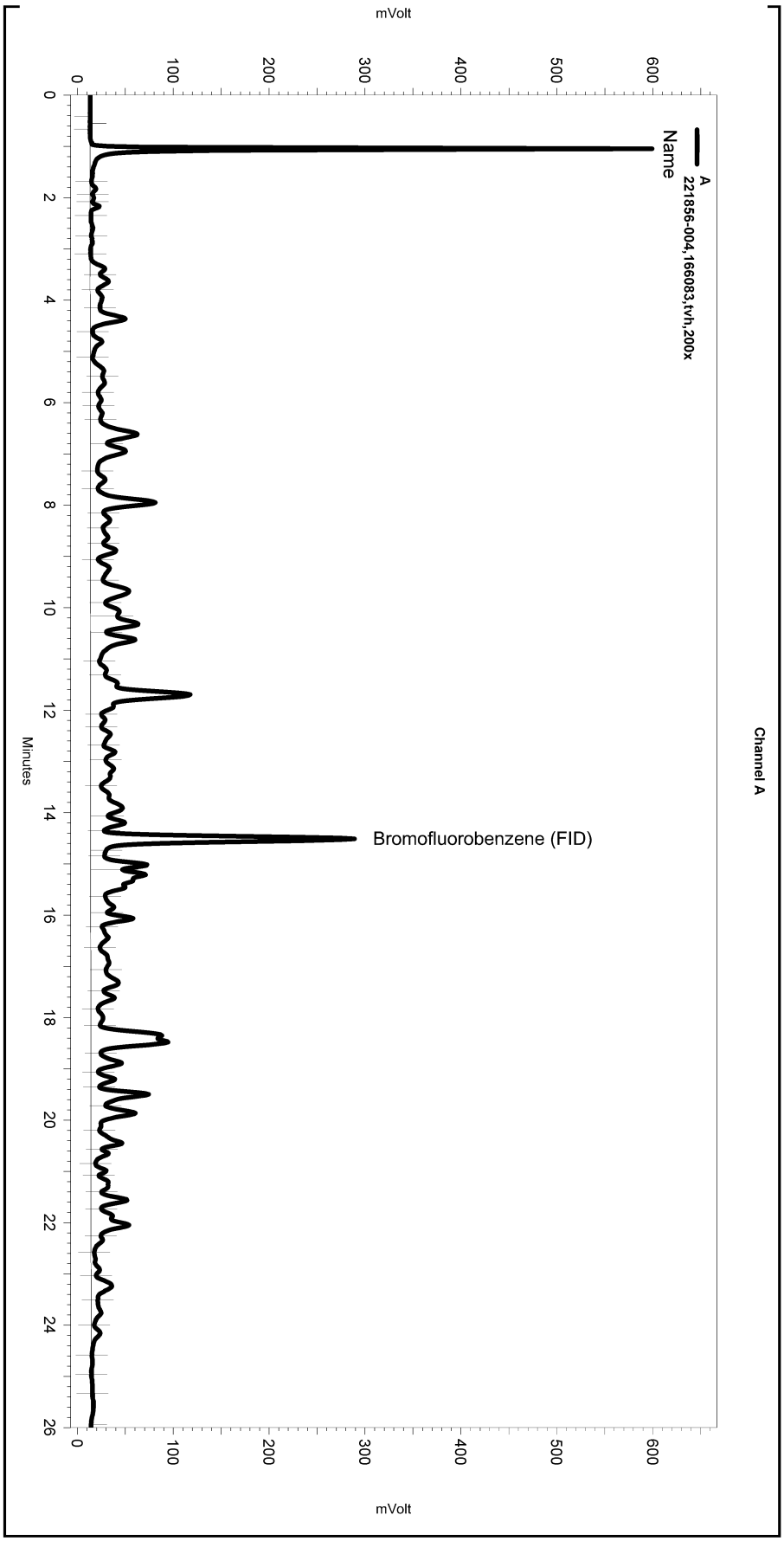
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\229-029

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Lowest Point Horizontal Baseli	0	26.017	0
Yes	Split Peak	14.716	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\230.seq**
Sample Name: **221856-004,166083,tvh,200x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\230-007**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 8/18/2010 8:17:18 PM
Analysis Date: 8/19/2010 1:37:52 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: b, DB322



---< General Method Parameters >---

No items selected for this section

---< A >---

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

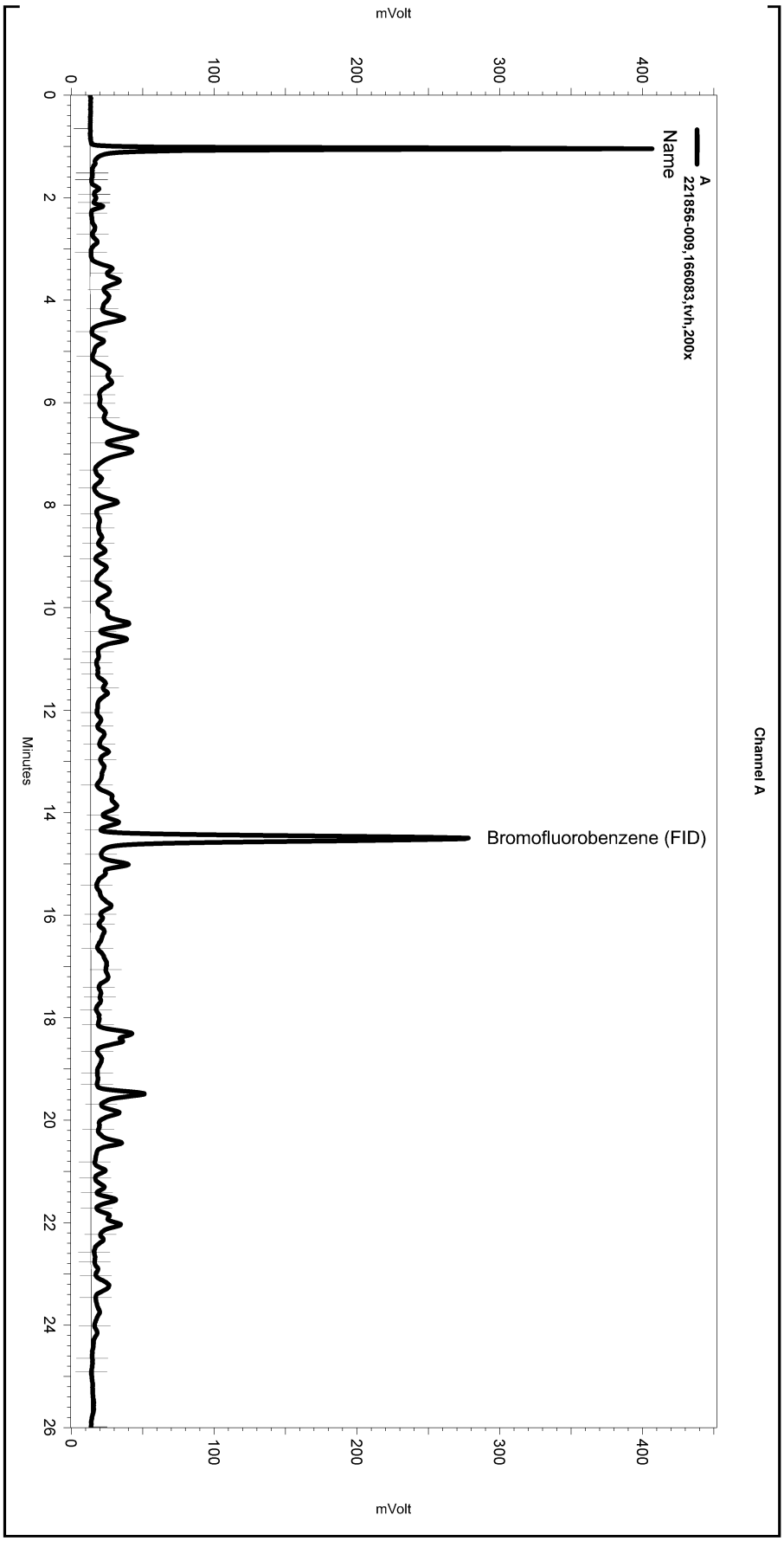
Manual Integration Fixes

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\230-007

Enabled	Event Type	Start (Minutes)	Stop (Minutes)	Value
Yes	Split Peak	14.737	0	0

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\230.seq**
Sample Name: **221856-009,166083,tvh,200x**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\230-008**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 8/18/2010 8:54:54 PM
Analysis Date: 8/19/2010 1:38:05 PM
Sample Amount: 1 Multiplier: 1
Vial & pH or Core ID: b, DB322



---< General Method Parameters >---

No items selected for this section

---< A >---

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

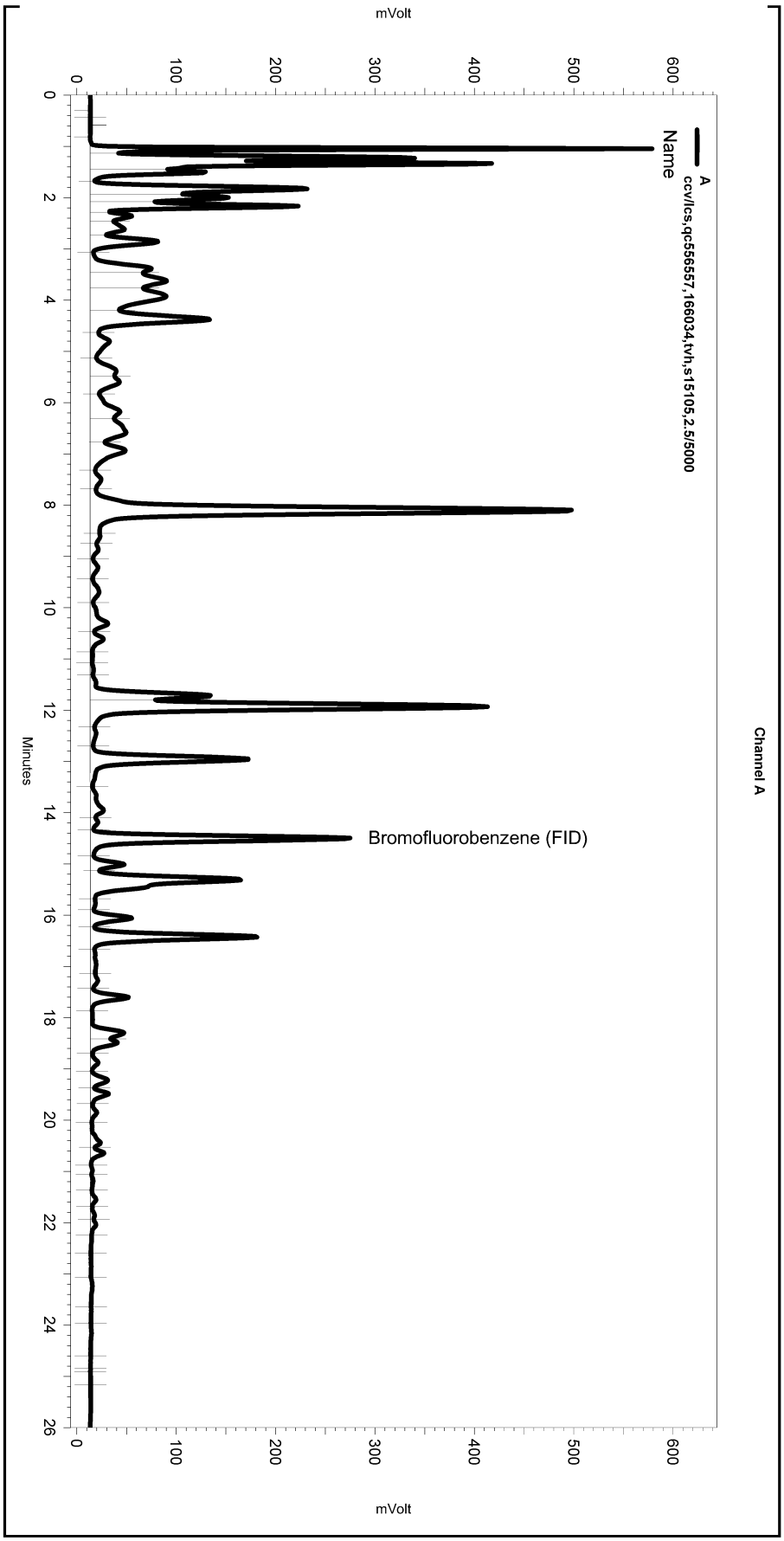
Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\230-008

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

None

Sequence File: **\\Lims\gdrive\ezchrom\Projects\GC04\Sequence\229.seq**
Sample Name: **ccv/lcs,qc556557,166034,tvh,s15105,2.5/5000**
Data File: **\\Lims\gdrive\ezchrom\Projects\GC04\Data\229-002**
Instrument: GC04 (Offline) Vial: N/A Operator: Tvh 1. Analyst (lims2k3\tvh1)
Method Name: \\Lims\gdrive\ezchrom\Projects\GC04\Method\tvhbtxe197.met

Software Version 3.1.7
Run Date: 8/17/2010 12:14:12 PM
Analysis Date: 8/18/2010 12:26:33 PM
Sample Amount: 5 Multiplier: 5
Vial & pH or Core ID: {Data Description}



---< General Method Parameters >---

No items selected for this section

---< A >---

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

Data File: \\Lims\gdrive\ezchrom\Projects\GC04\Data\229-002

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

None

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received	Prepared:	08/19/10
Batch#:	166115		

Field ID: SOMA-6@9FT
Type: SAMPLE
Lab ID: 221856-001
Diln Fac: 1.000
Analyzed: 08/19/10

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

Surrogate	%REC	Limits
o-Terphenyl	105	45-130

Field ID: SOMA-6@11.5FT
Type: SAMPLE
Lab ID: 221856-002
Diln Fac: 1.000
Analyzed: 08/19/10

Analyte	Result	RL
Diesel C10-C24	5.3 Y	0.99
Motor Oil C24-C36	16	5.0

Surrogate	%REC	Limits
o-Terphenyl	108	45-130

Field ID: SOMA-7@2.5FT
Type: SAMPLE
Lab ID: 221856-003
Diln Fac: 5.000
Analyzed: 08/19/10

Analyte	Result	RL
Diesel C10-C24	79	5.0
Motor Oil C24-C36	91	25

Surrogate	%REC	Limits
o-Terphenyl	106	45-130

Field ID: SOMA-7@10FT
Type: SAMPLE
Lab ID: 221856-004
Diln Fac: 1.000
Analyzed: 08/19/10

Analyte	Result	RL
Diesel C10-C24	370 Y	1.0
Motor Oil C24-C36	15	5.0

Surrogate	%REC	Limits
o-Terphenyl	106	45-130

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received	Prepared:	08/19/10
Batch#:	166115		

Field ID: SOMA-8@7.5FT
Type: SAMPLE
Lab ID: 221856-005
Diln Fac: 1.000
Analyzed: 08/19/10

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

Surrogate	%REC	Limits
o-Terphenyl	111	45-130

Field ID: SOMA-8@12.5FT
Type: SAMPLE
Lab ID: 221856-006
Diln Fac: 1.000
Analyzed: 08/19/10

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

Surrogate	%REC	Limits
o-Terphenyl	100	45-130

Field ID: SOMA-9@7FT
Type: SAMPLE
Lab ID: 221856-007
Diln Fac: 1.000
Analyzed: 08/20/10

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

Surrogate	%REC	Limits
o-Terphenyl	104	45-130

Field ID: SOMA-9@13.5FT
Type: SAMPLE
Lab ID: 221856-008
Diln Fac: 1.000
Analyzed: 08/20/10

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

Surrogate	%REC	Limits
o-Terphenyl	101	45-130

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Soil	Sampled:	08/09/10
Units:	mg/Kg	Received:	08/13/10
Basis:	as received	Prepared:	08/19/10
Batch#:	166115		

Field ID:	SOMA-7@9FT	Diln Fac:	1.000
Type:	SAMPLE	Analyzed:	08/19/10
Lab ID:	221856-009		

Analyte	Result	RL
Diesel C10-C24	170	0.99
Motor Oil C24-C36	63	5.0

Surrogate	%REC	Limits
o-Terphenyl	100	45-130

Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556904	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
o-Terphenyl	107	45-130

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

Curtis & Tompkins, Ltd.

Batch QC Report

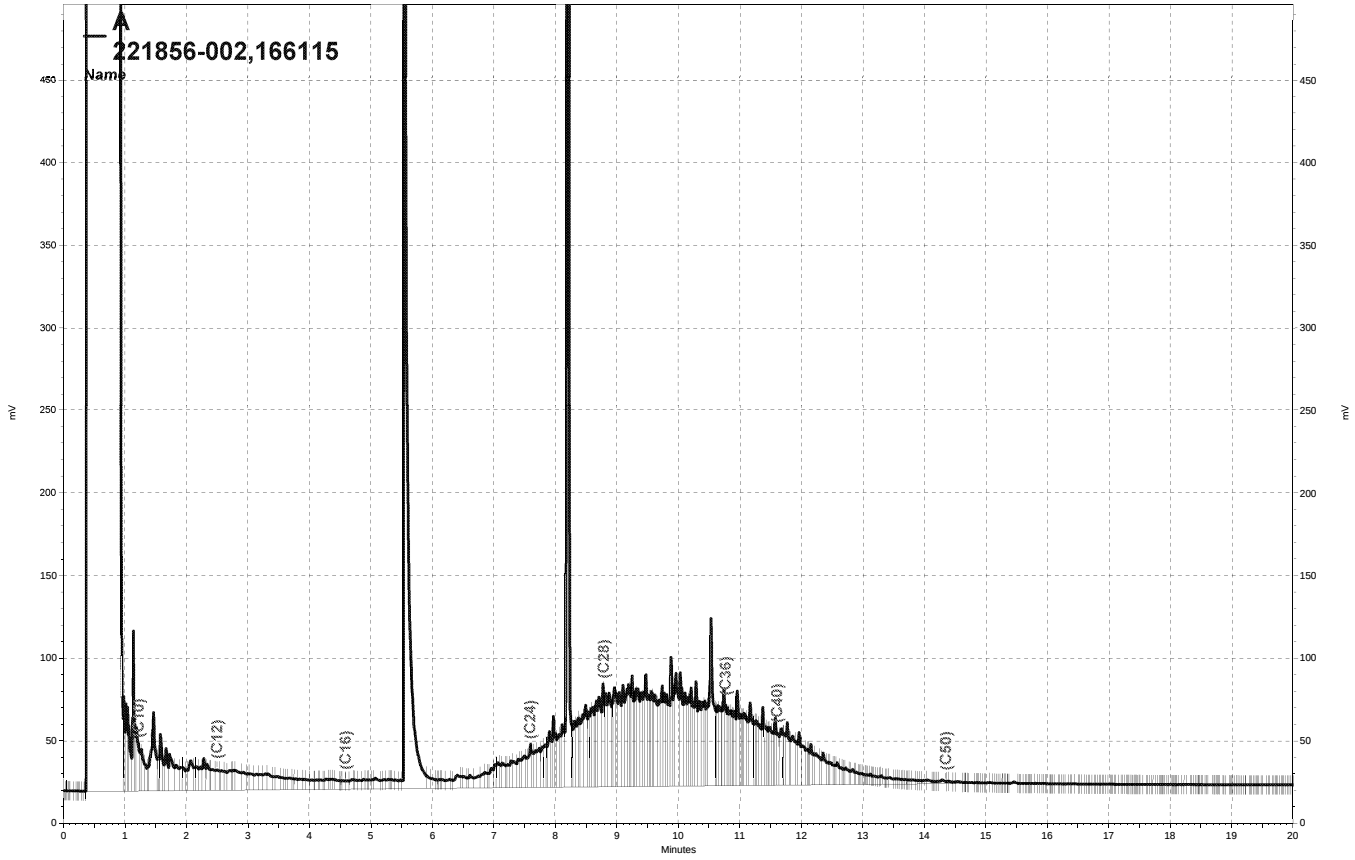
Total Extractable Hydrocarbons

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3550B
Project#:	2762	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC556905	Batch#:	166115
Matrix:	Soil	Prepared:	08/19/10
Units:	mg/Kg	Analyzed:	08/19/10

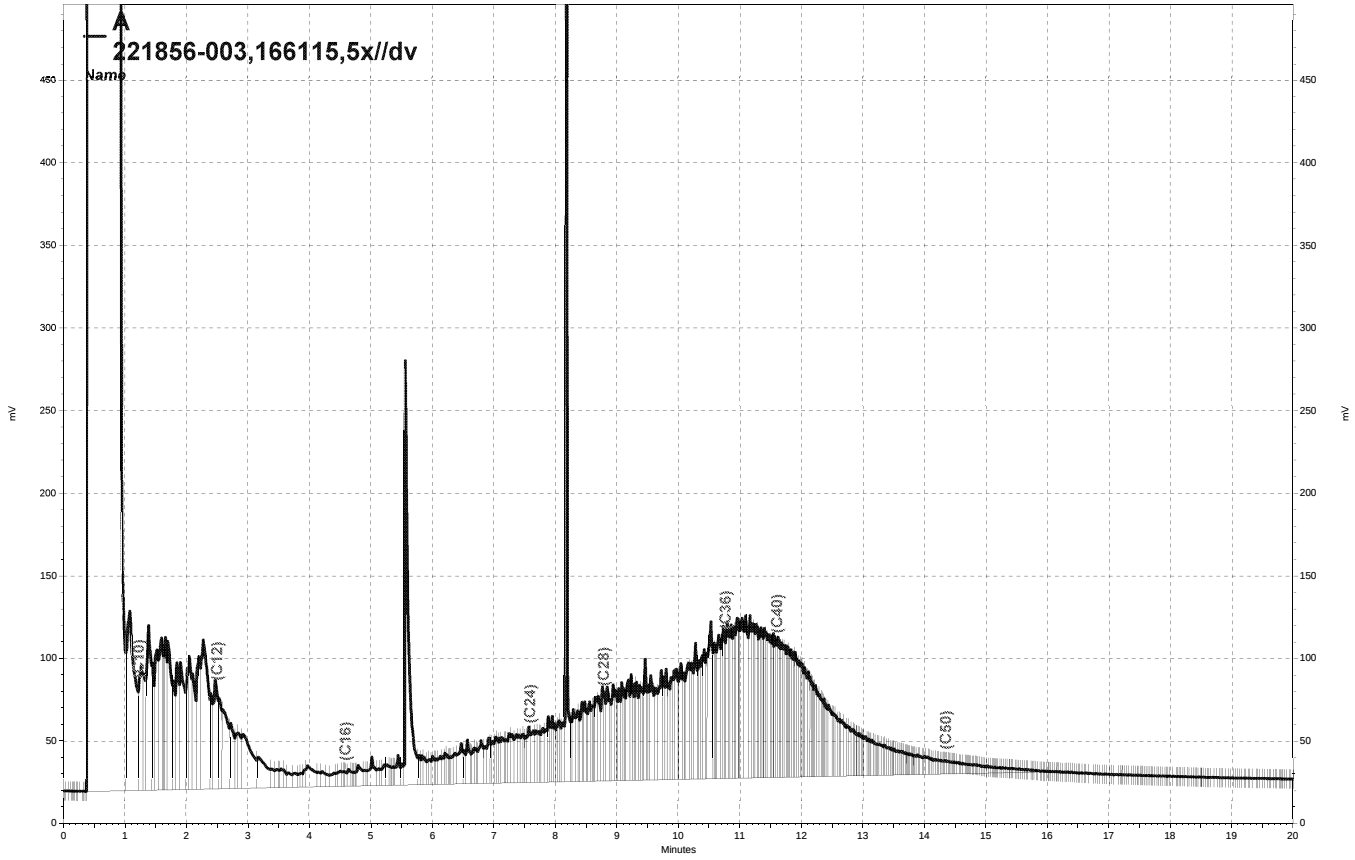
Cleanup Method: EPA 3630C

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	49.88	41.65	83	45-143

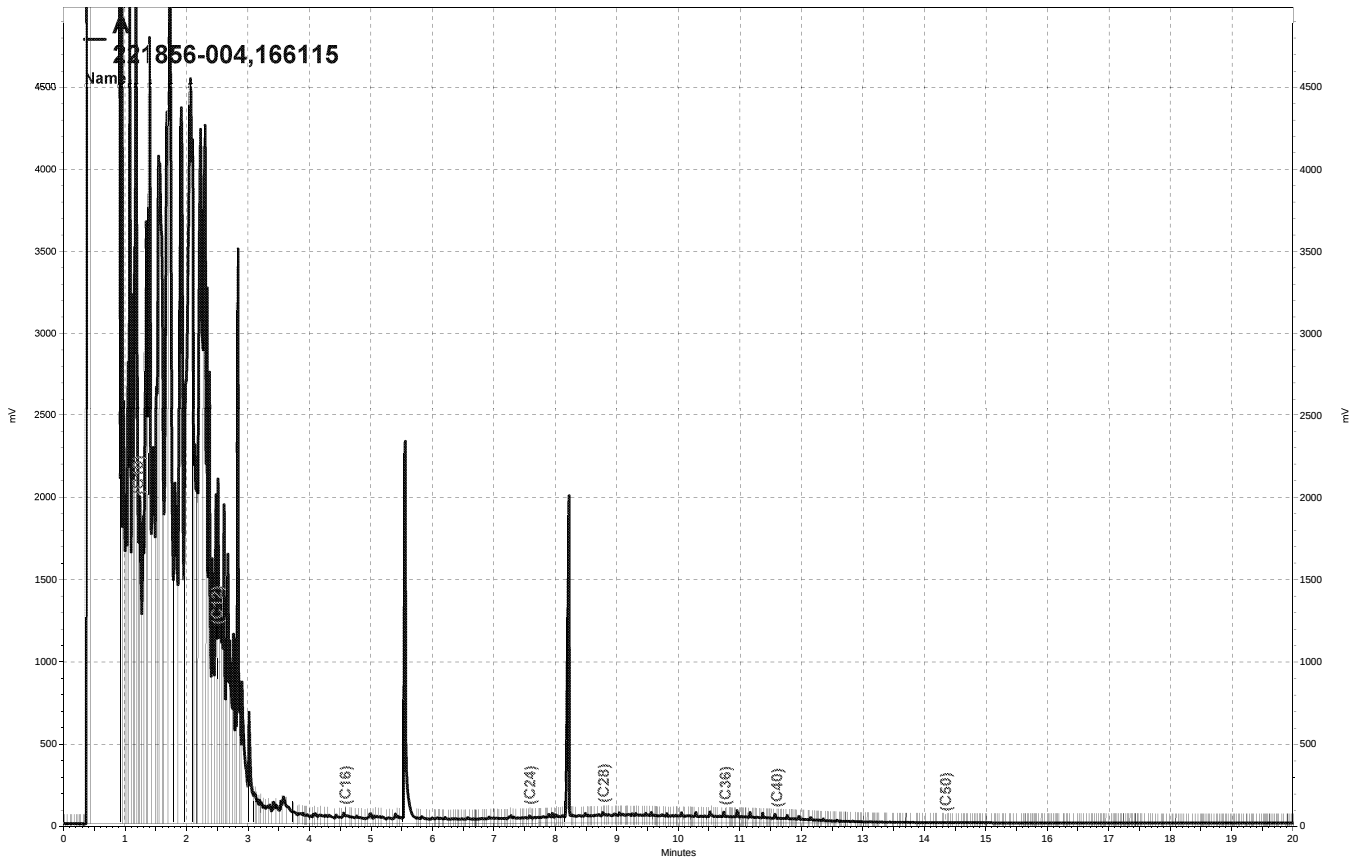
Surrogate	%REC	Limits
o-Terphenyl	78	45-130



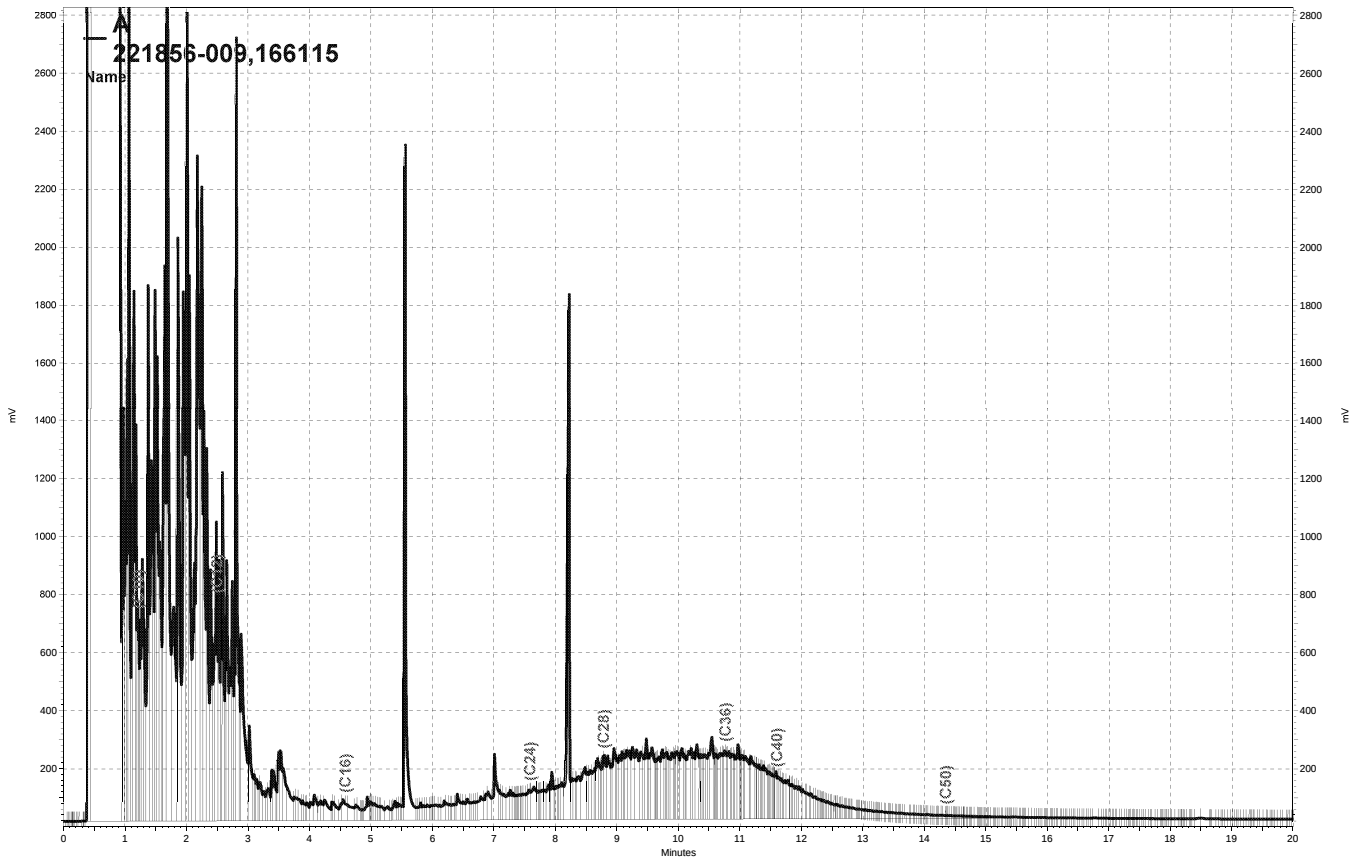
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a013, A



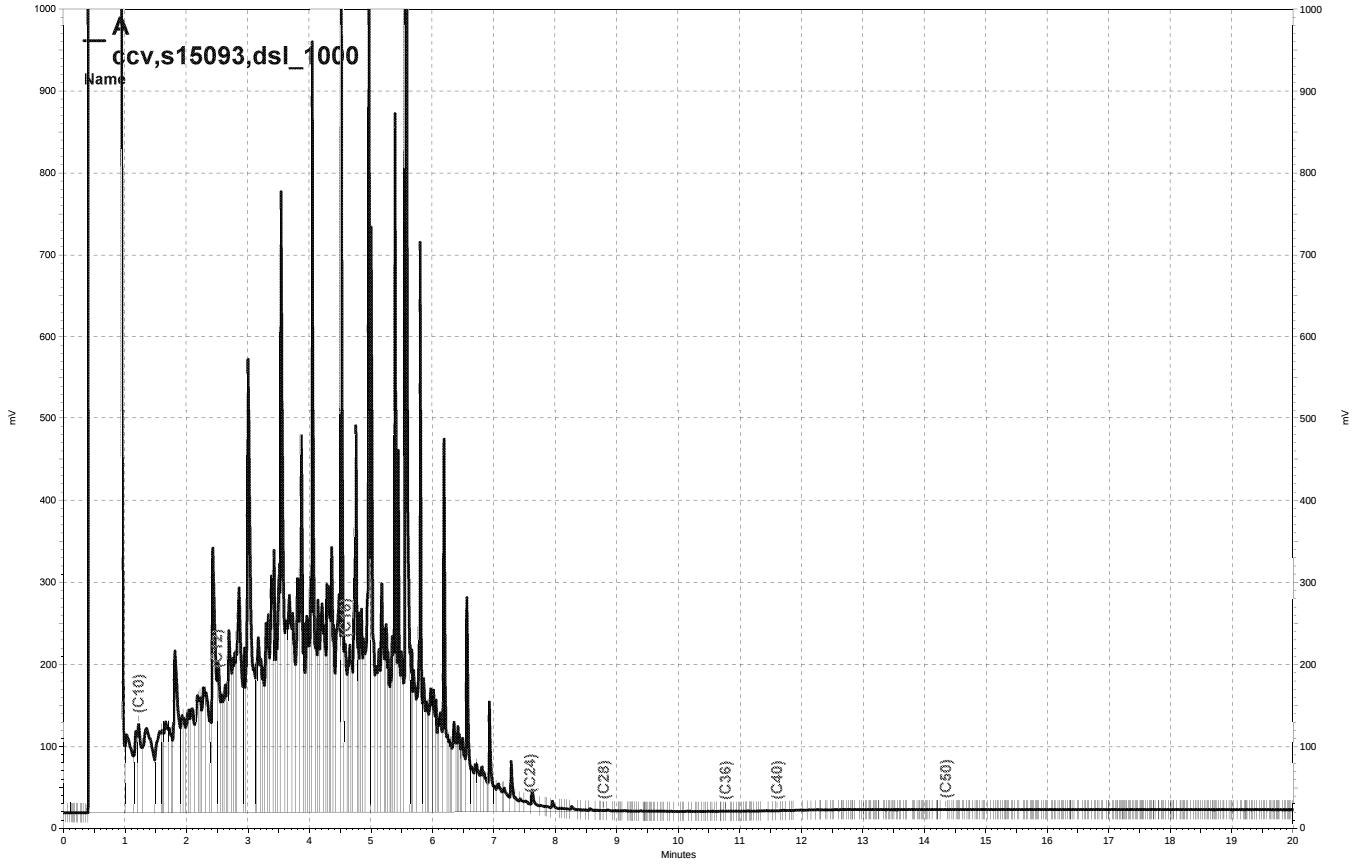
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a018, A



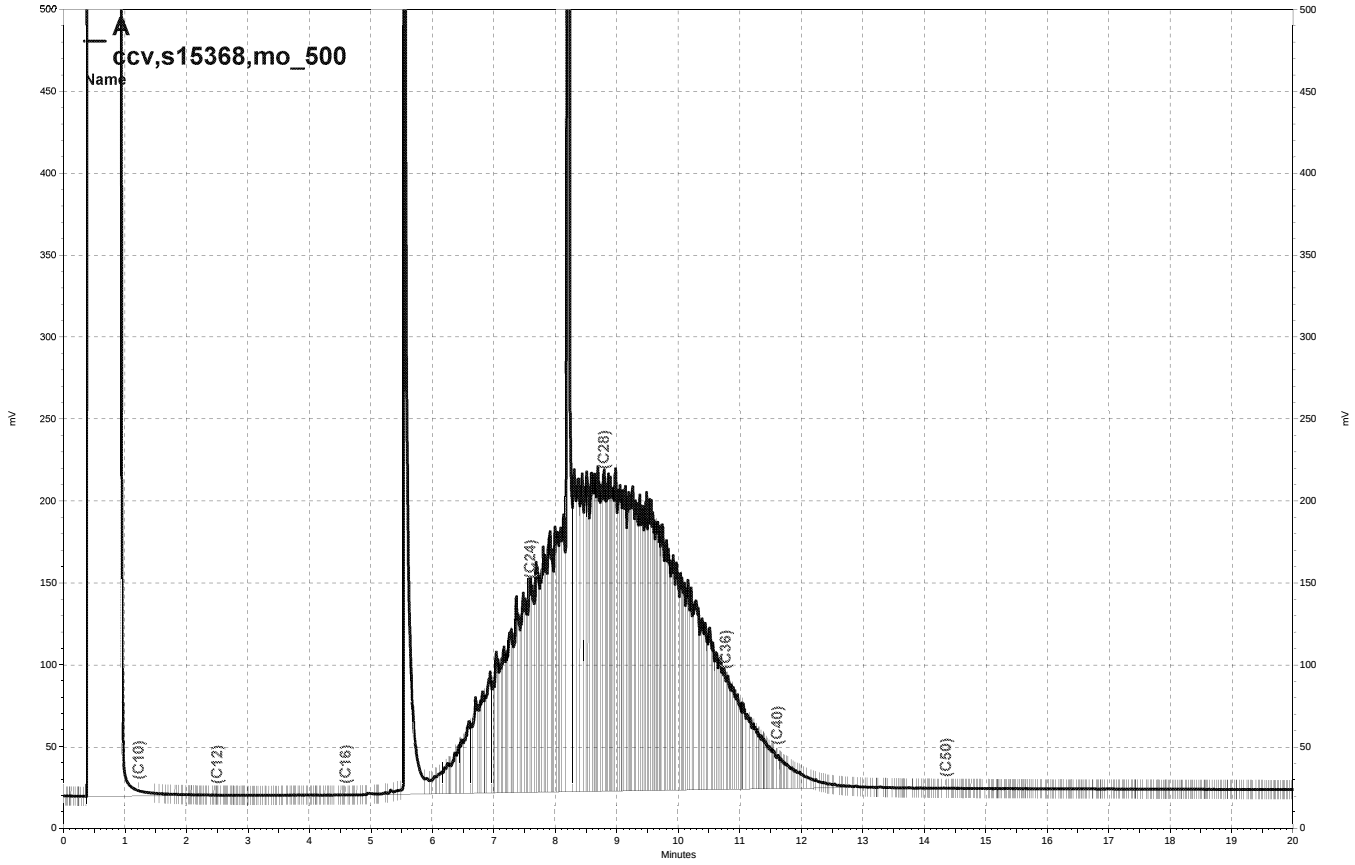
\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a014, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a015, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a010, A



\\Lims\gdrive\ezchrom\Projects\GC17A\Data\231a009, A

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-6@9FT	Diln Fac:	0.9560
Lab ID:	221856-001	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-6@9FT	Dil'n Fac:	0.9560
Lab ID:	221856-001	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-122
1,2-Dichloroethane-d4	101	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	100	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-6@11.5FT	Diln Fac:	0.9747
Lab ID:	221856-002	Batch#:	166201
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/23/10

Analyte	Result	RL
Freon 12	ND	9.7
tert-Butyl Alcohol (TBA)	ND	97
Chloromethane	ND	9.7
Isopropyl Ether (DIPE)	ND	4.9
Vinyl Chloride	ND	9.7
Bromomethane	ND	9.7
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
Chloroethane	ND	9.7
Methyl tert-Amyl Ether (TAME)	ND	4.9
Trichlorofluoromethane	ND	4.9
Ethanol	ND	970
Acetone	22	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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-6@11.5FT	Dil'n Fac:	0.9747
Lab ID:	221856-002	Batch#:	166201
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/23/10

Analyte	Result	RL
Propylbenzene	7.8	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	8.0	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	83	78-122
1,2-Dichloroethane-d4	87	68-152
Toluene-d8	93	80-120
Bromofluorobenzene	89	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@2.5FT	Diln Fac:	0.9843
Lab ID:	221856-003	Batch#:	166201
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/23/10

Analyte	Result	RL
Freon 12	ND	9.8
tert-Butyl Alcohol (TBA)	ND	98
Chloromethane	ND	9.8
Isopropyl Ether (DIPE)	ND	4.9
Vinyl Chloride	ND	9.8
Bromomethane	ND	9.8
Ethyl tert-Butyl Ether (ETBE)	ND	4.9
Chloroethane	ND	9.8
Methyl tert-Amyl Ether (TAME)	ND	4.9
Trichlorofluoromethane	ND	4.9
Ethanol	ND	980
Acetone	42	20
Freon 113	ND	4.9
1,1-Dichloroethene	ND	4.9
Methylene Chloride	ND	20
Carbon Disulfide	ND	4.9
MTBE	ND	4.9
trans-1,2-Dichloroethene	ND	4.9
Vinyl Acetate	ND	49
1,1-Dichloroethane	ND	4.9
2-Butanone	ND	9.8
cis-1,2-Dichloroethene	ND	4.9
2,2-Dichloropropane	ND	4.9
Chloroform	ND	4.9
Bromochloromethane	ND	4.9
1,1,1-Trichloroethane	ND	4.9
1,1-Dichloropropene	ND	4.9
Carbon Tetrachloride	ND	4.9
1,2-Dichloroethane	ND	4.9
Benzene	ND	4.9
Trichloroethene	ND	4.9
1,2-Dichloropropane	ND	4.9
Bromodichloromethane	ND	4.9
Dibromomethane	ND	4.9
4-Methyl-2-Pentanone	ND	9.8
cis-1,3-Dichloropropene	ND	4.9
Toluene	ND	4.9
trans-1,3-Dichloropropene	ND	4.9
1,1,2-Trichloroethane	ND	4.9
2-Hexanone	ND	9.8
1,3-Dichloropropane	ND	4.9
Tetrachloroethene	ND	4.9
Dibromochloromethane	ND	4.9
1,2-Dibromoethane	ND	4.9
Chlorobenzene	ND	4.9
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@2.5FT	Dil'n Fac:	0.9843
Lab ID:	221856-003	Batch#:	166201
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/23/10

Analyte	Result	RL
Propylbenzene	4.9	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	12	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	90	78-122
1,2-Dichloroethane-d4	97	68-152
Toluene-d8	91	80-120
Bromofluorobenzene	92	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@10FT	Diln Fac:	500.0
Lab ID:	221856-004	Batch#:	166110
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

Analyte	Result	RL
Freon 12	ND	5,000
tert-Butyl Alcohol (TBA)	ND	50,000
Chloromethane	ND	5,000
Isopropyl Ether (DIPE)	ND	2,500
Vinyl Chloride	ND	5,000
Bromomethane	ND	5,000
Ethyl tert-Butyl Ether (ETBE)	ND	2,500
Chloroethane	ND	5,000
Methyl tert-Amyl Ether (TAME)	ND	2,500
Trichlorofluoromethane	ND	2,500
Ethanol	ND	500,000
Acetone	ND	10,000
Freon 113	ND	2,500
1,1-Dichloroethene	ND	2,500
Methylene Chloride	ND	10,000
Carbon Disulfide	ND	2,500
MTBE	ND	2,500
trans-1,2-Dichloroethene	ND	2,500
Vinyl Acetate	ND	25,000
1,1-Dichloroethane	ND	2,500
2-Butanone	ND	5,000
cis-1,2-Dichloroethene	ND	2,500
2,2-Dichloropropane	ND	2,500
Chloroform	ND	2,500
Bromochloromethane	ND	2,500
1,1,1-Trichloroethane	ND	2,500
1,1-Dichloropropene	ND	2,500
Carbon Tetrachloride	ND	2,500
1,2-Dichloroethane	ND	2,500
Benzene	ND	2,500
Trichloroethene	ND	2,500
1,2-Dichloropropane	ND	2,500
Bromodichloromethane	ND	2,500
Dibromomethane	ND	2,500
4-Methyl-2-Pentanone	ND	5,000
cis-1,3-Dichloropropene	ND	2,500
Toluene	ND	2,500
trans-1,3-Dichloropropene	ND	2,500
1,1,2-Trichloroethane	ND	2,500
2-Hexanone	ND	5,000
1,3-Dichloropropane	ND	2,500
Tetrachloroethene	ND	2,500
Dibromochloromethane	ND	2,500
1,2-Dibromoethane	ND	2,500
Chlorobenzene	ND	2,500
1,1,1,2-Tetrachloroethane	ND	2,500
Ethylbenzene	9,000	2,500
m,p-Xylenes	ND	2,500
o-Xylene	ND	2,500
Styrene	ND	2,500
Bromoform	ND	2,500
Isopropylbenzene	3,200	2,500
1,1,2,2-Tetrachloroethane	ND	2,500
1,2,3-Trichloropropane	ND	2,500

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@10FT	Dil'n Fac:	500.0
Lab ID:	221856-004	Batch#:	166110
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

Analyte	Result	RL
Propylbenzene	12,000	2,500
Bromobenzene	ND	2,500
1,3,5-Trimethylbenzene	7,700	2,500
2-Chlorotoluene	ND	2,500
4-Chlorotoluene	ND	2,500
tert-Butylbenzene	ND	2,500
1,2,4-Trimethylbenzene	ND	2,500
sec-Butylbenzene	ND	2,500
para-Isopropyl Toluene	3,800	2,500
1,3-Dichlorobenzene	ND	2,500
1,4-Dichlorobenzene	ND	2,500
n-Butylbenzene	6,200	2,500
1,2-Dichlorobenzene	ND	2,500
1,2-Dibromo-3-Chloropropane	ND	2,500
1,2,4-Trichlorobenzene	ND	2,500
Hexachlorobutadiene	ND	2,500
Naphthalene	13,000	2,500
1,2,3-Trichlorobenzene	ND	2,500

Surrogate	%REC	Limits
Dibromofluoromethane	89	78-122
1,2-Dichloroethane-d4	87	68-152
Toluene-d8	111	80-120
Bromofluorobenzene	115	76-132
Trifluorotoluene (MeOH)	99	60-150

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@7.5FT	Diln Fac:	0.9363
Lab ID:	221856-005	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@7.5FT	Dil'n Fac:	0.9363
Lab ID:	221856-005	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-122
1,2-Dichloroethane-d4	104	68-152
Toluene-d8	97	80-120
Bromofluorobenzene	99	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@12.5FT	Diln Fac:	0.9416
Lab ID:	221856-006	Batch#:	166111
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@12.5FT	Dil'n Fac:	0.9416
Lab ID:	221856-006	Batch#:	166111
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
Dibromofluoromethane	95	78-122
1,2-Dichloroethane-d4	138	68-152
Toluene-d8	98	80-120
Bromofluorobenzene	119	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-9@7FT	Diln Fac:	0.9524
Lab ID:	221856-007	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

Analyte	Result	RL
Freon 12	ND	9.5
tert-Butyl Alcohol (TBA)	ND	95
Chloromethane	ND	9.5
Isopropyl Ether (DIPE)	ND	4.8
Vinyl Chloride	ND	9.5
Bromomethane	ND	9.5
Ethyl tert-Butyl Ether (ETBE)	ND	4.8
Chloroethane	ND	9.5
Methyl tert-Amyl Ether (TAME)	ND	4.8
Trichlorofluoromethane	ND	4.8
Ethanol	ND	950
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
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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-9@7FT	Dil'n Fac:	0.9524
Lab ID:	221856-007	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-122
1,2-Dichloroethane-d4	102	68-152
Toluene-d8	97	80-120
Bromofluorobenzene	99	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-9@13.5FT	Dil'n Fac:	0.9363
Lab ID:	221856-008	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-9@13.5FT	Dil'n Fac:	0.9363
Lab ID:	221856-008	Batch#:	166109
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/19/10

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

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-122
1,2-Dichloroethane-d4	102	68-152
Toluene-d8	99	80-120
Bromofluorobenzene	99	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@9FT	Diln Fac:	50.00
Lab ID:	221856-009	Batch#:	166160
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/20/10

Analyte	Result	RL
Freon 12	ND	500
tert-Butyl Alcohol (TBA)	ND	5,000
Chloromethane	ND	500
Isopropyl Ether (DIPE)	ND	250
Vinyl Chloride	ND	500
Bromomethane	ND	500
Ethyl tert-Butyl Ether (ETBE)	ND	250
Chloroethane	ND	500
Methyl tert-Amyl Ether (TAME)	ND	250
Trichlorofluoromethane	ND	250
Ethanol	ND	50,000
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
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	560	250
1,1,2,2-Tetrachloroethane	ND	250
1,2,3-Trichloropropane	ND	250

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7@9FT	Dil'n Fac:	50.00
Lab ID:	221856-009	Batch#:	166160
Matrix:	Soil	Sampled:	08/09/10
Units:	ug/Kg	Received:	08/13/10
Basis:	as received	Analyzed:	08/20/10

Analyte	Result	RL
Propylbenzene	2,400	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	460	250
para-Isopropyl Toluene	ND	250
1,3-Dichlorobenzene	ND	250
1,4-Dichlorobenzene	ND	250
n-Butylbenzene	2,200	250
1,2-Dichlorobenzene	ND	250
1,2-Dibromo-3-Chloropropane	ND	250
1,2,4-Trichlorobenzene	ND	250
Hexachlorobutadiene	ND	250
Naphthalene	3,700	250
1,2,3-Trichlorobenzene	ND	250

Surrogate	%REC	Limits
Dibromofluoromethane	88	78-122
1,2-Dichloroethane-d4	134	68-152
Toluene-d8	93	80-120
Bromofluorobenzene	97	76-132
Trifluorotoluene (MeOH)	102	60-150

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556885	Batch#:	166109
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556885	Batch#:	166109
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-122
1,2-Dichloroethane-d4	96	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	96	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	166109
Units:	ug/Kg	Analyzed:	08/19/10
Diln Fac:	1.000		

Type: BS Lab ID: QC556886

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	133.0	106	55-139
Isopropyl Ether (DIPE)	25.00	22.43	90	60-131
Ethyl tert-Butyl Ether (ETBE)	25.00	24.59	98	66-126
Methyl tert-Amyl Ether (TAME)	25.00	26.69	107	74-120
1,1-Dichloroethene	25.00	21.33	85	72-134
Benzene	25.00	26.71	107	80-125
Trichloroethene	25.00	26.63	107	79-128
Toluene	25.00	28.50	114	80-128
Chlorobenzene	25.00	27.95	112	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-122
1,2-Dichloroethane-d4	94	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	96	76-132

Type: BSD Lab ID: QC556887

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	120.7	97	55-139	10	32
Isopropyl Ether (DIPE)	25.00	22.98	92	60-131	2	20
Ethyl tert-Butyl Ether (ETBE)	25.00	25.21	101	66-126	2	20
Methyl tert-Amyl Ether (TAME)	25.00	26.83	107	74-120	1	20
1,1-Dichloroethene	25.00	25.11	100	72-134	16	20
Benzene	25.00	26.74	107	80-125	0	20
Trichloroethene	25.00	26.63	107	79-128	0	20
Toluene	25.00	28.45	114	80-128	0	20
Chlorobenzene	25.00	27.91	112	80-120	0	20

Surrogate	%REC	Limits
Dibromofluoromethane	94	78-122
1,2-Dichloroethane-d4	94	68-152
Toluene-d8	98	80-120
Bromofluorobenzene	97	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556888	Batch#:	166110
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556888	Batch#:	166110
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-122
1,2-Dichloroethane-d4	94	68-152
Toluene-d8	109	80-120
Bromofluorobenzene	127	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	166110
Units:	ug/Kg	Analyzed:	08/19/10
Diln Fac:	1.000		

Type: BS Lab ID: QC556889

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	129.8	104	55-139
Isopropyl Ether (DIPE)	25.00	27.33	109	60-131
Ethyl tert-Butyl Ether (ETBE)	25.00	25.08	100	66-126
Methyl tert-Amyl Ether (TAME)	25.00	22.76	91	74-120
1,1-Dichloroethene	25.00	22.71	91	72-134
Benzene	25.00	23.97	96	80-125
Trichloroethene	25.00	20.72	83	79-128
Toluene	25.00	25.03	100	80-128
Chlorobenzene	25.00	24.58	98	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-122
1,2-Dichloroethane-d4	103	68-152
Toluene-d8	108	80-120
Bromofluorobenzene	115	76-132

Type: BSD Lab ID: QC556890

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	122.0	98	55-139	6	32
Isopropyl Ether (DIPE)	25.00	28.30	113	60-131	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	24.79	99	66-126	1	20
Methyl tert-Amyl Ether (TAME)	25.00	21.86	87	74-120	4	20
1,1-Dichloroethene	25.00	23.32	93	72-134	3	20
Benzene	25.00	23.72	95	80-125	1	20
Trichloroethene	25.00	19.96	80	79-128	4	20
Toluene	25.00	24.02	96	80-128	4	20
Chlorobenzene	25.00	23.85	95	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	100	78-122
1,2-Dichloroethane-d4	101	68-152
Toluene-d8	103	80-120
Bromofluorobenzene	112	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556891	Batch#:	166111
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC556891	Batch#:	166111
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

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

Surrogate	%REC	Limits
Dibromofluoromethane	92	78-122
1,2-Dichloroethane-d4	135	68-152
Toluene-d8	97	80-120
Bromofluorobenzene	123	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	LCS	Diln Fac:	1.000
Lab ID:	QC556892	Batch#:	166111
Matrix:	Soil	Analyzed:	08/19/10
Units:	ug/Kg		

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	117.7	94	55-139
Isopropyl Ether (DIPE)	25.00	19.42	78	60-131
Ethyl tert-Butyl Ether (ETBE)	25.00	18.99	76	66-126
Methyl tert-Amyl Ether (TAME)	25.00	21.18	85	74-120
1,1-Dichloroethene	25.00	20.71	83	72-134
Benzene	25.00	23.33	93	80-125
Trichloroethene	25.00	24.60	98	79-128
Toluene	25.00	24.87	99	80-128
Chlorobenzene	25.00	23.84	95	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	86	78-122
1,2-Dichloroethane-d4	130	68-152
Toluene-d8	99	80-120
Bromofluorobenzene	107	76-132

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@12.5FT	Batch#:	166111
MSS Lab ID:	221856-006	Sampled:	08/09/10
Matrix:	Soil	Received:	08/13/10
Units:	ug/Kg	Analyzed:	08/20/10
Basis:	as received		

Type: MS
Lab ID: QC556893

Diln Fac: 0.9862

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<6.914	246.5	257.5	104	44-140
Isopropyl Ether (DIPE)	<0.7307	49.31	38.57	78	56-125
Ethyl tert-Butyl Ether (ETBE)	<0.6137	49.31	38.02	77	60-123
Methyl tert-Amyl Ether (TAME)	<0.6382	49.31	42.95	87	65-120
1,1-Dichloroethene	<0.7530	49.31	44.37	90	69-141
Benzene	<0.5661	49.31	43.12	87	71-125
Trichloroethene	<0.6858	49.31	48.79	99	65-144
Toluene	0.6845	49.31	44.04	88	64-128
Chlorobenzene	<0.5812	49.31	44.23	90	57-126

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-122
1,2-Dichloroethane-d4	132	68-152
Toluene-d8	98	80-120
Bromofluorobenzene	104	76-132

Type: MSD
Lab ID: QC556921

Diln Fac: 0.9615

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	240.4	226.8	94	44-140	10	47
Isopropyl Ether (DIPE)	48.08	35.91	75	56-125	5	24
Ethyl tert-Butyl Ether (ETBE)	48.08	35.24	73	60-123	5	25
Methyl tert-Amyl Ether (TAME)	48.08	39.15	81	65-120	7	24
1,1-Dichloroethene	40.06	42.48	106	69-141	16	35
Benzene	40.06	40.43	101	71-125	14	33
Trichloroethene	40.06	44.65	111	65-144	12	31
Toluene	40.06	41.55	102	64-128	15	34
Chlorobenzene	40.06	41.20	103	57-126	14	36

Surrogate	%REC	Limits
Dibromofluoromethane	93	78-122
1,2-Dichloroethane-d4	131	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	105	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8@7.5FT	Batch#:	166109
MSS Lab ID:	221856-005	Sampled:	08/09/10
Matrix:	Soil	Received:	08/13/10
Units:	ug/Kg	Analyzed:	08/19/10
Basis:	as received		

Type: MS
Lab ID: QC556952

Diln Fac: 0.9597

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<16.86	239.9	292.7	122	44-140
Isopropyl Ether (DIPE)	<1.367	47.98	51.12	107	56-125
Ethyl tert-Butyl Ether (ETBE)	<0.5432	47.98	56.20	117	60-123
Methyl tert-Amyl Ether (TAME)	<0.5449	47.98	56.28	117	65-120
1,1-Dichloroethene	<1.198	47.98	50.20	105	69-141
Benzene	<0.6500	47.98	53.78	112	71-125
Trichloroethene	<0.7017	47.98	54.42	113	65-144
Toluene	1.108	47.98	57.15	117	64-128
Chlorobenzene	<0.3306	47.98	55.51	116	57-126

Surrogate	%REC	Limits
Dibromofluoromethane	98	78-122
1,2-Dichloroethane-d4	97	68-152
Toluene-d8	97	80-120
Bromofluorobenzene	99	76-132

Type: MSD
Lab ID: QC556953

Diln Fac: 0.9785

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	244.6	303.9	124	44-140	2	47
Isopropyl Ether (DIPE)	48.92	47.89	98	56-125	8	24
Ethyl tert-Butyl Ether (ETBE)	48.92	52.85	108	60-123	8	25
Methyl tert-Amyl Ether (TAME)	48.92	56.46	115	65-120	2	24
1,1-Dichloroethene	48.92	55.35	113	69-141	8	35
Benzene	48.92	55.08	113	71-125	0	33
Trichloroethene	48.92	53.41	109	65-144	4	31
Toluene	48.92	55.15	110	64-128	5	34
Chlorobenzene	48.92	56.84	116	57-126	0	36

Surrogate	%REC	Limits
Dibromofluoromethane	96	78-122
1,2-Dichloroethane-d4	100	68-152
Toluene-d8	98	80-120
Bromofluorobenzene	96	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC557086	Batch#:	166160
Matrix:	Soil	Analyzed:	08/20/10
Units:	ug/Kg		

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC557086	Batch#:	166160
Matrix:	Soil	Analyzed:	08/20/10
Units:	ug/Kg		

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

Surrogate	%REC	Limits
Dibromofluoromethane	89	78-122
1,2-Dichloroethane-d4	135	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	111	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	166160
Units:	ug/Kg	Analyzed:	08/20/10
Diln Fac:	1.000		

Type: BS Lab ID: QC557087

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	110.1	88	55-139
Isopropyl Ether (DIPE)	25.00	17.35	69	60-131
Ethyl tert-Butyl Ether (ETBE)	25.00	17.91	72	66-126
Methyl tert-Amyl Ether (TAME)	25.00	19.93	80	74-120
1,1-Dichloroethene	25.00	21.81	87	72-134
Benzene	25.00	22.63	91	80-125
Trichloroethene	25.00	25.02	100	79-128
Toluene	25.00	23.92	96	80-128
Chlorobenzene	25.00	23.91	96	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	86	78-122
1,2-Dichloroethane-d4	126	68-152
Toluene-d8	97	80-120
Bromofluorobenzene	102	76-132

Type: BSD Lab ID: QC557088

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	121.9	98	55-139	10	32
Isopropyl Ether (DIPE)	25.00	18.45	74	60-131	6	20
Ethyl tert-Butyl Ether (ETBE)	25.00	19.13	77	66-126	7	20
Methyl tert-Amyl Ether (TAME)	25.00	22.35	89	74-120	11	20
1,1-Dichloroethene	25.00	22.19	89	72-134	2	20
Benzene	25.00	23.97	96	80-125	6	20
Trichloroethene	25.00	25.47	102	79-128	2	20
Toluene	25.00	24.81	99	80-128	4	20
Chlorobenzene	25.00	25.49	102	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	87	78-122
1,2-Dichloroethane-d4	133	68-152
Toluene-d8	96	80-120
Bromofluorobenzene	104	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC557288	Batch#:	166201
Matrix:	Soil	Analyzed:	08/23/10
Units:	ug/Kg		

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

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC557288	Batch#:	166201
Matrix:	Soil	Analyzed:	08/23/10
Units:	ug/Kg		

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

Surrogate	%REC	Limits
Dibromofluoromethane	91	78-122
1,2-Dichloroethane-d4	92	68-152
Toluene-d8	89	80-120
Bromofluorobenzene	88	76-132

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Soil	Batch#:	166201
Units:	ug/Kg	Analyzed:	08/23/10
Diln Fac:	1.000		

Type: BS Lab ID: QC557289

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	108.5	87	55-139
Isopropyl Ether (DIPE)	25.00	18.47	74	60-131
Ethyl tert-Butyl Ether (ETBE)	25.00	20.50	82	66-126
Methyl tert-Amyl Ether (TAME)	25.00	24.55	98	74-120
1,1-Dichloroethene	25.00	24.18	97	72-134
Benzene	25.00	26.41	106	80-125
Trichloroethene	25.00	26.56	106	79-128
Toluene	25.00	26.60	106	80-128
Chlorobenzene	25.00	27.23	109	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	90	78-122
1,2-Dichloroethane-d4	93	68-152
Toluene-d8	95	80-120
Bromofluorobenzene	90	76-132

Type: BSD Lab ID: QC557290

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	111.7	89	55-139	3	32
Isopropyl Ether (DIPE)	25.00	18.54	74	60-131	0	20
Ethyl tert-Butyl Ether (ETBE)	25.00	21.45	86	66-126	5	20
Methyl tert-Amyl Ether (TAME)	25.00	25.55	102	74-120	4	20
1,1-Dichloroethene	25.00	26.05	104	72-134	7	20
Benzene	25.00	27.43	110	80-125	4	20
Trichloroethene	25.00	27.36	109	79-128	3	20
Toluene	25.00	28.26	113	80-128	6	20
Chlorobenzene	25.00	29.04	116	80-120	6	20

Surrogate	%REC	Limits
Dibromofluoromethane	90	78-122
1,2-Dichloroethane-d4	91	68-152
Toluene-d8	95	80-120
Bromofluorobenzene	87	76-132

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Volatile Organics

Lab #:	221856	Location:	3519 Castro Valley Blvd Castro Valley
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	ZZZZZZZZZZ	Batch#:	166201
MSS Lab ID:	221996-001	Sampled:	08/20/10
Matrix:	Soil	Received:	08/20/10
Units:	ug/Kg	Analyzed:	08/23/10
Basis:	as received		

Type: MS
Lab ID: QC557331

Diln Fac: 0.9615

Analyte	MSS Result	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	<17.83	240.4	236.1	98	44-140
Isopropyl Ether (DIPE)	<1.446	48.08	34.83	72	56-125
Ethyl tert-Butyl Ether (ETBE)	<0.5744	48.08	41.44	86	60-123
Methyl tert-Amyl Ether (TAME)	<0.5762	48.08	49.70	103	65-120
1,1-Dichloroethene	<1.267	48.08	71.83	149 *	69-141
Benzene	<0.6873	48.08	49.43	103	71-125
Trichloroethene	<0.7420	48.08	95.03	198 *	65-144
Toluene	<0.4626	48.08	49.13	102	64-128
Chlorobenzene	<0.3495	48.08	49.36	103	57-126

Surrogate	%REC	Limits
Dibromofluoromethane	9 *	78-122
1,2-Dichloroethane-d4	92	68-152
Toluene-d8	92	80-120
Bromofluorobenzene	87	76-132

Type: MSD
Lab ID: QC557332

Diln Fac: 0.9671

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	241.8	212.4	88	44-140	11	47
Isopropyl Ether (DIPE)	48.36	34.23	71	56-125	2	24
Ethyl tert-Butyl Ether (ETBE)	48.36	41.62	86	60-123	0	25
Methyl tert-Amyl Ether (TAME)	48.36	47.59	98	65-120	5	24
1,1-Dichloroethene	48.36	76.19	158 *	69-141	5	35
Benzene	48.36	48.76	101	71-125	2	33
Trichloroethene	48.36	91.98	190 *	65-144	4	31
Toluene	48.36	48.82	101	64-128	1	34
Chlorobenzene	48.36	50.17	104	57-126	1	36

Surrogate	%REC	Limits
Dibromofluoromethane	11 *	78-122
1,2-Dichloroethane-d4	89	68-152
Toluene-d8	94	80-120
Bromofluorobenzene	87	76-132

*= Value outside of QC limits; see narrative
RPD= Relative Percent Difference

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

Laboratory Job Number 222149
ANALYTICAL REPORT

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

Project : 2762
Location : 3519 Castro Valley Blvd
Level : II

Sample ID	Lab ID
ESE-1R	222149-001
ESE-2R	222149-002
ESE-5R	222149-003
MW-6R	222149-004
MW-7R	222149-005
SOMA-7	222149-006
SOMA-8	222149-007

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: _____ Date: 09/08/2010
Project Manager

NELAP # 01107CA

Curtis & Tompkins, Ltd.

CASE NARRATIVE

Laboratory number:	**222149**
Client:	**SOMA Environmental Engineering Inc.**
Project:	**2762**
Location:	**3519 Castro Valley Blvd**
Request Date:	**09/01/10**
Samples Received:	**09/01/10**

This data package contains sample and QC results for seven water samples, requested for the above referenced project on 09/01/10. The samples were received cold and intact.

TPH-Extractables by GC (EPA 8015B):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

CHAIN OF CUSTODY

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

LOGIN # 22244

Project No: 2762

Project Name: 3519 Castro Valley Blvd, Castro Valley

Turnaround Time: Standard

Sampler: Lizzie Hightower

Report To: Joyce Bobek

Company : SOMA Environmental

Telephone: 925-734-6400

Fax: 925-734-6401

Lab No.	Sample ID.	Sampling Date	Time	Matrix: Soil	Matrix: Water	Matrix: Waste	# of Containers	Preservative: HCL	Preservative: H_2SO_4	Preservative: HNO_3	Preservative: ICE
1	ESE-1R	8/30/10	12:42		*		3 VOAS, 2 -500 mL Amber	*			*
2	ESE-2R		13:14		*		3 VOAS, 2 -500 mL Amber	*			*
3	ESE-5R		14:34		*		3 VOAS, 2 -500 mL Amber	*			*
4	MW-6R		13:50		*		3 VOAS, 2 -500 mL Amber	*			*
5	MW-7R		12:06		*		3 VOAS, 2 -500 mL Amber	*			*
6	SOMA-7		15:04		*		3 VOAS, 2 -500 mL Amber	*			*
7	SOMA-8	↓	14:13		*		3 VOAS, 2 -500 mL Amber	*			*

Analyses

TPH-d, TPH-mo Method 8015D	TPH-g, BTEX, MtBE Method 8260B	VOCs, Gas Ox, Pb Scavengers Method 8260B (Full List)
*	*	*
*	*	*
*	*	*
*	*	*
*	*	*
*	*	*
*	*	*

Notes: **EDF OUTPUT REQUIRED**
VOCs to include TBA, ETBE, DIPE, TAME, 1,2-DCA, EDB, and Ethanol

RELINQUISHED BY:

E. Hightower 8/30/10 16:06 DATE/TIME

Ruchi Mathur 8/31/10 11:26 DATE/TIME

DATE/TIME

RECEIVED BY:

Ruchi Mathur 8/31/10 8:30 DATE/TIME

9/1/10 1126 DATE/TIME

DATE/TIME

COOLER RECEIPT CHECKLIST Curtis & Tompkins, Ltd.

Login # 122149 Date Received 9/1/10 Number of coolers 1
Client SOMA Project 3519 CASTRO VALLEY BLVD

Date Opened 9/1/10 By (print) S. EVANS (sign)
Date Logged in ↓ By (print) ↓ (sign) ↓

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

☐ Bubble Wrap	☒ Foam blocks	☒ Bags	☐ None
☐ Cloth material	☐ Cardboard	☐ Styrofoam	☐ Paper towels

7. Temperature documentation:

   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. Are bubbles > 6mm absent in VOA samples? (YES) NO N/A
16. Was the client contacted concerning this sample delivery? YES NO
    If YES, Who was called? By Date:

COMMENTS

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	08/30/10
Units:	ug/L	Received:	09/01/10
Diln Fac:	1.000	Analyzed:	09/02/10
Batch#:	166449		

Field ID: ESE-1R
Type: SAMPLE
Lab ID: 222149-001
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	1,600 Y	50
Motor Oil C24-C36	560	300

Surrogate	%REC	Limits
o-Terphenyl	105	60-129

Field ID: ESE-2R
Type: SAMPLE
Lab ID: 222149-002
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	250 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	105	60-129

Field ID: ESE-5R
Type: SAMPLE
Lab ID: 222149-003
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	190 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	100	60-129

Field ID: MW-6R
Type: SAMPLE
Lab ID: 222149-004
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	110 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	105	60-129

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

Curtis & Tompkins, Ltd.

Total Extractable Hydrocarbons

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Water	Sampled:	08/30/10
Units:	ug/L	Received:	09/01/10
Diln Fac:	1.000	Analyzed:	09/02/10
Batch#:	166449		

Field ID: MW-7R
Type: SAMPLE
Lab ID: 222149-005
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	200 Y	50
Motor Oil C24-C36	420	300

Surrogate	%REC	Limits
o-Terphenyl	105	60-129

Field ID: SOMA-7
Type: SAMPLE
Lab ID: 222149-006
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	2,100 Y	50
Motor Oil C24-C36	330	300

Surrogate	%REC	Limits
o-Terphenyl	91	60-129

Field ID: SOMA-8
Type: SAMPLE
Lab ID: 222149-007
Prepared: 09/01/10

Analyte	Result	RL
Diesel C10-C24	69 Y	50
Motor Oil C24-C36	ND	300

Surrogate	%REC	Limits
o-Terphenyl	99	60-129

Type: BLANK
Lab ID: QC558261
Prepared: 08/31/10

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

Surrogate	%REC	Limits
o-Terphenyl	113	60-129

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

Curtis & Tompkins, Ltd.

Batch QC Report

Total Extractable Hydrocarbons

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 3520C
Project#:	2762	Analysis:	EPA 8015B
Matrix:	Water	Batch#:	166449
Units:	ug/L	Prepared:	08/31/10
Diln Fac:	1.000	Analyzed:	09/01/10

Type: BS Cleanup Method: EPA 3630C
Lab ID: QC558262

Analyte	Spiked	Result	%REC	Limits
Diesel C10-C24	2,500	2,253	90	54-125

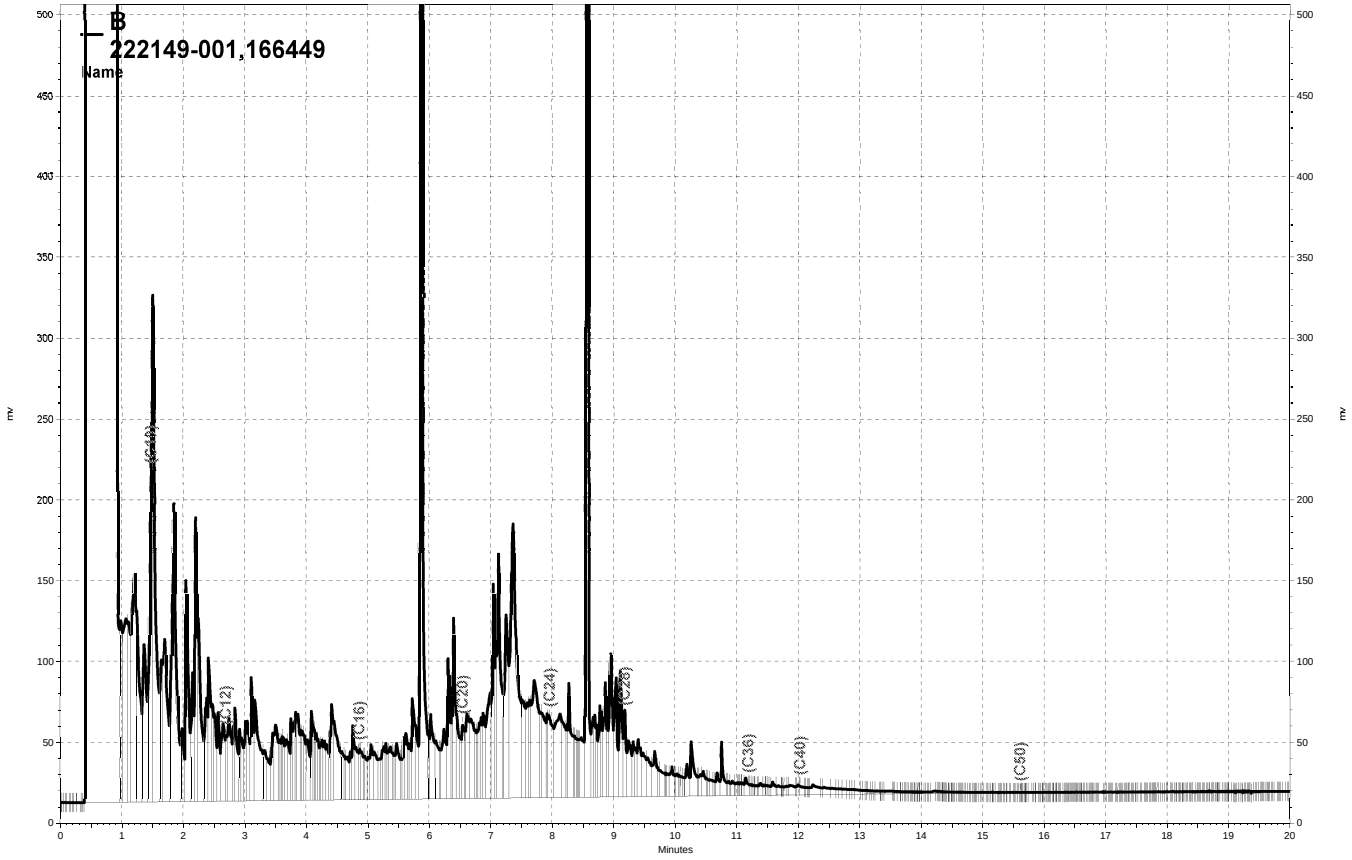
Surrogate	%REC	Limits
o-Terphenyl	97	60-129

Type: BSD Cleanup Method: EPA 3630C
Lab ID: QC558263

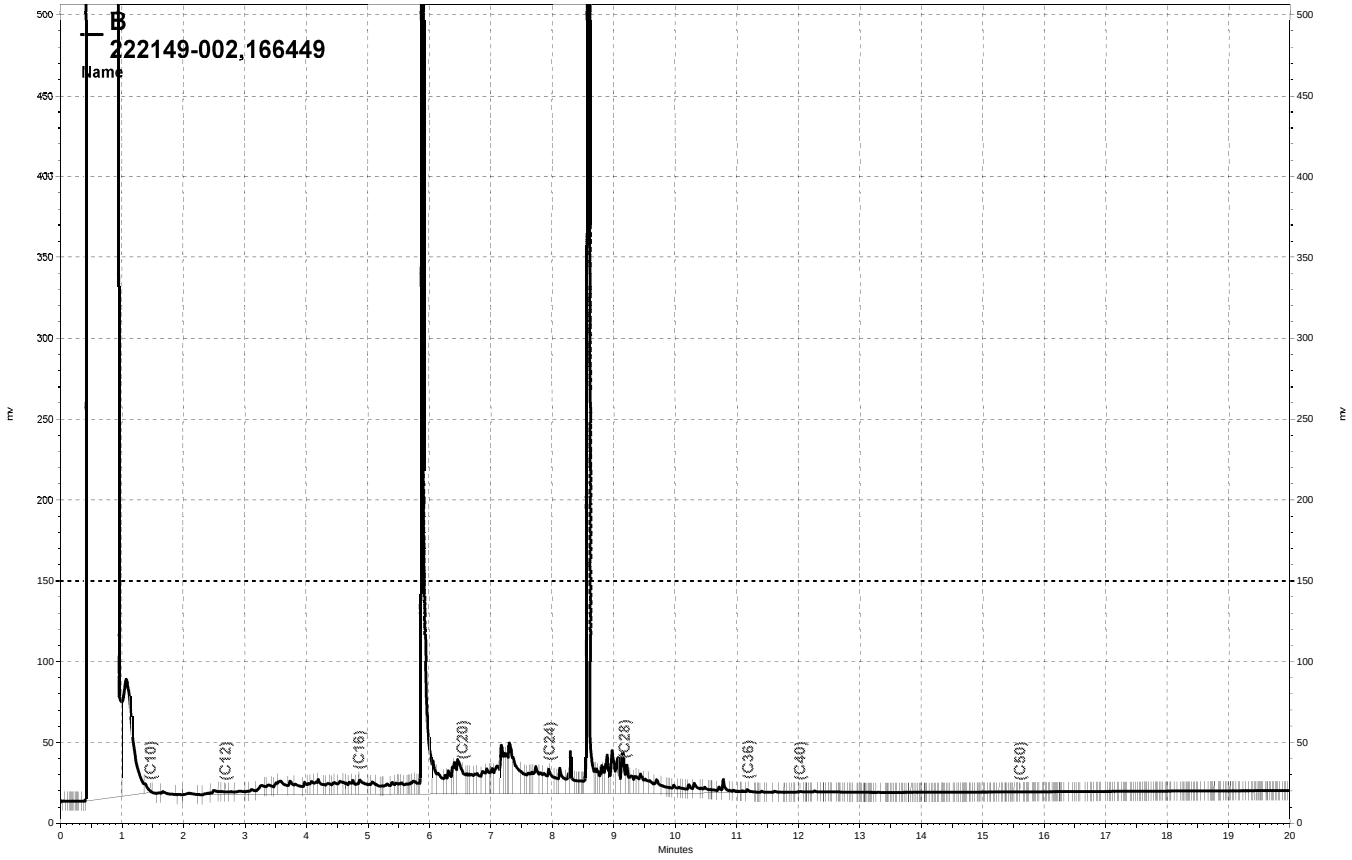
Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	2,500	2,445	98	54-125	8	53

Surrogate	%REC	Limits
o-Terphenyl	104	60-129

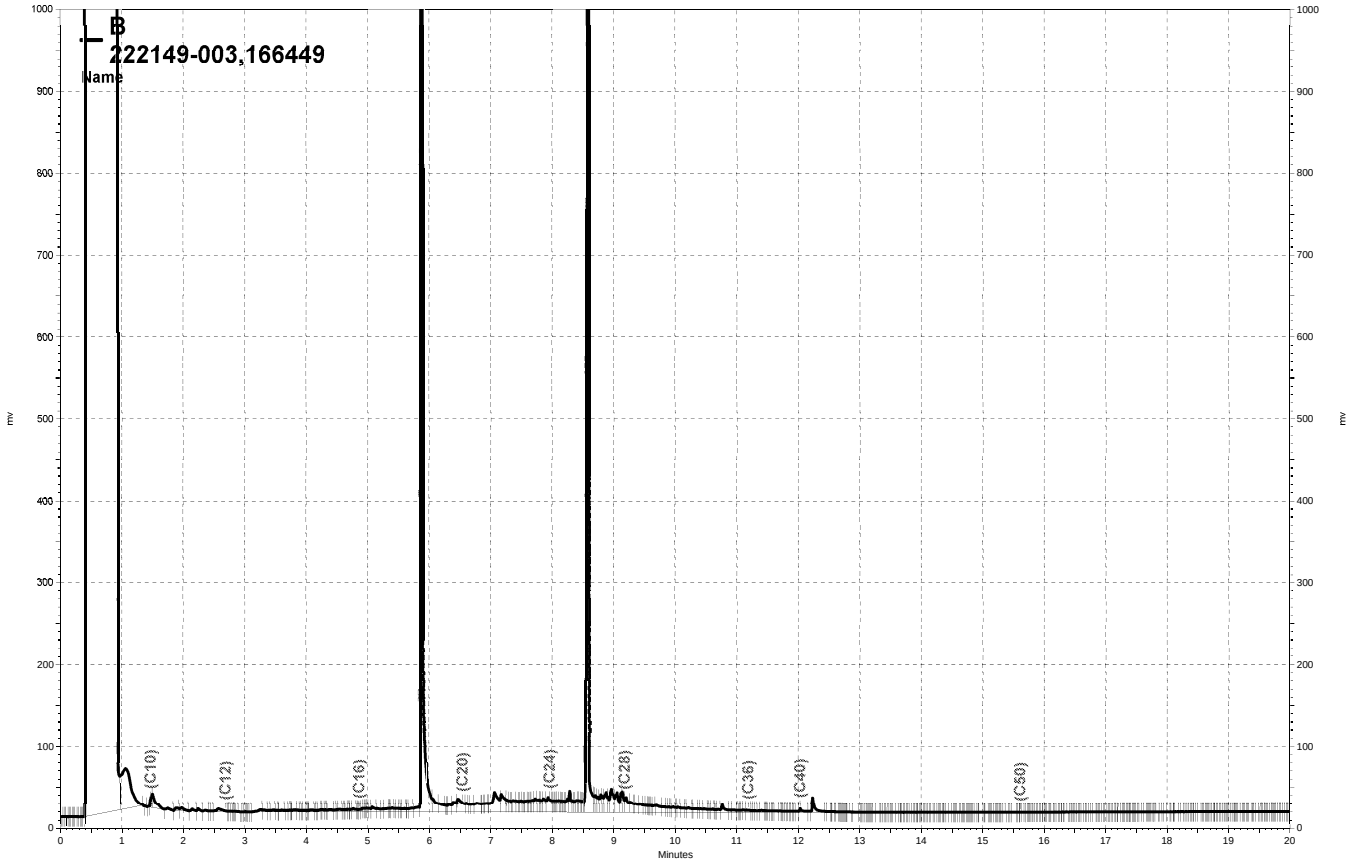
RPD= Relative Percent Difference



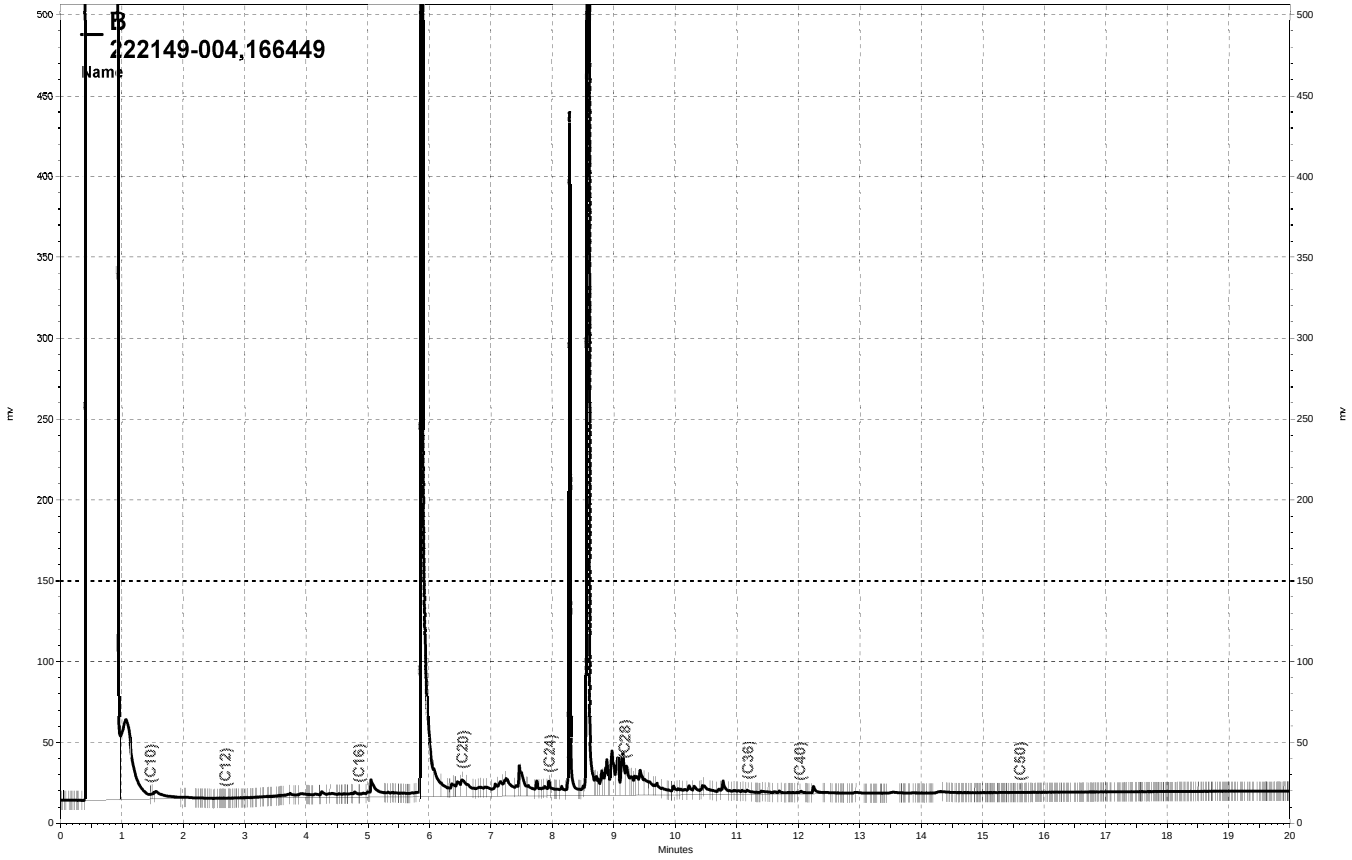
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b006, B



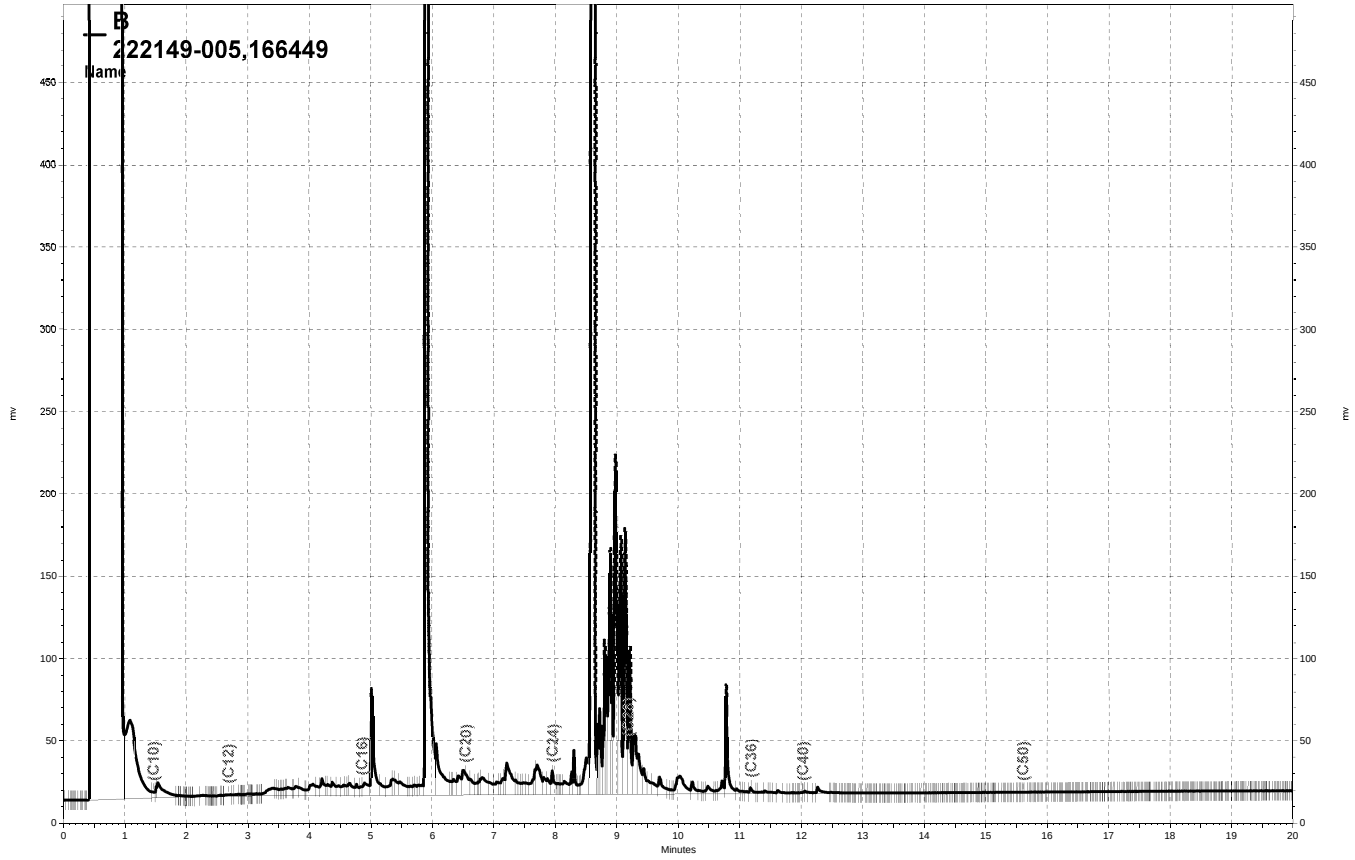
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b007, B



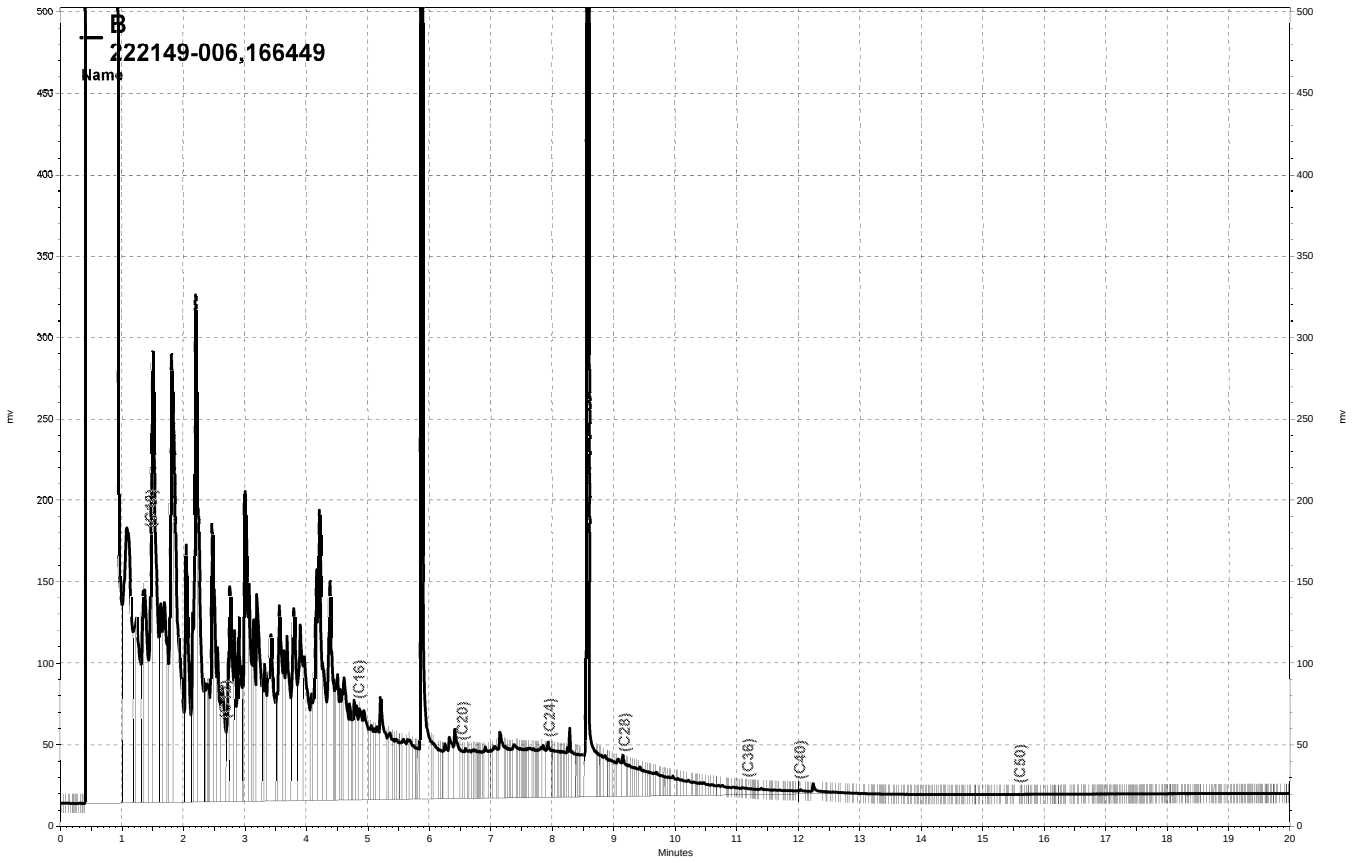
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b008, B



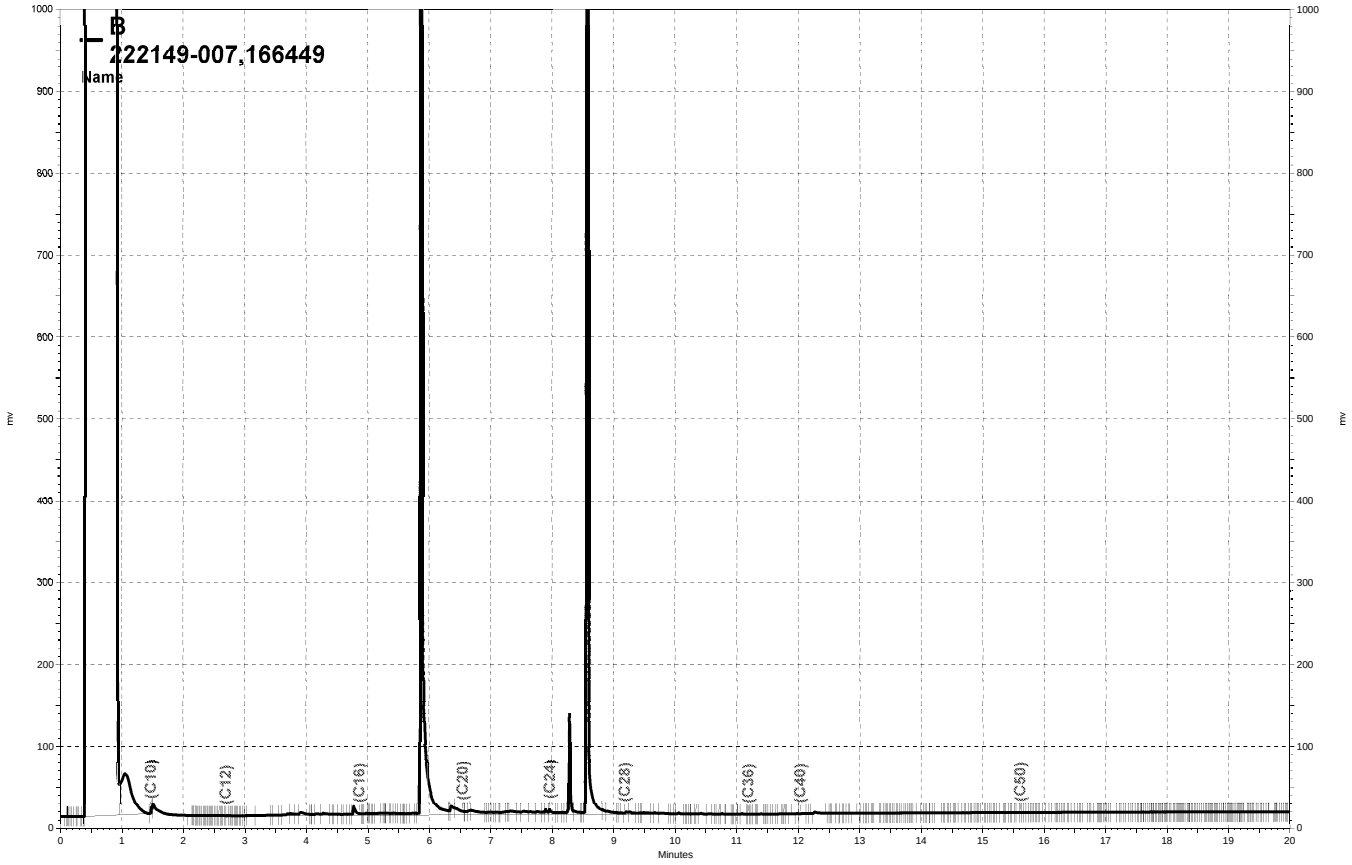
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b009, B



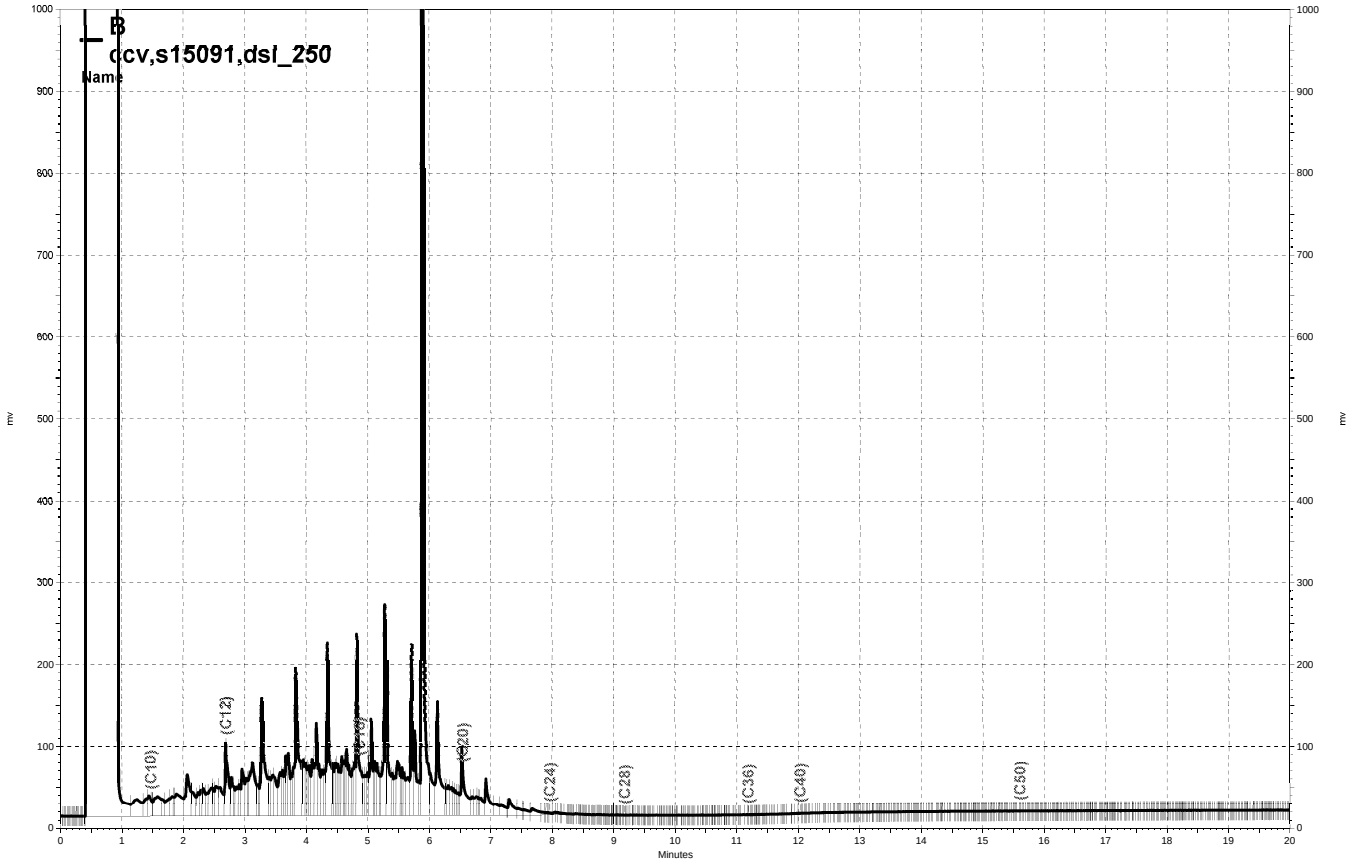
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b010, B



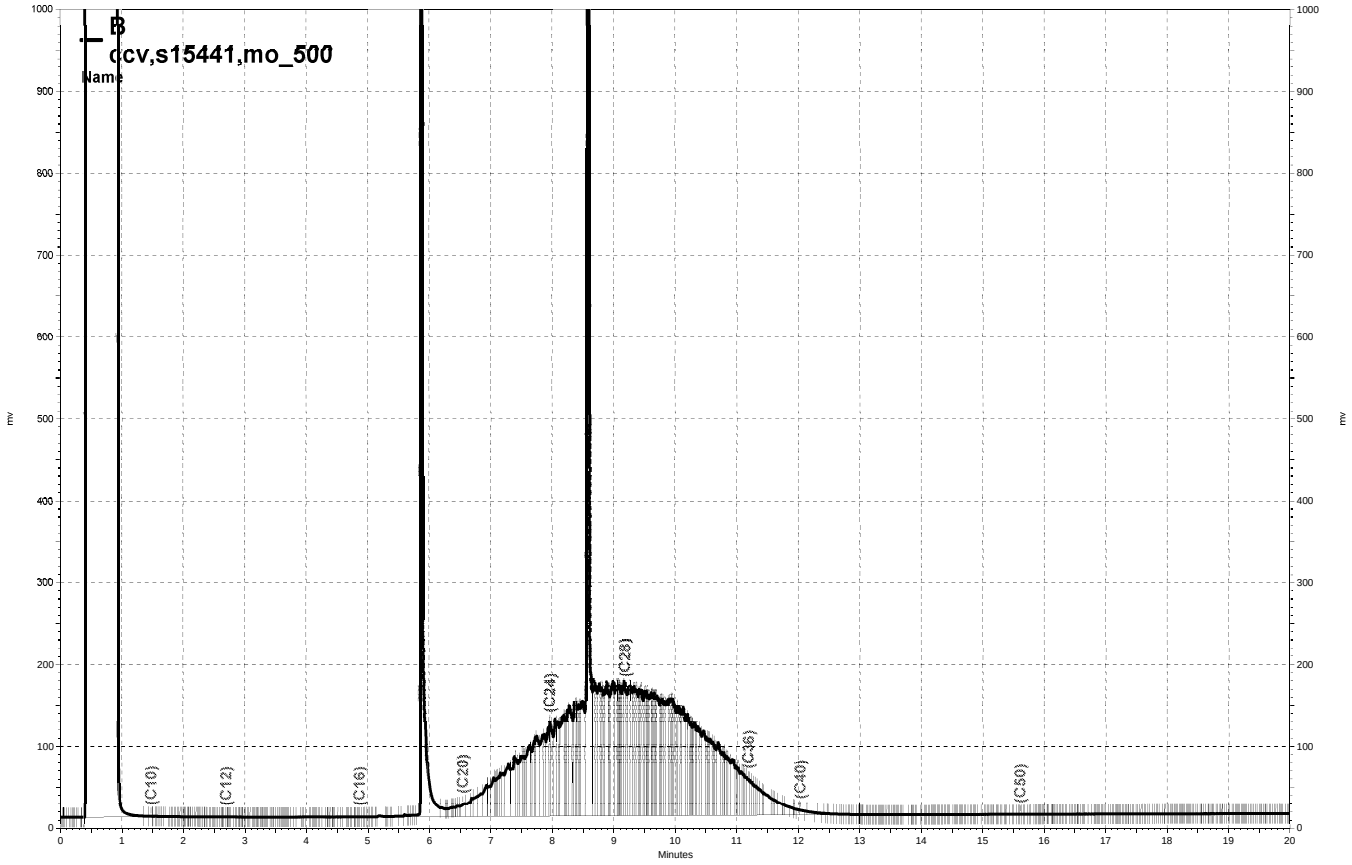
\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b011, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b012, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\245b004, B



\\Lims\gdrive\ezchrom\Projects\GC15B\Data\246b005, B

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	ESE-1R	Batch#:	166532
Lab ID:	222149-001	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/03/10
Diln Fac:	1.429		

Analyte	Result	RL
Gasoline C7-C12	2,100	71
tert-Butyl Alcohol (TBA)	83	14
Isopropyl Ether (DIPE)	ND	0.71
Ethyl tert-Butyl Ether (ETBE)	ND	0.71
Methyl tert-Amyl Ether (TAME)	3.1	0.71
Ethanol	ND	1,400
MTBE	15	0.71
1,2-Dichloroethane	ND	0.71
Benzene	110	0.71
Toluene	5.2	0.71
1,2-Dibromoethane	ND	0.71
Ethylbenzene	19	0.71
m,p-Xylenes	110	0.71
o-Xylene	41	0.71

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	95	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	ESE-2R	Batch#:	166491
Lab ID:	222149-002	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	200	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	16	0.50
1,2-Dichloroethane	ND	0.50
Benzene	0.93	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	1.3	0.50
m,p-Xylenes	4.6	0.50
o-Xylene	8.9	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	102	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	ESE-5R	Batch#:	166491
Lab ID:	222149-003	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	75	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	7.3	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	102	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	MW-6R	Batch#:	166491
Lab ID:	222149-004	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

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

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	103	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	MW-7R	Batch#:	166491
Lab ID:	222149-005	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

Analyte	Result	RL
Gasoline C7-C12	ND	50
tert-Butyl Alcohol (TBA)	ND	10
Isopropyl Ether (DIPE)	ND	0.50
Ethyl tert-Butyl Ether (ETBE)	ND	0.50
Methyl tert-Amyl Ether (TAME)	ND	0.50
Ethanol	ND	1,000
MTBE	24	0.50
1,2-Dichloroethane	ND	0.50
Benzene	ND	0.50
Toluene	ND	0.50
1,2-Dibromoethane	ND	0.50
Ethylbenzene	ND	0.50
m,p-Xylenes	ND	0.50
o-Xylene	ND	0.50

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	103	71-140
Toluene-d8	96	80-120
Bromofluorobenzene	96	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-7	Batch#:	166532
Lab ID:	222149-006	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/03/10
Diln Fac:	3.333		

Analyte	Result	RL
Gasoline C7-C12	2,900	170
tert-Butyl Alcohol (TBA)	ND	33
Isopropyl Ether (DIPE)	ND	1.7
Ethyl tert-Butyl Ether (ETBE)	ND	1.7
Methyl tert-Amyl Ether (TAME)	ND	1.7
Ethanol	ND	3,300
MTBE	8.4	1.7
1,2-Dichloroethane	ND	1.7
Benzene	190	1.7
Toluene	3.7	1.7
1,2-Dibromoethane	ND	1.7
Ethylbenzene	74	1.7
m,p-Xylenes	18	1.7
o-Xylene	1.8	1.7

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	99	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Field ID:	SOMA-8	Batch#:	166491
Lab ID:	222149-007	Sampled:	08/30/10
Matrix:	Water	Received:	09/01/10
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

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

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	102	71-140
Toluene-d8	98	80-120
Bromofluorobenzene	95	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	166491
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

Type: BS Lab ID: QC558439

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	125.0	136.0	109	45-152
Isopropyl Ether (DIPE)	25.00	22.29	89	56-134
Ethyl tert-Butyl Ether (ETBE)	25.00	22.99	92	60-124
Methyl tert-Amyl Ether (TAME)	25.00	22.99	92	66-120
MTBE	25.00	22.45	90	66-120
1,2-Dichloroethane	25.00	22.73	91	70-135
Benzene	25.00	21.66	87	80-122
Toluene	25.00	24.11	96	80-120
1,2-Dibromoethane	25.00	25.20	101	80-120
Ethylbenzene	25.00	24.81	99	80-123
m,p-Xylenes	50.00	49.60	99	80-126
o-Xylene	25.00	25.10	100	80-122

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	99	71-140
Toluene-d8	98	80-120
Bromofluorobenzene	96	80-121

Type: BSD Lab ID: QC558440

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	125.0	134.0	107	45-152	1	30
Isopropyl Ether (DIPE)	25.00	21.62	86	56-134	3	20
Ethyl tert-Butyl Ether (ETBE)	25.00	22.11	88	60-124	4	20
Methyl tert-Amyl Ether (TAME)	25.00	22.77	91	66-120	1	20
MTBE	25.00	21.84	87	66-120	3	20
1,2-Dichloroethane	25.00	22.11	88	70-135	3	20
Benzene	25.00	21.69	87	80-122	0	20
Toluene	25.00	23.56	94	80-120	2	20
1,2-Dibromoethane	25.00	24.29	97	80-120	4	20
Ethylbenzene	25.00	24.23	97	80-123	2	20
m,p-Xylenes	50.00	47.82	96	80-126	4	20
o-Xylene	25.00	24.65	99	80-122	2	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	100	71-140
Toluene-d8	99	80-120
Bromofluorobenzene	96	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	166491
Units:	ug/L	Analyzed:	09/02/10
Diln Fac:	1.000		

Type: BS Lab ID: QC558441

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,087	109	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	101	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	97	80-121

Type: BSD Lab ID: QC558442

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,060	106	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	102	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC558443	Batch#:	166491
Matrix:	Water	Analyzed:	09/02/10
Units:	ug/L		

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

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	101	71-140
Toluene-d8	98	80-120
Bromofluorobenzene	98	80-121

ND= Not Detected
RL= Reporting Limit

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	166532
Units:	ug/L	Analyzed:	09/03/10
Diln Fac:	1.000		

Type: BS Lab ID: QC558615

Analyte	Spiked	Result	%REC	Limits
tert-Butyl Alcohol (TBA)	156.3	165.3	106	45-152
Isopropyl Ether (DIPE)	31.25	28.42	91	56-134
Ethyl tert-Butyl Ether (ETBE)	31.25	29.33	94	60-124
Methyl tert-Amyl Ether (TAME)	31.25	30.31	97	66-120
MTBE	31.25	28.39	91	66-120
1,2-Dichloroethane	31.25	30.30	97	70-135
Benzene	31.25	29.56	95	80-122
Toluene	31.25	31.08	99	80-120
1,2-Dibromoethane	31.25	32.13	103	80-120
Ethylbenzene	31.25	32.00	102	80-123
m,p-Xylenes	62.50	64.81	104	80-126
o-Xylene	31.25	32.40	104	80-122

Surrogate	%REC	Limits
Dibromofluoromethane	96	80-122
1,2-Dichloroethane-d4	99	71-140
Toluene-d8	98	80-120
Bromofluorobenzene	94	80-121

Type: BSD Lab ID: QC558616

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
tert-Butyl Alcohol (TBA)	156.3	150.3	96	45-152	10	30
Isopropyl Ether (DIPE)	31.25	26.12	84	56-134	8	20
Ethyl tert-Butyl Ether (ETBE)	31.25	27.28	87	60-124	7	20
Methyl tert-Amyl Ether (TAME)	31.25	28.64	92	66-120	6	20
MTBE	31.25	26.89	86	66-120	5	20
1,2-Dichloroethane	31.25	28.84	92	70-135	5	20
Benzene	31.25	28.26	90	80-122	4	20
Toluene	31.25	29.80	95	80-120	4	20
1,2-Dibromoethane	31.25	30.75	98	80-120	4	20
Ethylbenzene	31.25	30.46	97	80-123	5	20
m,p-Xylenes	62.50	61.58	99	80-126	5	20
o-Xylene	31.25	30.91	99	80-122	5	20

Surrogate	%REC	Limits
Dibromofluoromethane	93	80-122
1,2-Dichloroethane-d4	97	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	96	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Matrix:	Water	Batch#:	166532
Units:	ug/L	Analyzed:	09/03/10
Diln Fac:	1.000		

Type: BS Lab ID: QC558617

Analyte	Spiked	Result	%REC	Limits
Gasoline C7-C12	1,000	1,056	106	80-120

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	100	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-121

Type: BSD Lab ID: QC558618

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Gasoline C7-C12	1,000	1,027	103	80-120	3	20

Surrogate	%REC	Limits
Dibromofluoromethane	95	80-122
1,2-Dichloroethane-d4	101	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	95	80-121

RPD= Relative Percent Difference

Curtis & Tompkins, Ltd.

Batch QC Report

Gasoline by GC/MS

Lab #:	222149	Location:	3519 Castro Valley Blvd
Client:	SOMA Environmental Engineering Inc.	Prep:	EPA 5030B
Project#:	2762	Analysis:	EPA 8260B
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC558619	Batch#:	166532
Matrix:	Water	Analyzed:	09/03/10
Units:	ug/L		

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

Surrogate	%REC	Limits
Dibromofluoromethane	94	80-122
1,2-Dichloroethane-d4	100	71-140
Toluene-d8	97	80-120
Bromofluorobenzene	94	80-121

ND= Not Detected
RL= Reporting Limit

Data File: \\Gcmsserver\DD\chem\MSVOA10.i\090310.b\JI317TVH.D

Date : 03-SEP-2010 17:47

Client ID: DYNA P&T

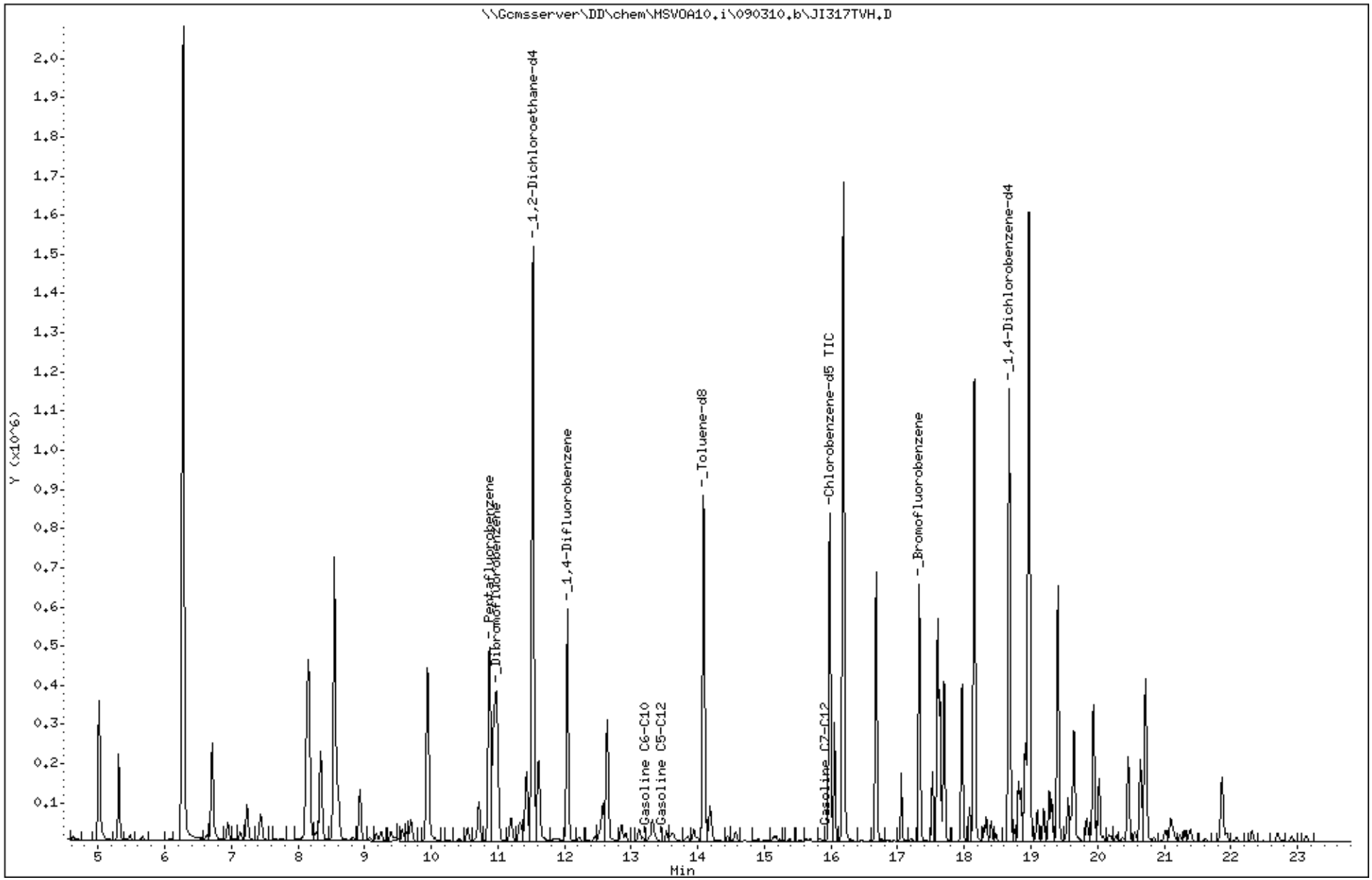
Instrument: MSVOA10.i

Sample Info: S,222149-001,

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\090210.b\JI212TVH.D

Date : 02-SEP-2010 15:17

Client ID: DYNA P&T

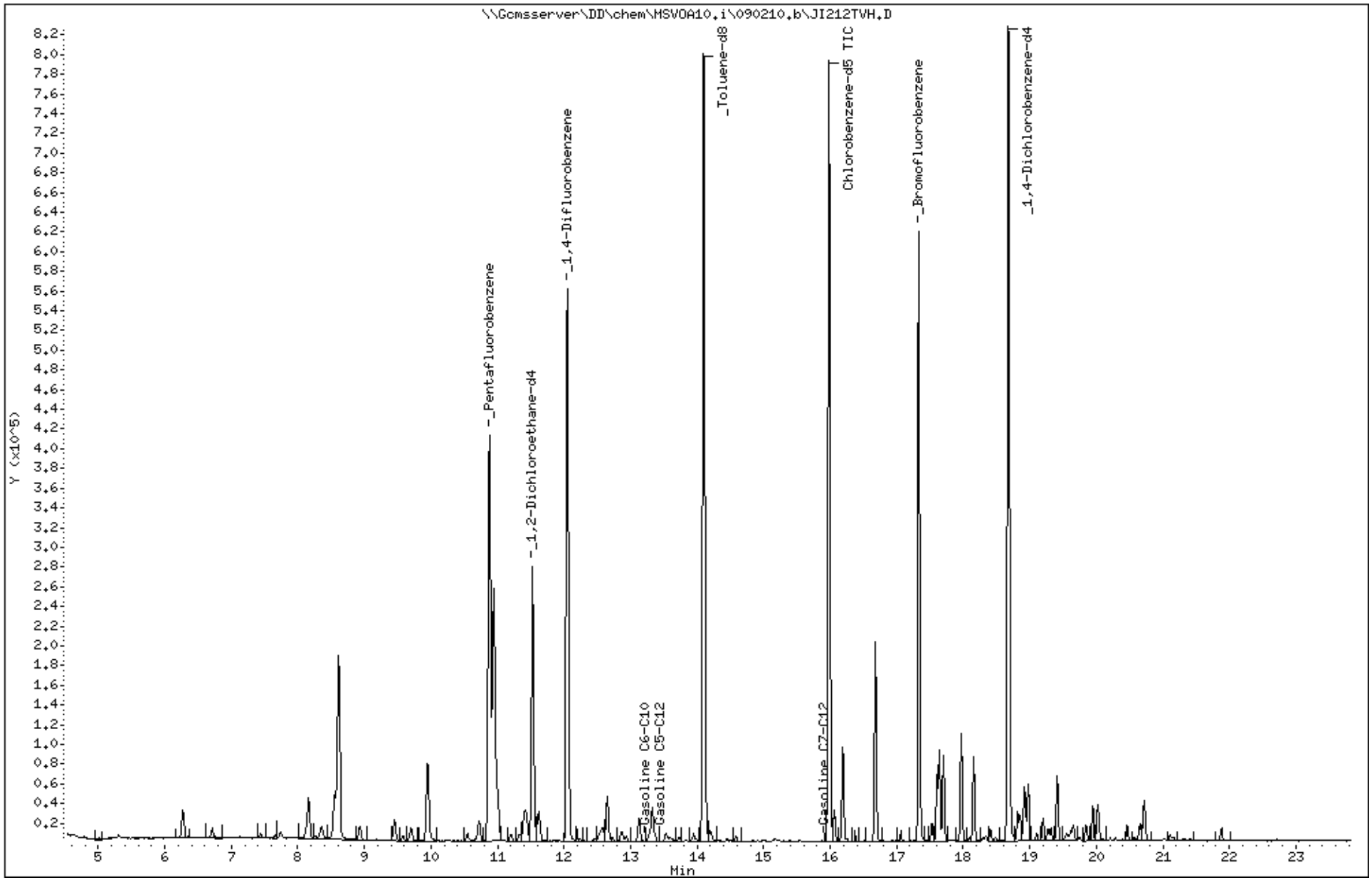
Instrument: MSVOA10.i

Sample Info: S,222149-002,

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\090210.b\JI213TVH.D

Date : 02-SEP-2010 15:56

Client ID: DYNA P&T

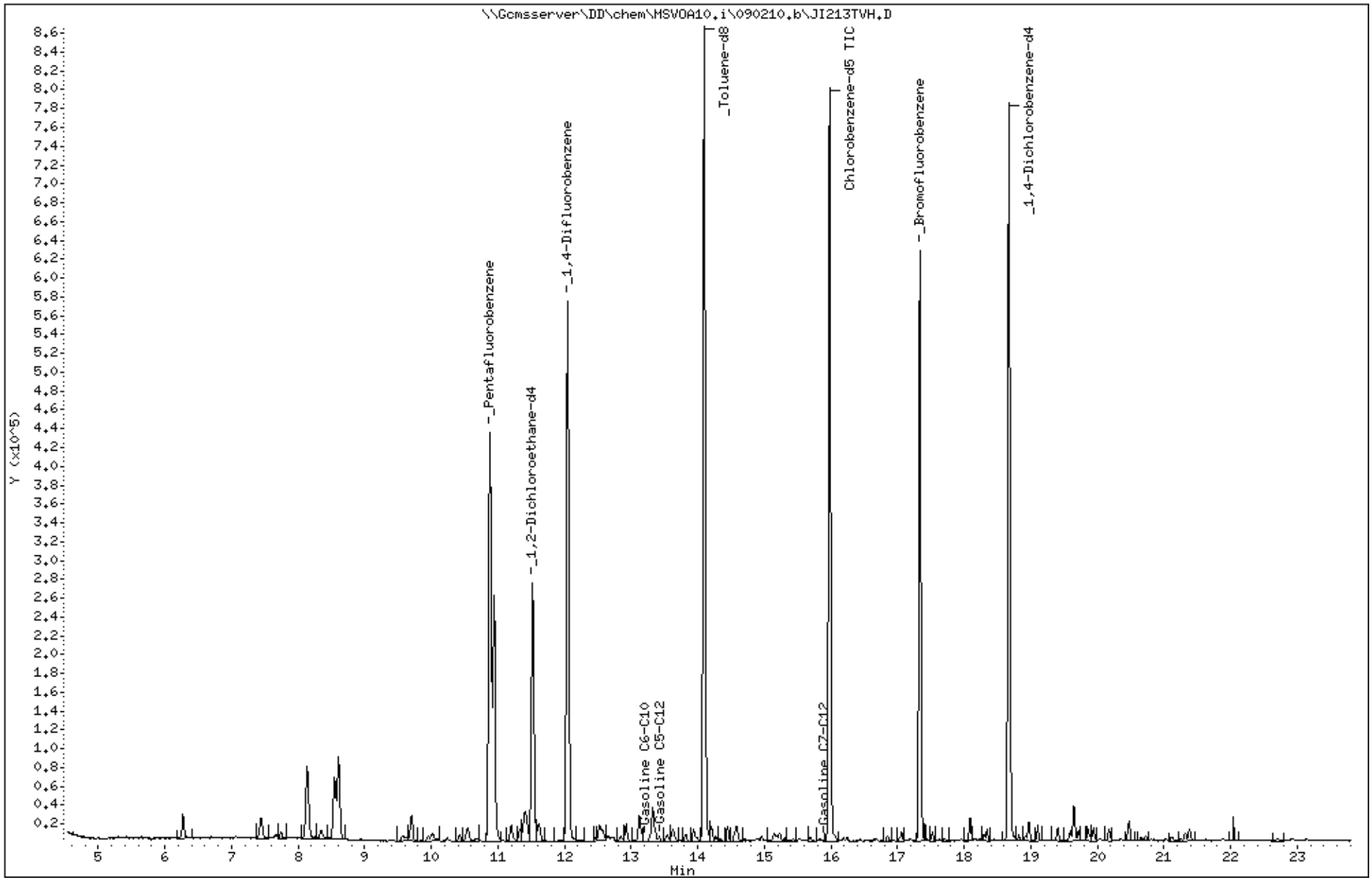
Instrument: MSVOA10.i

Sample Info: S,222149-003,

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\090310.b\JI316TVH.D

Date : 03-SEP-2010 17:08

Client ID: DYNA P&T

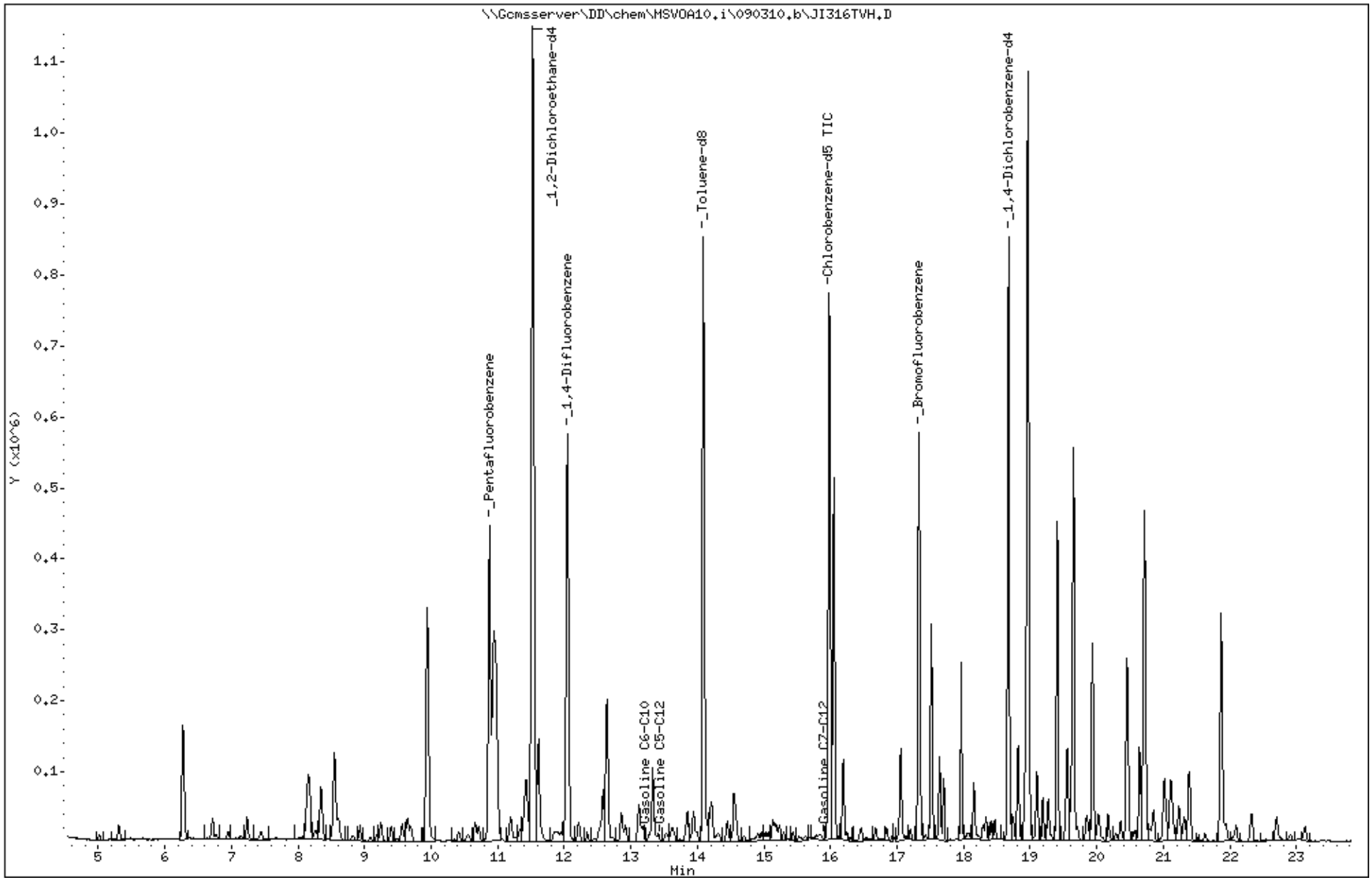
Instrument: MSVOA10.i

Sample Info: S,222149-006,

Operator: VOA

Column phase:

Column diameter: 2.00



Data File: \\Gcmsserver\DD\chem\MSVOA10.i\090210.b\JI206TVH.D

Date : 02-SEP-2010 11:26

Client ID: DYNA P&T

Instrument: MSVOA10.i

Sample Info: CCV/BS,QC558441,166491,S14540,

Operator: VOA

Column phase:

Column diameter: 2.00