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TRANSMITTAL

DATE: February 25, 2010

REFERENCE NO.: 521000

PROJECT NAME: 1137-1167 65th Street, Oakland

TO: Ms. Barbara Jakub
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

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Copy to: Mr. Frederic Schrag *(electronic only)*
Mr. Dennis Parfitt

Completed by: Bob Foss [Please Print]

Signed: Robert Foss

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ADDITIONAL SITE CHARACTERIZATION REPORT

1137-1167 65th STREET
OAKLAND, CALIFORNIA

AGENCY CASE NO. **RO0000082**

Prepared by:
Conestoga-Rovers & Associates

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1.0 INTRODUCTION

On behalf of Mr. John Nady, Conestoga-Rovers & Associates (CRA) is submitting this *Additional Site Characterization Report* for the subject site. Work was performed under the July 1, 2008 *Additional Site Characterization Work Plan, 1137-1167 65th Street, Oakland, California 94608, Fuel Leak Case No. RO0000082* (Work Plan), conditionally approved by Alameda County Environmental Health Services (ACEH) in their September 3, 2008 letter (Appendix A). Modifications to the approved scope of work were made on June 17/June 30, 2009 (Relocation of soil borings along Ocean Ave), August 6, 2009 (soil vapor probe construction details) and August 28, 2009/September 17, 2009 (use of helium as leak detection gas and addition of O_2, CO_2 and methane analysis). These scope modifications are documented in email correspondence included in Appendix A. The project manager for ACEH is Ms. Barbara Jakub.

The following tasks were performed:

- ***Off-Site and Downgradient Characterization:*** To characterize groundwater in the residential area downgradient of the facility, off-site borings were drilled and soil and groundwater samples were collected and analyzed.
- ***Additional B-Zone and C-Zone Monitoring Wells:*** Four additional monitoring wells were installed; two in the B-Zone and two in the C-Zone. These wells were sampled with other monitoring wells during the Second Half 2009 monitoring event, performed on September 21-22, 2009. Groundwater monitoring results are provided in the attached tables.
- ***CPT and MIP Investigation:*** Along Peabody Lane, adjacent to the facility, 15 borings were logged using Cone Penetration Test (CPT) and Membrane Interface Probe (MIP). Most of these borings were advanced to 45 feet below grade (fbg). In the vicinity of MW-6 (A-, B- and C-Zones), CPT-MIP-11 was advanced deeper, with a grab groundwater sample collected from 56 to 60 fbg.
- ***Soil Vapor Characterization:*** Along Peabody Lane, nine soil vapor probes were installed. On September 17, 2009, soil vapors from the probes were sampled and analyzed.

Procedures and results are provided in the text of this report, supported with attached figures, tables and appendices.

1.1 SITE INFORMATION

Site Address	1137-1167 65th Street, Oakland, CA
Site Use	Commercial
Client and Contact	John Nady, Trustee of the Nady Trust Contact: Frederic Schrag
Consultant and Contact Person	CRA, Robert Foss, P.G.
Lead Agency and Contact Person	ACEH, Ms. Barbara Jakub
Agency Case No.	RO0000082

2.0 SITE BACKGROUND

2.1 SITE DESCRIPTION

The site currently comprises a group of buildings separated by narrow walkways and an outside parking area. The site includes the addresses 1137, 1145, 1147 and 1167 65th Street, in Oakland. Currently, various spaces are rented to artists and musicians. The surrounding area is comprised of mixed residential, commercial and light industrial uses. Historically, the facility was used for dry cleaning operations from approximately 1935 and terminating in 1978. Figure 1 is a site vicinity map. Figure 2 is an extended site map, illustrating the site buildings as well as surrounding roadways, residences and other structures.

2.2 HISTORICAL CHEMICAL USE

Six underground storage tanks (USTs) and associated conveyance piping (Figure 2) had been associated with dry cleaning chemical storage at the site. A liquid sample from each tank was collected and analyzed in September 2001 to profile the residual fluids for removal and disposal. Five of the six tanks were removed in February 2002, while the sixth, UST #5, was abandoned in place with agency concurrence. Each sample contained varying concentrations of petroleum hydrocarbons, in the ranges of gasoline, naphtha and diesel, and probably was composed primarily of stoddard solvent, a common dry cleaning fluid. Two additional USTs had been in use on the site and were removed in 1982 and 1998. A gasoline UST and overlying dispenser was located beneath a paved area east of the buildings. This tank was removed in 1982. A heating

oil tank was located beneath the sidewalk just north of the building at 1145 65th Street and removed in 1998.

3.0 ENVIRONMENTAL SETTING

Regional and Local Geology: Regionally, the site is located in the Coast Ranges Geomorphic Province of California. The origin of the local geology is apparently a prehistoric alluvial fan interfacing with marine estuarine deposits. Typical lithology of an alluvial fan consists of mixtures and interfingered lenses of gravel, sand, silt and clay. Distal alluvial fan deposits are typically comprised of smaller clastic sediments of finer sand, silt and clay, representing lower energy depositional conditions. These alluvial fan deposits may interface with marine estuarine sediments, predominantly comprised of silt and clay mixed with organic material and some discontinuous deposits of sand and gravel. Bedrock, well below these shallow sediments, is probably Mesozoic Franciscan Formation.

Beneath surface materials (concrete or asphalt) and fill, investigations to date have shown subsurface soils to generally consist of interbedded layers of low permeability silts and clays; moderately permeable mixtures of sandy silt and clay; and higher permeable silty sand. Elevation of the site is approximately 35 feet above mean sea level (ft msl) and local topography is generally flat.

Local Hydrogeology: Several water-bearing transmissive zones have been identified beneath the site. Within each zone, transmissive sediments may not be laterally continuous across the site. These zones are described, as follows:

- A-Zone: This zone is defined as shallow, discontinuous, water-bearing sediments found at depths between approximately 3.5 and 12 fbg. In localized areas, perched groundwater may exist within transmissive sediments ranging in thickness from 1.5 to 2 ft, and at depths between approximately 3.5 and 6 fbg. More extensive water-bearing transmissive sediments appear at depths of approximately 6 to 12 fbg, ranging in thickness from 1 to 6 ft. Groundwater found between 3.5 and 12 fbg may be hydraulically connected and groundwater in this zone may be semi-confined to unconfined.
- B-Zone: Boring logs from across the site suggest that this zone is less easily recognized and defined than either the A- or C-zones. The B-zone consists of thin, discontinuous water-bearing strata of lower permeability than either the A- or C-zones. These strata consist of clayey silty sands and sandy silts, with varying

amounts of gravels. This zone is located between 13 and 24 fbg, and exhibits semi-confined to confined conditions.

- C-Zone: The C-Zone consists of water-bearing, transmissive sediments found between 25 and 46 fbg, under semi-confined or confined conditions. Sediments at these depths appear to be discontinuous.

Table 1, *Well Construction Details,* provides monitoring well details for each of these zones. Groundwater flow direction and gradients for each zone are provided in Figures 5, 6 and 7, respectively. Figures 8, 9 and 10 represent general lithologic cross-sections of sediments beneath the site. Groundwater flow is typically calculated toward the southwest, in the general direction of San Francisco Bay.

4.0 PREVIOUS ACTIVITIES AND INVESTIGATIONS

The following provides a general overview of prior environmental activities and investigations:

1982 Tank Removal: A gasoline UST and associated gas pump were removed in 1982. Based on depressions in the site asphalt, the gasoline UST appears to have been located directly beneath the former gasoline pump (Figure 2).

1998 Tank Removal: In 1998, a 750-gallon heating oil UST was removed from beneath the sidewalk north and in front of the 1145 65th Street building (Figure 2). Approximately 18 cubic yards of impacted soil was removed from the UST cavity and transported under manifest for disposal. The former UST cavity was subsequently backfilled with clean fill and resurfaced. One confirmation soil sample was collected at a depth of 12 fbg and analyzed for total petroleum hydrocarbons as diesel (TPHd) and benzene, toluene, ethylbenzene, and total xylenes (BTEX). The sample contained 14 micrograms per kilogram (µg/kg) TPHd and no detectable concentrations of BTEX constituents. Additional information is present in the December 24, 1998 *UST Removal Report,* prepared by Artesian.

2001 UST Liquid Contents Removal: In September and October 2001, liquid samples were collected from the six remaining USTs at the site. These samples were analyzed to characterize each UST's contents for disposal. The liquid in the six USTs was removed and transported under chain of custody for disposal as hazardous waste in November 2001. The six samples contained concentrations ranging from 5,100 to 130,000,000 mg/L TPHg, from 2,500 to 59,000,000 mg/L TPH as naphtha (TPHna), and

from 19,000 to 280,000,000 mg/L TPHd. Only one UST (Exterior Tank #1) contained significant concentrations of BTEX and halogenated volatile organic chemicals (HVOCs) such as Tetrachloroethene (PCE) and various isomers of benzene (Propylbenzene, Isopropylbenzene, Trimethylbenzene, n-butylbenzene) and Naphthalene. Table 10 documents reported analytical results of each liquid sample from the four exterior tanks and the two interior tanks and Tables 7 and 8 contain analytical results of soil samples collected during their removal, as described below, in February and March 2002. Additional information is present in the May 17, 2002 *UST Removal Report,* prepared by SCI consultants.

2002 Tank Removal and Abandonment: In February 2002, five of the six USTs were excavated and removed. The remaining UST (Interior Tank #5) was filled with cement slurry and abandoned in place. NorCal Geophysical Consultants (NorCal) identified the UST locations. Soil and groundwater samples from the tank areas indicated elevated concentrations of TPH compounds including gasoline (TPHg), naphtha (TPHna), stoddard solvent (TPHss) and TPHd; along with BTEX and VOCs. Soil removed from the former UST areas was transported under manifest for disposal. Analytical results of grab-groundwater samples are presented in Tables 3 and 5 and soil samples in Tables 7 and 8. Additional information is contained in the May 17, 2002 *UST Removal Report,* prepared by SCI consultants.

2002 Soil Boring and Geophysical Survey: In November 2002, Cambria Environmental Technology Inc (Cambria) advanced eleven soil borings (SB-1 through SB-11) to further define the extent of petroleum hydrocarbons and VOCs in soil and groundwater beneath the site. Temporary wells were installed in each boring to measure groundwater depth and to collect grab groundwater samples. The eleven borings were located near the former USTs and known piping. For the area around USTs #1 through #4, soil and groundwater samples detected TPH (apparently stoddard solvent or mineral spirits) and VOCs. Separate phase hydrocarbon globules were observed in groundwater at SB-4 at the former gasoline UST/pump location. Additional information is provided in Cambria's February 13, 2003 *Soil and Groundwater Investigation Report*.

July 2003 Geophysical Survey: On July 7, 2003, NorCal conducted a limited site geophysical survey to identify any additional subsurface piping. NorCal detected piping apparently connecting the former Exterior USTs #1 through #4 and Interior USTs #5 and #6. From the Exterior USTs, piping apparently went under concrete, then under the 1167 65th Street building, made a right turn to the east and under the walkway to Interior USTs #5 and #6. Another conveyance pipe apparently continues under the building and northward to some unknown use, possibly related to the former dry

cleaning machines. Potential subsurface drain pipes were also observed during this survey. Subsurface piping identified by the geophysical survey is illustrated on Figure 2.

January 2004 Soil Boring Investigation: In January 2004, Cambria advanced numerous soil borings to further define the extent of petroleum hydrocarbons and VOCs in soil and groundwater beneath the site. Soil and groundwater samples were collected from A-Zone, B-Zone and C-Zone depths. Soil borings were designated SB-12 through SB-26, and were drilled in locations along Peabody Lane, in an alley adjacent to and west of 1167 65th Street, inside the facility (within the walkways) and under buildings, and in the sidewalk adjacent to 65th Street. Access for drilling equipment was limited inside the facility due to walls, doors, ceiling height and the narrow walkways. Thirty-three soil samples were collected for analyses from 11 boring locations. Twenty depth-discrete groundwater samples were collected from 12 locations, using a dual-walled direct-push drilling rig were necessary. Elevated concentrations of TPH as stoddard solvent (TPHss) were present at various locations and at depths down to 17.5 fbg. TPHd and TPHg concentrations were also found, but they may represent heavier and lighter stoddard solvent-range TPH constituents, rather than true diesel or gasoline. Of the 33 soil samples collected from 11 locations, benzene was detected only once, in SB-14A, located just downgradient of the former gasoline UST. The former gasoline UST was located beneath an asphalt surfaced lot, east of the buildings. PCE was detected only once in soil, at a very low concentration 13 µg/kg and TCE was not detected, though laboratory detection limits were high. TPH was detected in groundwater and benzene was detected in six of the 20 groundwater samples analyzed, but only once above 5 µg/l. Dissolved-phase PCE was identified only at SB-18, in the B- and C-Zone samples collected in the alley off Peabody Lane. Additional information is provided in Cambria's February 24, 2004 *Interim Investigation Data Report*.

January 2004 Sensitive Receptor Survey: In January 2004, Cambria conducted a sensitive receptor survey for beneficial use wells (e.g., municipal supply, domestic, irrigation, etc.) and surface water bodies within ½-mile of the site. While several environmental monitoring wells were located during the survey, Cambria did not locate any surface water bodies or beneficial use wells within ½-mile of the site. Cambria stated that local groundwater is not currently, nor reasonably considered as a potential future source of drinking water. Cambria also conducted a conduit study to evaluate if preferential migration pathways exist near the site and merit additional investigation. No preferential migration pathways were located adjacent to the site in Peabody Lane. Based on site concentrations in grab groundwater samples near 65th Street, it is unlikely that preferential migration is occurring via the underground utilities located in

65th Street. Additional information of the January 2004 Sensitive Receptor Survey and Conduit Study can be found in Cambria's February 24, 2004 *Interim Investigation Data Report*.

May 2004 Soil Boring and Well Installation Investigation: In May 2004, Cambria drilled 13 additional soil borings and constructed monitoring wells MW-1A through MW-4A, and MW-6A and MW-7A; wells MW-1B, MW-4B, MW-5B and MW-6B; and MW-1C, MW-4C and MW-6C. Twelve borings were advanced using a hollow-stem auger drill rig and one boring (MW-7A) was advanced with a hand auger. Soil samples were collected to depths of 20 fbg and groundwater samples were collected from these wells. Additional information is provided in Cambria's September 7, 2004 *Supplemental Soil and Groundwater Investigation Report.*

August-September 2009 Additional Site Characterization: Additional site characterization was performed as presented in this document. This included three offsite borings, four additional monitoring wells, 15 borings logged with CPT and MIP, one deep groundwater sample; and the installation and sampling of nine soil vapor probes.

Groundwater Monitoring: Quarterly groundwater monitoring and sampling have been performed at the site since 2004. In response to State Water Resources Control Board Resolution No. 2009-0042, dated May 19, 2009, semi-annual groundwater monitoring and sampling was implemented during the second quarter of 2009. As a result, monitoring, sampling, and reporting are now conducted during the first and third quarters of the calendar year. Monitoring well details and analytical data are provided in Tables 1 and 2, respectively. Groundwater Monitoring Reports have been submitted to the agency.

5.0 CHEMICALS OF POTENTIAL CONCERN

Chemicals of potential concern at this site are are stoddard solvent, PCE and vinyl chloride. Both stoddard solvent and PCE are common dry cleaning chemicals, and vinyl chloride is frequently observed as a degradation product of PCE. Stoddard solvent (aka White Spirit) is a mixture of hydrocarbon molecules, primarily composed of carbon chains ranging between C_9 and C_{12}, along with ethylbenzene, xylenes, and benzene isomers. PCE, common to the dry cleaning industry, was a significant component of the liquid removed from Exterior Tank #1. PCE can degrade into TCE and Dichloroethene (DCE), and eventually to vinyl chloride. The former UST removed in 1982 was

identified as having contained gasoline. The former UST removed from beneath the sidewalk on 65th Street probably contained heating oil-range hydrocarbons.

6.0 ENVIRONMENTAL INVESTIGATION 2009

The following are procedures and results for the 2009 environmental investigation.

6.1 SOIL AND GRAB GROUNDWATER SAMPLING PROCEDURES AND RESULTS

Three off-site borings were drilled downgradient of the site, one in the residential area and two along Ocean Avenue. Soil and groundwater samples were collected and procedures and results are presented below. An additional grab groundwater sample was collected in CPT-MIP-11. The CPT-MIP borings are discussed below in Section 6.3 *CPT and MIP Borings.*

6.1.1 SOIL AND GROUNDWATER SAMPLING PROCEDURES

Boring locations are illustrated on Figure 2. Analytical results from the various borings/samples are provided on subsequent Figures 3-4 and 11-14. The off-site borings are identified as SB-26, SB-27 and SB-28. The investigation was performed in accordance with the conditionally approved Workplan. There were two deviations from the approved scope of work due to site constraints. Specifically:

- A grab groundwater sample was not analyzed for TPHd in SB-26-12-W (12 feet, A-Zone) due to insufficient groundwater recharge.
- No A-zone groundwater was encountered in borings SB-27 and SB-28 and therefore no samples could be collected.

Drilling Dates: Soil borings SB-26, SB-27 and SB-28 were advanced on August 12 and 17, 2009.

Project Personnel: CRA Staff geologist John Bostick, with periodic support from staff scientist Calvin Hee, performed the field work, overseen by Senior Project Geologist Mark Jonas, California Professional Geologist No. 6392.

Permits: Drilling Permit W2009-0697 was issued by the Alameda County Public Works Agency. Excavation Permit #X0901016 was issued by the City of Oakland, Office of Planning and Building. Both these permits are included in Appendix C.

Utility Survey: CRA marked out boring locations with white paint and notified underground service alert (USA) to have the subsurface utilities identified and marked. CRA also completed a private utility survey at the proposed boring locations with California Utility Surveys of San Ramon, California.

Drilling Company: Gregg Drilling (C-57 License #485165) of Martinez, California advanced soil borings using a hand auger and direct push drilling.

Drilling Method: After the boring locations were cleared for subsurface utilities, Gregg Drilling advanced borings by breaking through surface asphalt and coring concrete, when necessary, followed by hand augering for utility clearance. Below the hand cleared depth, direct-push drilling advanced the borings to their total depths. Temporary conductor casing was using installed for B-Zone (24 fbg) and C-Zone (40 fbg) borings to enable the collection of grab groundwater samples.

Soil Sampling Method: Soil samples were collected with a hand auger and deeper samples were collected using the direct-push drilling rig sampling tools. CRA logged the soil in each boring, and these boring logs are included as Appendix D. Soil samples were screened using a photoionization detector (PID) with results presented on the boring logs. Soil samples for analysis were collected, labeled, placed in a cooler with ice and documented on a Chain of Custody record (COC). Soil samples were submitted to McCampbell Analytical, Inc. (McCampbell) for analysis, with appropriate documentation and signatures on the COC.

Soil Sample Analyses: Soil samples were analyzed for TPHss, TPHd with Silica Gel Cleanup, TPH as motor oil (TPHmo) and TPHg with fuel fingerprinting, along with BTEX and the Halogenated Volatile Organic Compound (HVOC) Target List. Laboratory analytical reports and COCs are provided in Appendix G.

Grab Groundwater Sampling Method: To sample the A-Zone, borings were advance to approximately 12 fbg and allowed to recharge. Groundwater recharge at 12 fbg occurred only in boring SB-26, and only to the extent that samples for TPHg, TPHss, BTEX and HVOCs could be collected. A sample to be analyzed for TPHd requires a 1-liter amber container, and an insufficient volume of water recharged to collect that required volume. No A-Zone groundwater samples could be collected from borings

SB-27 and SB-28. B-Zone and C-Zone samples were collected after conductor casing was installed to ensure collection of discrete zone samples. Samples were collected using a clean bailer. Each sample was labeled, placed on ice in a cooler, documented on a COC, and submitted to McCampbell for analysis.

An additional grab groundwater sample was collected in the CPT-MIP-11 boring, using direct push. This sample (CPT-11-W) was collected below the C-Zone at the depth interval of 56-60 fbg.

Grab Groundwater Sample Analysis: Each grab groundwater sample was analyzed for TPHss, TPHd with Silica Gel Cleanup, TPHmo, and TPHg with fuel fingerprinting, along with BTEX and the HVOC Target List. Laboratory analytical reports and COCs are provided in Appendix G.

6.1.2 SOIL SAMPLING RESULTS

Soil analytical results are presented in Tables 7 and 8, and in Appendix G. TPHss and TPHg were reported at 360 and 220 mg/kg, respectively, at 10 feet below grade (fbg) in sample SB-26-10, with a significantly lower concentration of 1.4 mg/kg and ND<1.0, respectively, in SB-26-16 at 16 fbg. Fuel fingerprinting of these samples indicated stoddard solvent and a small pattern within the diesel ranges of C_{10}-C_{23} in SB-26-10. No detectable pattern evident in sample SB-26-16. This is reiterated in the lab report notes, stating that the TPH chromatogram does not appear to be derived from gasoline, and suggests stoddard solvent or mineral spirits. No TPH was detected in any samples from Ocean Avenue boring SB-27 and no HVOCs were detected in either boring B-26 or B-27. No hydrocarbons were detected in samples MW-3B-5, MW-3C-10 and MW-3C-15, except minor concentrations of 2.4 mg/kg TPHd and 13 mg/kg TPHmo. The fuel fingerprint for sample MW-3C-15 stated a small pattern in the diesel range and a significant pattern between C_{18} and C_{36}, resembling motor oil, possibly cutting oil. Samples from borings MW-7C-7, -8.5 and -10 reported hydrocarbons ranging from 22 mg/kg TPHd to 590 mg/kg TPHss. All three sample fuel fingerprints were reported as resembling stoddard solvent.

6.1.3 GRAB GROUNDWATER SAMPLING RESULTS

Grab groundwater sampling results are provided in Tables 3 and 5, Appendix G and on Figure 13. Only minor concentrations of TPHss at 75 µg/l and TPHg at 65 µg/l were

detected in SB-26, and only in the A-Zone (12 feet). B-Zone and C-Zone samples collected from SB-26 were non-detect for all analytes. Low reported concentrations in SB-26-12-W made definitive hydrocarbon fingerprinting determination impossible, however, it was reported that the sample appeared to have a chromatographic pattern resembling aged gasoline or stoddard solvent.

TCE was detected at 7.5 µg/l in the B-Zone sample SB-27-24-W. TCE was also detected at 5 µg/l in SB-28-24-W, along with 0.56 µg/l cis-1,2-DCE and 760 µg/l TPHss. Fingerprinting of SB-28-24-W confirmed stoddard solvent. Samples collected from the C-Zone were generally non-detect for all analytes, except for 57 µg/l TPHd, 250 µg/l TPHmo and toluene at 2.6 µg/l in SB-27-40.

Analytical results for CPT-11-W, collected below the C-Zone from 56 to 60 fbg, were non-detect for the analytes tested.

6.2 MONITORING WELL INSTALLATION AND SAMPLING

Four new monitoring wells were installed on-site: MW-3B, MW-3C, MW-7B, and MW-7C. The locations of these wells are identified on Figure 2. Figures 6 and 7 show these new wells and document September 2009 groundwater analytical results. Well construction details are presented in Table 1. Analytical results are presented in Tables 2, 4 and 6, and the lab reports are included in Appendix G. Boring and well construction logs are provided in Appendix D.

6.2.1 WELL INSTALLATION PROCEDURES

Drilling Dates: After hand augering for utility clearance, Gregg Drilling and CRA advanced soil borings and constructed these wells during August 10-17, 2009.

Project Personnel: CRA Staff geologist John Bostick, with periodic support from staff scientist Calvin Hee, performed the field work, overseen by Senior Project Geologist Mark Jonas, California Professional Geologist No. 6392. California Utility Surveys performed the utility survey prior to drilling activities.

Permits: Drilling Permits W2009-0693 through -0696 were issued by the Alameda County Public Works Agency, and are included in Appendix C.

Drilling Company: Gregg Drilling (C-57 License #485165) of Martinez, California advanced soil borings using a hand auger followed by drilling.

Utility Survey: Boring locations were marked with white paint and underground service alert (USA) was called to have subsurface utilities marked. A private utility survey of the proposed boring locations by California Utility Surveys of San Ramon, California was also conducted.

Drilling Method: After the boring locations were cleared for subsurface utilities, Gregg Drilling advanced borings breaking through surface asphalt and coring concrete, when necessary, followed by hand augering for utility clearance, then drilling and setting the 1 inch monitoring wells.

Well Survey: These new wells were surveyed with the data presented in Appendix J.

Soil Sampling Method: Soil samples from the borings were collected with a hand auger at 5 fbg. Deeper samples were collected with a "split spoon" sampling tool. CRA logged the soil in each boring. Boring logs are included in Appendix D. Soil samples were screened using a photoionization detector (PID), with results noted on the logs. Soil samples were collected, labeled, placed on ice in a cooler, and documented on a Chain of Custody record (COC). Soil samples were submitted to McCampbell Analytical, Inc. (McCampbell) for analysis, with appropriate documentation and signatures on the COC.

Soil Sample Analyses: Samples were analyzed for TPHss, TPHd with Silica Gel Cleanup, TPHmo, and TPHg, along with BTEX compounds and the HVOC Target List. A fuel fingerprint description was requested, also. Analytical results are presented in Tables 7 and 8, and laboratory analytical reports are included in Appendix G.

Groundwater Sampling Procedures and Analysis: Groundwater samples were collected during the semi-annual groundwater monitoring event, with procedures and results presented in the November 6, 2009 *Groundwater Monitoring Report – Second Half 2009.*

6.2.2 MONITORING WELL SAMPLING RESULTS

Groundwater analytical results for MW-3B, MW-3C, MW-7B, and MW-7C are included on Figures 6 and 7 and in Tables 2, 4 and 6. No analytes were detected in MW-3B and MW-3C, except for 79 µg/l TPHd (MW-3C). Elevated concentrations of TPH as

stoddard solvent, as diesel and as gasoline were detected in MW-7B at 1,700, 6,300 and 1,300 µg/l, respectively. TPHss, TPHd and TPHg were also detected in MW-7C at 2,300, 1,900 and 1,600 µg/l, respectively. Minor concentrations of Chlorobenzene were detected in groundwater from both MW-7B and MW-7C, and minor 1,2-Dichlorobenzene in MW-7C. PCE and TCE were not detected in any samples collected from the new monitoring wells.

No detected concentrations of TPH or VOCs were reported in samples from MW-3B or MW-3C, 2.4 mg/kg TPHd and 13 mg/kg TPHmo at 15 fbg in MW-3C. Moderate TPH concentrations were reported from 7 to 10 fbg in MW-7C samples. These concentrations ranged from 22 mg/kg diesel to 590 mg/kg stoddard solvent. A notation on the lab report suggests this to be stoddard solvent. Analytical results are documented in Tables 7 and 8.

6.3 CPT AND MIP BORINGS

Fifteen CPT-MIP logged borings were advanced along Peabody Lane. The recorded response of these tools is presented on Figures 11 and 12, as well as the full reports in Appendices E and F.

6.3.1 CPT AND MIP BORING PROCEDURES

No soil samples were collected from the CPT borings, and only one groundwater sample was collected, from boring CPT-11-W, as described in the previous section. Additional details are presented as follows:

Drilling Dates: After hand augering for utility clearance, Gregg Drilling and CRA advanced the CPT-MIP borings from August 17-20, 2009.

Permits: Drilling Permit W2009-0697 was issued by the Alameda County Public Works Agency. A copy of this permit is included in Appendix C.

Drilling Method: After the boring locations were cleared for subsurface utilities, Gregg Drilling advanced borings breaking through surface asphalt and coring concrete, when necessary, followed by hand augering for utility clearance, and advancing the CPT tool by direct-push. Gregg logged CPT, with the MIP logging performed by Vironex.

6.3.2 MIP RESULTS

As presented on Figures 11 and 12, the MIP PID detected VOCs in relatively shallow soil, with the highest indications between approximately 10 and 18 fbg. The MIP tool also identified significant decreases, or at least decreasing trends, by 20 fbg. The VOC response in CPT-MIP-1 is possibly gasoline due to its location relative to the former gasoline UST. The tool's recorded response in other CPT-MIP borings more likely represents TPHss or chlorinated VOCs associated with dry cleaning. Most of the elevated concentrations were adjacent to the facility and showed higher levels downgradient of former UST #2 (CPT-MIP-5) and adjacent to the southern wall of the 1167 65th Street building (CPT-MIP-7 and -8) Tool response decreased in CPT-MIP-9, near the southwest corner of the 1167 65th Street building. The investigation indicated a higher response southwest of the corner of this building in CPT-MIP-10, increasing in CPT-MIP-11 through -13, and decreasing in CPT-MIP-14, to essentially no response in CPT-MIP-15. The Electronic Capture Detector (ECD) was generally non-responsive, except at CPT-MIP-7 and -8, where elevated HVOCs may exist from 22 to 32 fbg

6.4 SOIL VAPOR SAMPLING PROCEDURES AND RESULTS

Soil vapor probes were installed at locations presented on Figures 2 and 14. Boring logs and construction details are included in Appendix D. Soil vapor analytical results for the September and December 2009 sampling events are provided in Table 9 and Appendix H. Field data sheets are provided in Appendix I.

6.4.1 SOIL VAPOR SAMPLING PROCEDURES

Soil vapor probes VW-1 through VW-9 are shown on Figure 2, and vapor sampling analytical results are plotted on Figure 14. Construction of the soil vapor probes generally follow the standard field procedures presented in Appendix B, based on the Department of Toxic Substances Control's (DTSC) January 28, 2003 *Advisory-Active Soil Gas Investigation* (DTSC *Advisory*).

Installation and Sampling Dates: On August 10, 11 and 20, 2009, CRA and Gregg Drilling installed soil vapor probes VW-1 through VW-9. Vapor samples were collected on September 17 and December 9, 2009.

Permits: Drilling Permit W2009-0698 was obtained from the Alameda County Public Works Agency. An excavation permit was issued by the City of Oakland, Office of Planning and Building. Copies of these permits are included in Appendix C.

Probe Materials: The soil vapor probes were constructed following CRA's standard operating procedures (Appendix B), and based on the January 28, 2003 DTSC *Advisory-Active Soil Gas Investigation* guidelines. The probes were constructed using a ¼ inch Teflon sampling tube connected to a ¼ inch high density polyethylene screen. The borings were approximately 5 ft deep and a sampling tip was installed in a sand pack. Monterey sand #2/12 was placed around the screen and bentonite was placed above the sand as a seal. The probe was capped with a grade-level well box. Soil vapor probe construction log is presented in Appendix D.

Soil Vapor Sampling: Soil vapor probes were sampled on September 17, 2009. Soil vapor sampling and leak testing were performed following the January 28, 2003 DTSC *Advisory-Active Soil Gas Investigation* guidelines. Soil vapor sampling data sheets are presented in Appendix I. Purging and sampling were conducted at a rate of approximately 100 milliliters per minute (ml/min). Vapor samples were collected in 1-liter Summa canisters after removing approximately three purge volumes from the screen and tubing. Each sample was labeled, documented on a COC (Appendix H), and submitted to Air Toxics, Ltd. of Folsom, California for analysis.

Soil Vapor Sample Analysis: Each soil vapor sample was analyzed according to the *Work Plan*, as conditionally modified by the correspondence presented in Appendix A. The *Additional Site Characterization Work Plan*, dated July 1, 2008, stated that vapor samples would be analyzed stoddard solvent by EPA Method TO-3, but this was changed to analysis by Modified EPA Method TO-17.

6.4.2 SOIL VAPOR SAMPLING RESULTS

Vapor samples were collected on September 17, 2009 and analyzed by EPA Method TO-17 for TPHss and by Modified EPA Method TO-15 for TPHg, BTEX and five HVOCs. Due to the unanticipated high reported concentrations of vapor phase TPHss and TPHg, a second sampling event occurred on December 9, 2009. Analytical results from both events are tabulated on Table 9. Analytical results reported the highest vapor concentrations of TPHss in samples collected from VW-1, VW-3 and VW-5, with lower, yet still elevated, concentrations reported in VW-2 and in offsite vapor probe VW-9. The highest vapor concentrations of TPHg in onsite vapor probes were also detected in

VW-1, VW-3 and VW-5, with elevated concentrations reported offsite in VW-8 and VW-9. VW-1 is located in a walkway between buildings. This probe is located directly adjacent to UST #5, abandoned in place in February 2002. VW-1 contained TPHg and TPHss concentrations of 14,000,000 and >730,000 micrograms per cubic meter ($\mu g/m^3$), respectively. Elevated concentrations of TPH in all ranges reported in a soil sample associated with UST #5 likely explain the high vapor concentrations reported from VW-1. VW-2 was installed in the east-west trending walkway between 1145 and 1167 65th Street. This vapor probe also reported elevated concentrations of both TPHss and TPHg at 650,000 and 460,000 $\mu g/m^3$ in the September 2009 vapor sample. A shallow grab groundwater sample collected from SB-8, approximately 7 feet south of VW-2, contained TPHg and TPHss at 110,000 and 100,000 $\mu g/l$, respectively, and suggests that a source area may be nearby. VW-3 contained TPHg and TPHss concentrations of 12,000,000 and >1,100,000 $\mu g/m^3$, respectively. Vapor well VW-4, located approximately 90 feet in the downgradient direction of groundwater flow from VW-3 contained 11,000 $\mu g/m^3$ TPHss and 3,300 $\mu g/m^3$ TPHg. These concentrations are at least two orders of magnitude lower than VW-3. VW-5, located south of former UST #6, also reported high vapor phase concentrations at 12,000,000 $\mu g/m^3$ TPHg and >1,100,000 $\mu g/m^3$ TPHss. There were no apparent former operations or potential sources in the vicinity of VW-5, except the upgradient former UST #6, approximately 30 feet north, and the former gasoline UST, approximately 40 feet east, of this vapor point. This vapor probe is located near Peabody Lane, behind the building. VW-6 is located approximately 25 feet south of VW-5, across Peabody Lane. Reported concentrations in VW_6 are substantially lower than those in nearby VW-5. VW-6, VW-7, VW-8 and VW-9 are located along the south side of Peabody Lane, and reported TPHg concentrations of 51,000, 940, 100,000 and 520,000 $\mu g/m^3$, respectively. These vapor points also reported TPHss concentrations of 9,300, <3,300, 21,000 and 73,000 $\mu g/m^3$, respectively. Vinyl chloride was reported at 1,600 $\mu g/m^3$ VW-8.

December 9, 2009 vapor results reported lower concentrations of TPHg in five of six samples. These lower concentrations averaged less than half those reported in September. The one exception was VW-7 at 1,800 $\mu g/m^3$ TPHg, an increase from the previous 940 $\mu g/m^3$. Vinyl chloride in VW-8 decreased to 1,300 $\mu g/m^3$ in December. For all other compounds, TO-15 sample results were either lower than the September 17 results or below detection limits. TO-17 results for stoddard solvent, similar to the September results, reported high concentrations exceeding the instrument calibration range. Any future vapor sampling for stoddard solvent should involve a smaller sample so as not to again exceed the instrument's range.

During the December 9, 2009 sampling of VW-2, VW-6 and VW-9, groundwater was drawn into the tubing and Summa canister due to a recent rise in the shallow groundwater table. As a result, these samples were not analyzed. Similarly, water prevented the collection of sorbent tube samples for TO-17 analysis from these same three vapor probes. The laboratory reported that four of the six sorbent tubes were inadvertently damaged during sampling by an over-tightening of the connections which caused a leakage from the tubes. As a result of these factors, TO-15 analytical results were reported for six of the nine vapor probes and TO-17 analytical results were reported for only two of the vapor probes.

Oxygen concentrations reported by ASTM Method D-1946 for both September and December events ranged from 1.3 to 16 percent and were below atmospheric levels of 23 percent confirming that the sample results are representative of subsurface conditions.

7.0 A-, B- AND C-ZONE WATER LEVEL DATA COLLECTION

Due to the complex nature of the hydrostratigraphy underlying the site, Mr. Dennis Parfitt of the California State Water Resources Control Board (SWRCB), suggested acquiring time-series water level data to develop a better understanding of the interconnections between the three identified water bearing zones. Three data loggers were installed in the MW-1 well cluster. Data were recorded daily and retrieved at 3 to 4 week intervals. The recorded water levels are plotted on Figure 15.

8.0 CONCLUSIONS AND RECOMMENDATIONS

8.1 CONCLUSIONS

The following conclusions are made based on an evaluation of the historical and recently acquired data:

Hydrogeology

- Similar fluctuations in recorded water levels indicate that a hydraulic connection exists between the A- and B-zones. A slightly discernable correlation between recorded water levels indicates there is significantly less hydraulic connection between the B- and C-zones. Groundwater encountered in both the B- and C-zones

exhibited a rise to equilibrated levels after first being encountered at deeper depths. This effect suggests that confined or semi-confined conditions exist within the B- and C-zones. The absence of contaminants in the C-zone appears to confirm these conditions. Additional groundwater sampling will is needed to further confirm this conclusion.

Soil and Groundwater Impacts

- The analytical quantification ranges for gasoline- and diesel-range hydrocarbons and stoddard solvent overlap (TPHg C_6 through C_{12}, TPHd C_{10} through C_{23} and TPHss C_9 through C_{12}). Fuel fingerprint analysis used to differentiate the sample results indicated that all TPH detections had chromatogram patterns resembling stoddard solvent. As a result, the reported concentrations likely represent stoddard solvent and not gasoline or diesel.
- Soil and groundwater sample analytical results indicate that stoddard solvent impacts are present onsite, and confirmed offsite beneath Peabody Lane and in the vicinity of SB-26A. Vertically into the B-zone, stoddard solvent has been identified in soil at a depth of approximately 17.5 fbg in boring SB-7. Discrete B-zone grab groundwater samples have not been collected but stoddard solvent has been identified in two onsite wells with screened intervals between 17 and 24 fbg. The minor hydrocarbon concentrations detected in soil and groundwater from the underlying C-zone do not appear to be representative and may result from soil or groundwater entering the borehole from above. Future C-zone well sampling should provide sufficient data to confirm this. Figures 16, 17 and 18 show inferred contours of TPH range hydrocarbons (TPHss/TPHg) in the A-, B- and C-zones, respectively. These data were collected between November 2002 and August 2009.
- Little to no PCE and TCE are present onsite except in the vicinity of boring SB-18B, located in the southwest corner of the site. PCE and TCE were detected in SB-18B at 630 µg/l and 430 µg/l, respectively, at 25 fbg. Boring SB-18 is located upgradient of SB-28. No PCE was detected in SB-28-24-W and only 5.0 µg/l TCE and 0.56 µg/l cis-1,2-DCE were reported. A comparison of these two sample results suggests that TCE concentrations decrease substantially with distance from site source area(s). TCE is frequently seen as a degradation product of PCE and Cis-1,2-DCE a degradation product of TCE. Their presence in boring SB-28 may suggest further degradation of these chlorinated VOCs with distance from the source area(s). Likewise, the reported concentration of cis-1,2-DCE in sample SB-28-24-W exhibits the same correlation, compared to 1,100 µg/l in upgradient boring SB-17B reported in January 2004 from essentially the same depth. These comparisons suggest either a

nearly complete degradation of these compounds as groundwater migrates away from the source area(s) or a minimal lateral hydraulic connection through subsurface sediments. The reported concentration of TPHss in grab-groundwater sample SB-28-24-W, when compared to upgradient well MW-6B, suggests that TPHss concentrations decrease with distance from the known onsite source areas, also.

Soil Vapor Impacts

- High hydrocarbon concentrations in soil vapor are present beneath the approximate center of the site and in the vicinity of USTs #5 and #6. The reported concentrations diminish by at least one to two orders of magnitude towards the southwest corner of the onsite building and the south side of Peabody Lane.
- VOC concentrations in soil vapors collected beneath the building were below the laboratory detection limits. However, high TPH range soil vapor concentrations resulted in elevated detection limits for chlorinated solvents and BTEX, which in several cases were greater than commercial/industrial Environmental Screening Levels (ESLs) for one or both sampling events. Soil vapor concentrations in offsite vapor probes exceed residential ESLs for all sample locations except VW-7.
- Soil vapor concentrations collected from on-site vapor probes exceed the RWQCB's commercial/industrial land use ESLs for TPH (gasoline) and TPH (middle distillates) and, potentially, for chlorinated solvents also. The potential risk of vapor intrusion to onsite occupants is at least partially mitigated by concrete or asphalt covering the site.

8.2 RECOMMENDATIONS

Based on the above conclusions, CRA makes the following recommendations:

- Initial analytical results from newly installed wells can sometimes be accentuated due to the disruption of equilibrated subsurface conditions. Therefore, CRA recommends that the four newly installed wells be incorporated into the semi-annual monitoring and sampling event (March 2010) to confirm initial analytical results and the minimal (or lack of) hydraulic connection between the shallower A-/B-zones and the deeper C-zone.
- As a result of high reported concentrations of soil vapors and a very shallow water table, it is recommended that additional vapor sampling comprised of ambient indoor and outdoor air sampling be conducted. Under normal circumstances

sub-slab sampling would occur before the collection of indoor air. However, high soil vapor concentrations reported from 5 fbg and the presence of a shallow water table suggest that analytical results reported from sub-slab sampling would dictate that indoor ambient air sampling be conducted, also. Therefore, it is recommended that indoor air sampling be conducted soon instead of sub-slab sampling due to the impending occupancy of a new tenant who will use paints, thinners and possibly other VOC emitting compounds in their business operations. Concurrent with indoor ambient air sampling, a survey of chemicals stored and used within the onsite buildings should occur, and an evaluation of mechanical and passive ventilation methods will be documented. If warranted and requested, additional sampling, which may include sub-slab vapor sampling, can be conducted and the results might assist in a determination of the need to further investigate soil vapors downgradient of the site.

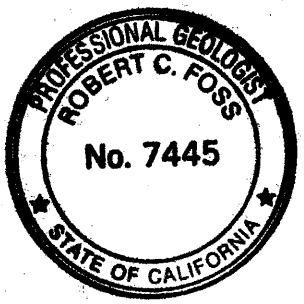
- The acquisition of shallow A-zone groundwater data beneath Ocean Avenue was an important objective of this investigation. Borings SB-27 and SB-28 were drilled to A-zone depths but no water accumulated in either boring. Therefore, no samples were collected. We recommend advancing two additional borings along Ocean Avenue and, if necessary, leaving the borings open long enough for sufficient water to accumulate for sampling.
- Site conditions should be re-evaluated and further recommendations provided following the collection of additional soil vapor and groundwater samples.

All of Which is Respectfully Submitted,

CONESTOGA-ROVERS & ASSOCIATES

Calvin Hee

Robert Foss



Robert Foss, P.G.

To the best of my knowledge, I have no argument or disagreement with the contents of this report.
Nady Trust U/D/T dated 1/21/1997

John Nady

John Nady, trustee

FIGURES

12/19/02

H:\SB-2004\NADY\FIGURES\VICINITY-MAP.AI

FIGURE 1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

1137 - 1167 65th Street

Oakland, California

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line

65TH STREET

PEABODY LANE

VALLEJO STREET

OCEAN AVENUE

MARSHALL STREET

SB-19A
MW-4A
SB-1
SB-25C
SB-25A
MW-4B
MW-4C
former heating oil tank location
1145 65TH STREET
SB-2
MW-5B
MW-3B
VW-2
SB-23
floor drain
SB-22A/C
VW-3
SB-8
MW-3A
SB-13
SB-21A
MW-7A
MW-7C
MW-3C
SB-24
MW-7B
1167 65TH STREET
SB-3
SB-11
former gasoline UST and pump location
SB-9
VW-1
former tank location
MW-2A
SB-4
SB-12A
product piping
filled in place tank location
SB-26A
VW-5
Exterior tank area
SB-10
SB-14C
SB-14A
CPT-MIP-1
CPT-MIP-5
CPT-MIP-6
SB-5
CPT-MIP-2
VW-6
SB-16A
CPT-MIP-3
CPT-MIP-4
MW-1B
MW-1A
MW-1C
SB-15A
VW-4
parking lot
SB-18A
SB-6
CPT-MIP-7
VW-7
car port
redidence
SB-18B/C
CPT-MIP-10
CPT-MIP-11
CPT-MIP-12
SB-7
CPT-MIP-8
SB-17B
VW-8
SB-17A/C
Day Care
shed
SB-26
MW-6A
CPT-MIP-9
MW-6C
MW-6B
CPT-MIP-13
CPT-MIP-14
VW-9
vacant lot
residence
CPT-MIP-15
SB-20A/C
SB-27
SB-28
shed
residence
0 20 50ft
N

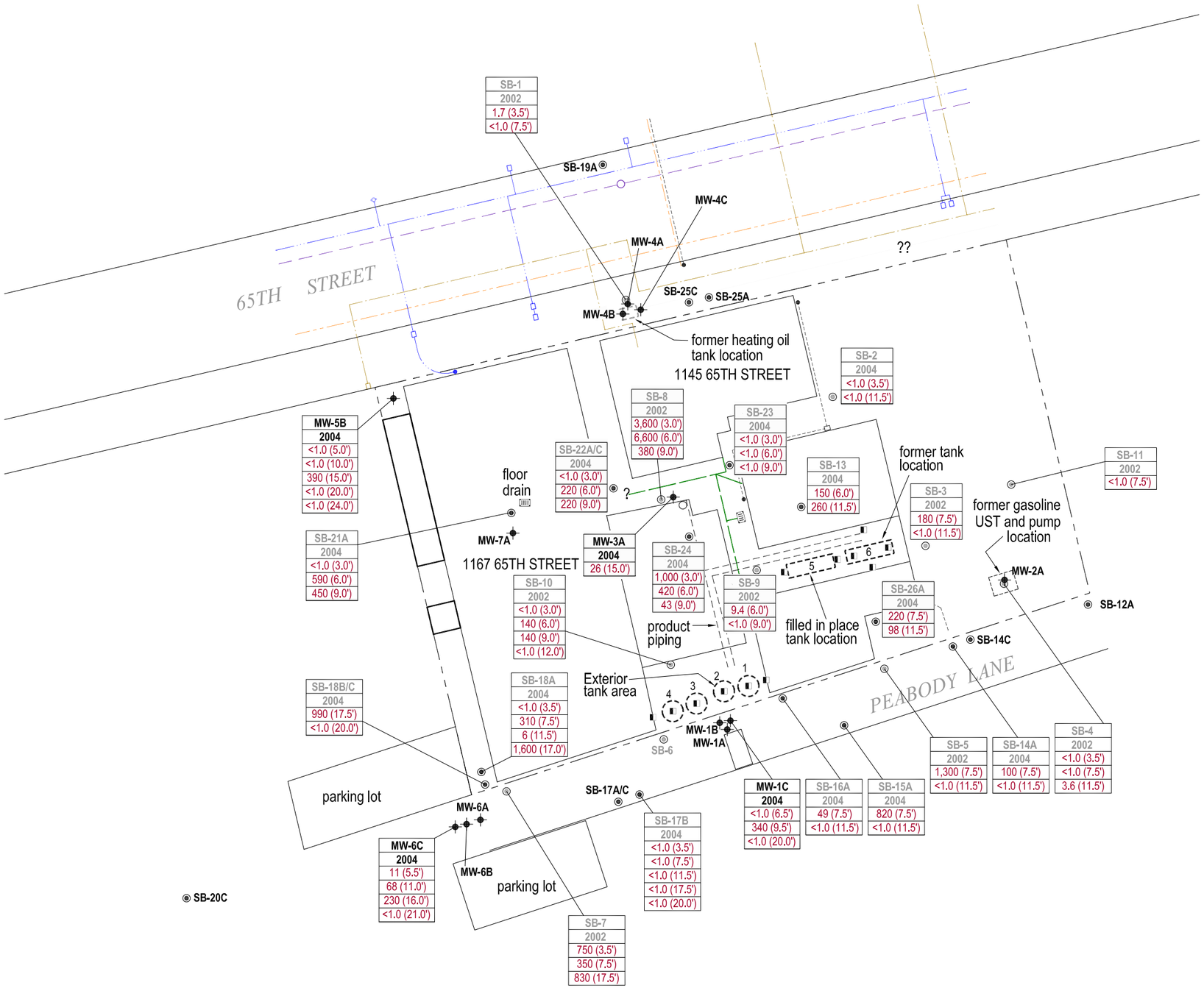
Figure 2

SITE MAP
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_EXT-SITEPLAN.DWG

10/17/07

TPHss Concentrations in Soil



EXPLANATION

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- Communications line

Well ID
Year
TPHss (depth)

Monitoring Well Designation
Sample year
TPHss concentration in soil in mg/kg and (depth of sample)

Boring ID
Year
TPHss (depth)

Soil Boring Designation
Sample year
TPHss concentration in soil in mg/kg and (depth of sample)

N

0 20 40 80

Scale (ft)

FIGURE

3

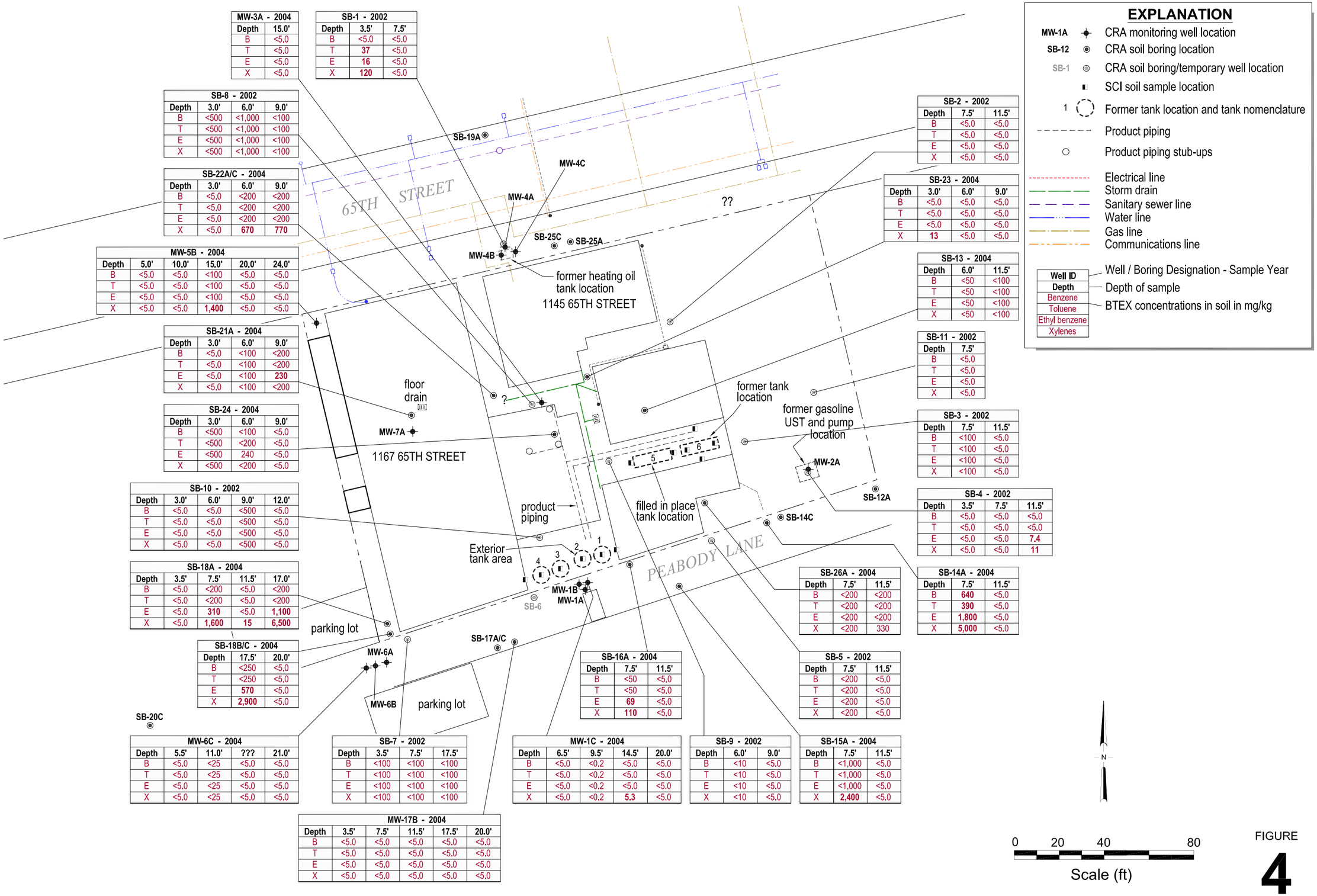
CONESTOGA-ROVERS & ASSOCIATES

1137 - 1167 65th Street
Oakland, California

H:\NADY\FIGURES\2007\TPHss-Soil.DWG

06/13/08

BTEX Concentrations in Soil



MW-3A - 2004

Depth	15.0'
B	<5.0
T	<5.0
E	<5.0
X	<5.0

SB-1 - 2002

Depth	3.5'	7.5'
B	<5.0	<5.0
T	**37**	<5.0
E	**16**	<5.0
X	**120**	<5.0

SB-8 - 2002

Depth	3.0'	6.0'	9.0'
B	<500	<1,000	<100
T	<500	<1,000	<100
E	<500	<1,000	<100
X	<500	<1,000	<100

SB-22A/C - 2004

Depth	3.0'	6.0'	9.0'
B	<5.0	<200	<200
T	<5.0	<200	<200
E	<5.0	<200	<200
X	<5.0	**670**	**770**

MW-5B - 2004

Depth	5.0'	10.0'	15.0'	20.0'	24.0'
B	<5.0	<5.0	<100	<5.0	<5.0
T	<5.0	<5.0	<100	<5.0	<5.0
E	<5.0	<5.0	<100	<5.0	<5.0
X	<5.0	<5.0	**1,400**	<5.0	<5.0

SB-21A - 2004

Depth	3.0'	6.0'	9.0'
B	<5.0	<100	<200
T	<5.0	<100	<200
E	<5.0	<100	**230**
X	<5.0	<100	<200

SB-24 - 2004

Depth	3.0'	6.0'	9.0'
B	<500	<100	<5.0
T	<500	<200	<5.0
E	<500	240	<5.0
X	<500	<200	<5.0

SB-10 - 2002

Depth	3.0'	6.0'	9.0'	12.0'
B	<5.0	<5.0	<500	<5.0
T	<5.0	<5.0	<500	<5.0
E	<5.0	<5.0	<500	<5.0
X	<5.0	<5.0	<500	<5.0

SB-18A - 2004

Depth	3.5'	7.5'	11.5'	17.0'
B	<5.0	<200	<5.0	<200
T	<5.0	<200	<5.0	<200
E	<5.0	**310**	<5.0	**1,100**
X	<5.0	**1,600**	**15**	**6,500**

SB-18B/C - 2004

Depth	17.5'	20.0'
B	<250	<5.0
T	<250	<5.0
E	**570**	<5.0
X	**2,900**	<5.0

MW-6C - 2004

Depth	5.5'	11.0'	???	21.0'
B	<5.0	<25	<5.0	<5.0
T	<5.0	<25	<5.0	<5.0
E	<5.0	<25	<5.0	<5.0
X	<5.0	<25	<5.0	<5.0

SB-7 - 2002

Depth	3.5'	7.5'	17.5'
B	<100	<100	<100
T	<100	<100	<100
E	<100	<100	<100
X	<100	<100	<100

MW-17B - 2004

Depth	3.5'	7.5'	11.5'	17.5'	20.0'
B	<5.0	<5.0	<5.0	<5.0	<5.0
T	<5.0	<5.0	<5.0	<5.0	<5.0
E	<5.0	<5.0	<5.0	<5.0	<5.0
X	<5.0	<5.0	<5.0	<5.0	<5.0

SB-16A - 2004

Depth	7.5'	11.5'
B	<50	<5.0
T	<50	<5.0
E	**69**	<5.0
X	**110**	<5.0

MW-1C - 2004

Depth	6.5'	9.5'	14.5'	20.0'
B	<5.0	<0.2	<5.0	<5.0
T	<5.0	<0.2	<5.0	<5.0
E	<5.0	<0.2	<5.0	<5.0
X	<5.0	<0.2	**5.3**	<5.0

SB-9 - 2002

Depth	6.0'	9.0'
B	<10	<5.0
T	<10	<5.0
E	<10	<5.0
X	<10	<5.0

SB-2 - 2002

Depth	7.5'	11.5'
B	<5.0	<5.0
T	<5.0	<5.0
E	<5.0	<5.0
X	<5.0	<5.0

SB-23 - 2004

Depth	3.0'	6.0'	9.0'
B	<5.0	<5.0	<5.0
T	<5.0	<5.0	<5.0
E	<5.0	<5.0	<5.0
X	**13**	<5.0	<5.0

SB-13 - 2004

Depth	6.0'	11.5'
B	<50	<100
T	<50	<100
E	<50	<100
X	<50	<100

SB-11 - 2002

Depth	7.5'
B	<5.0
T	<5.0
E	<5.0
X	<5.0

SB-3 - 2002

Depth	7.5'	11.5'
B	<100	<5.0
T	<100	<5.0
E	<100	<5.0
X	<100	<5.0

SB-4 - 2002

Depth	3.5'	7.5'	11.5'
B	<5.0	<5.0	<5.0
T	<5.0	<5.0	<5.0
E	<5.0	<5.0	**7.4**
X	<5.0	<5.0	**11**

SB-26A - 2004

Depth	7.5'	11.5'
B	<200	<200
T	<200	<200
E	<200	<200
X	<200	330

SB-14A - 2004

Depth	7.5'	11.5'
B	**640**	<5.0
T	**390**	<5.0
E	**1,800**	<5.0
X	**5,000**	<5.0

SB-5 - 2002

Depth	7.5'	11.5'
B	<200	<5.0
T	<200	<5.0
E	<200	<5.0
X	<200	<5.0

SB-15A - 2004

Depth	7.5'	11.5'
B	<1,000	<5.0
T	<1,000	<5.0
E	<1,000	<5.0
X	**2,400**	<5.0

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- Product piping stub-ups
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- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line

Well ID
Depth
Benzene
Toluene
Ethyl benzene
Xylenes

- Well / Boring Designation - Sample Year
- Depth of sample
- BTEX concentrations in soil in mg/kg

N

0 20 40 80

Scale (ft)

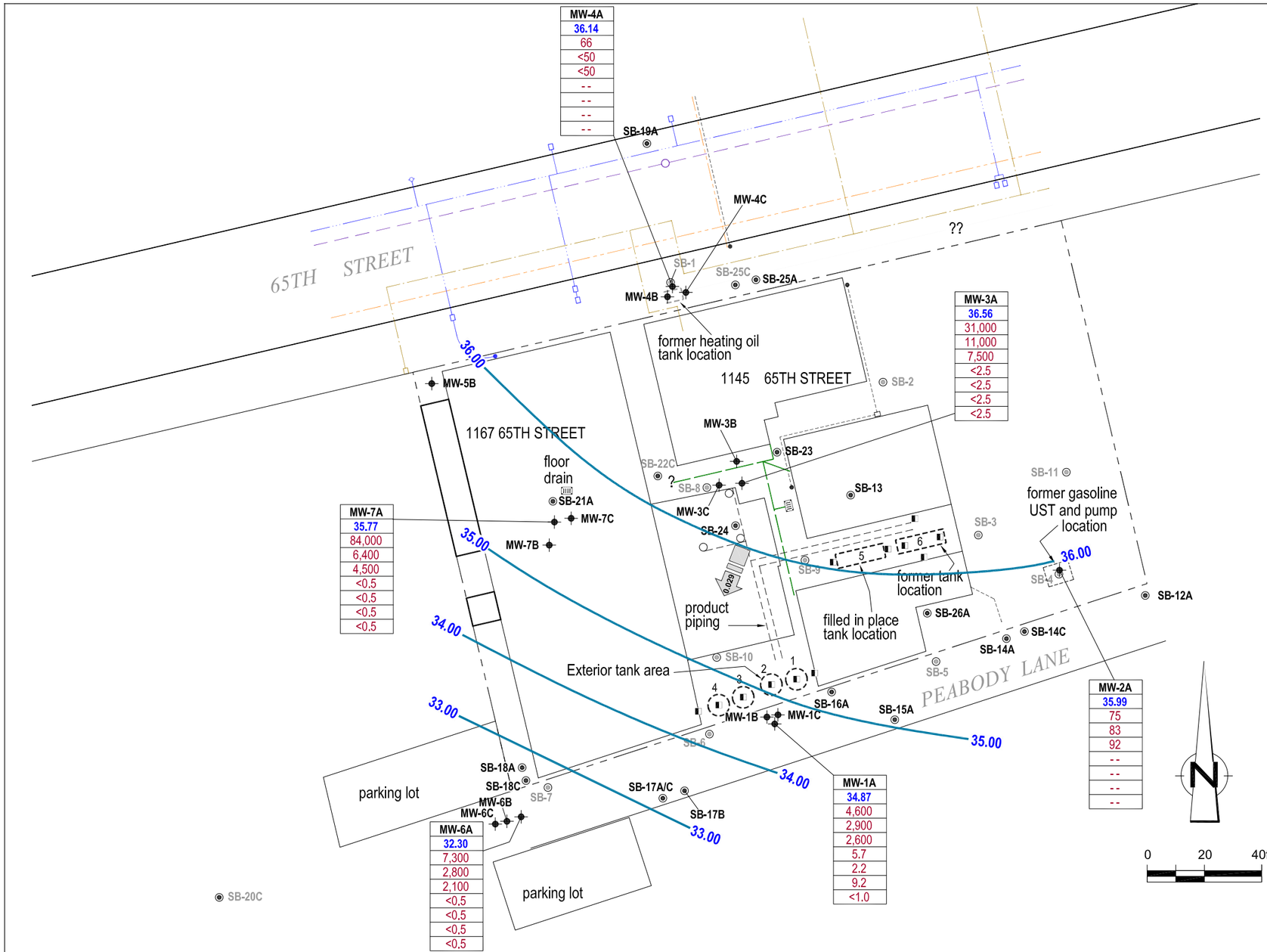
FIGURE

4

CONESTOGA-ROVERS & ASSOCIATES

1137 - 1167 65th Street
Oakland, California

H:\NAD\YFIGURES\2007\BTEX-Soil.DWG



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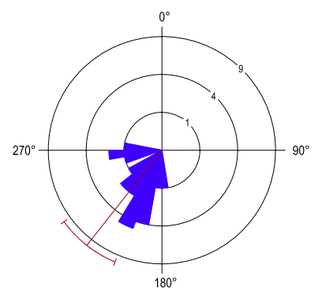
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 33.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.029 — Groundwater flow direction and gradient
- -- Not analyzed

Well ID	Monitoring Well Designation
ELEV.	Groundwater elevation in feet above mean sea level (MSL)
TPHd	Concentrations in groundwater in micrograms per liter
TPHss	
TPHg	
PCE	
TCE	
cis-1,2-DCE	
Vinyl Chloride	



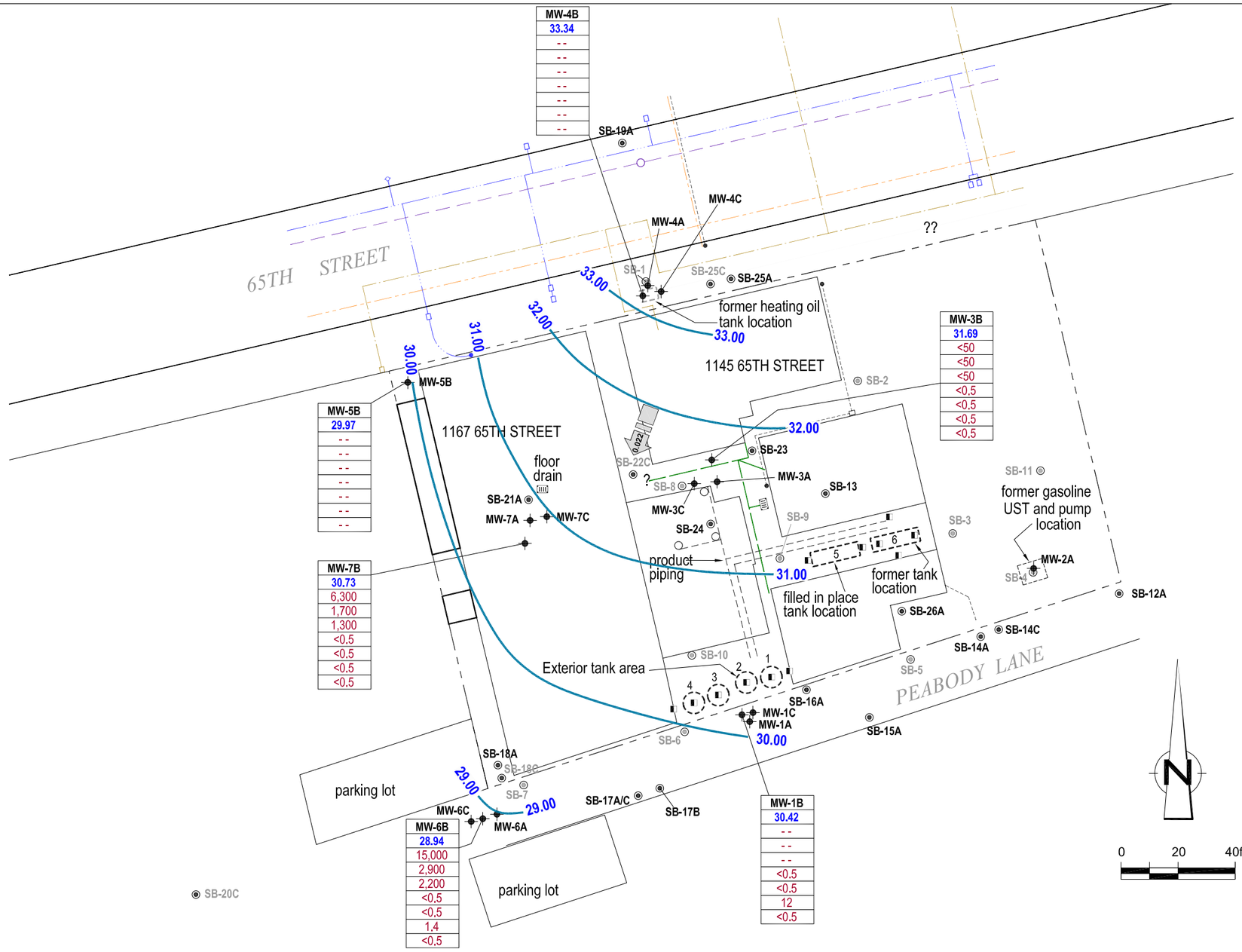
Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 5

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - A ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000_EM001-3Q09-A.DWG



EXPLANATION

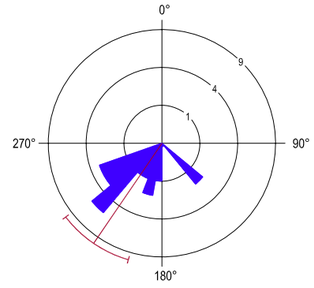
- MW-1A — CRA monitoring well location
- SB-12 — CRA soil boring location
- SB-1 — CRA soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 32.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.022 — Groundwater flow direction and gradient
- -- Not analyzed

Well ID
ELEV.
TPHd
TPHss
TPHg
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Monitoring Well Designation

Groundwater elevation in feet above mean sea level (MSL)

Concentrations in groundwater in micrograms per liter



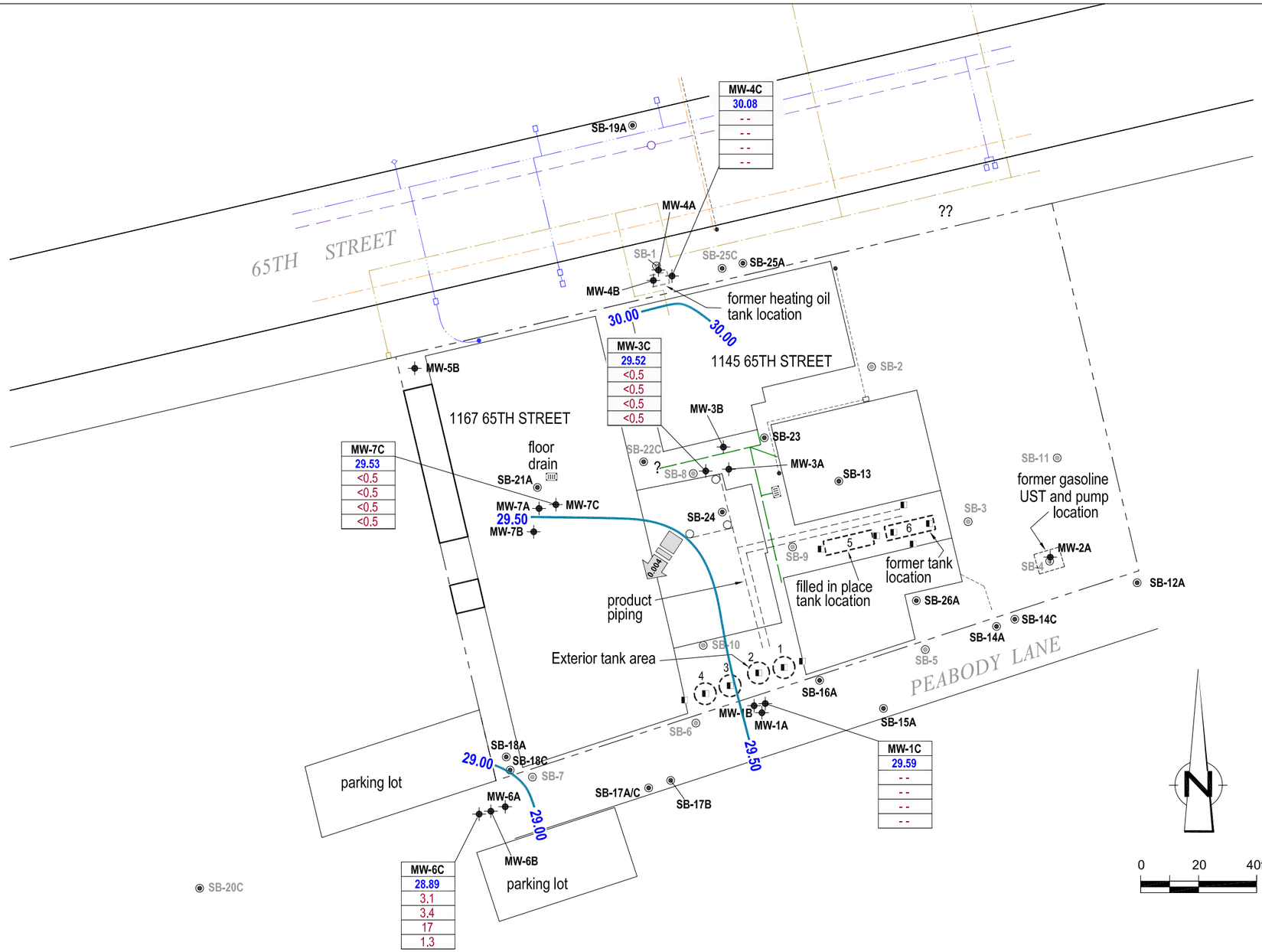
Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 6

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - B ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000_EM001-3Q09-B.DWG

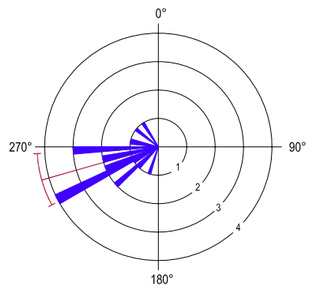


EXPLANATION

- MW-1A — CRA monitoring well location
- SB-12 — CRA soil boring location
- SB-1 — CRA soil boring/temporary well location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line
- 32.00 — Groundwater elevation contour line in feet above mean sea level (MSL)
- 0.004 — Groundwater flow direction and gradient
- - - Not analyzed

Well ID
ELEV.
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Monitoring Well Designation
Groundwater elevation in feet above mean sea level (MSL)
Concentrations in groundwater in micrograms per liter



Groundwater Flow Direction
2Q-04 through 3Q-09

Figure 7

GROUNDWATER FLOW AND CHEMICAL CONCENTRATIONS - C ZONE

1137 - 1167 65th STREET
Oakland, California
September 21, 22, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000_EM001-3Q09-C.DWG

10/27/09

Geologic Cross Section A - A'

A — North — South — A'

MW-4C 39.00'
MW-3C 41.35'
MW-1C 39.91'
SB-27

Elevation (in feet above MSL)

45 40 35 30 25 20 15 10 5 MSL -5

Depth Below Ground Surface (feet)

0 5 10 15 20 25 30 35 40 45

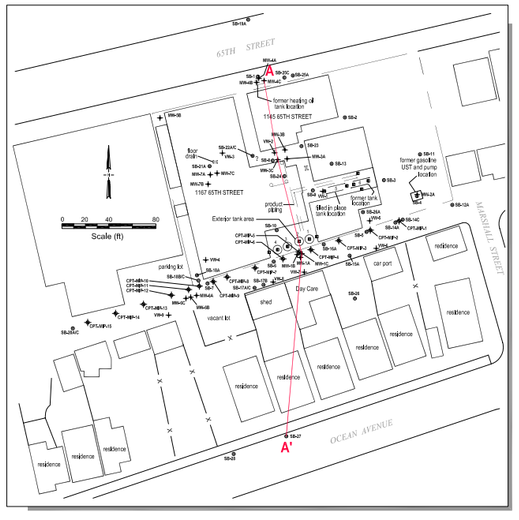
MW-4C: conc, SW, SM, ML, SM, ML, SM, ML

MW-3C: conc, CL, ML, CL, ML, CL, SM, ML

MW-1C: asph, ML, SM, CL, SC, SM, ML, SM, ML, SM

75'

SB-27: CL, SM, CL, SC



EXPLANATION

= Low Permeability Soils (> 70% Fines)

= Moderate Permeability Soils (Fines between 70% and 30%)

= High Permeability Soils (< 30% Fines)

Approximate sample location

TPHg, TPHd, TPHmo, TPHss — Hydrocarbon concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation

Temporary Monitoring Well

Temporary Well Screen Interval

Bottom of boring

Depth of Groundwater - 11/26/2002

TPHg, TPHd, TPHmo, TPHss — Hydrocarbon concentrations in Groundwater, in parts per billion

6,100
120,000
<25,000
5,800

10 — Scale (ft) — 0 20

FIGURE **8**

CONESTOGA-ROVERS & ASSOCIATES

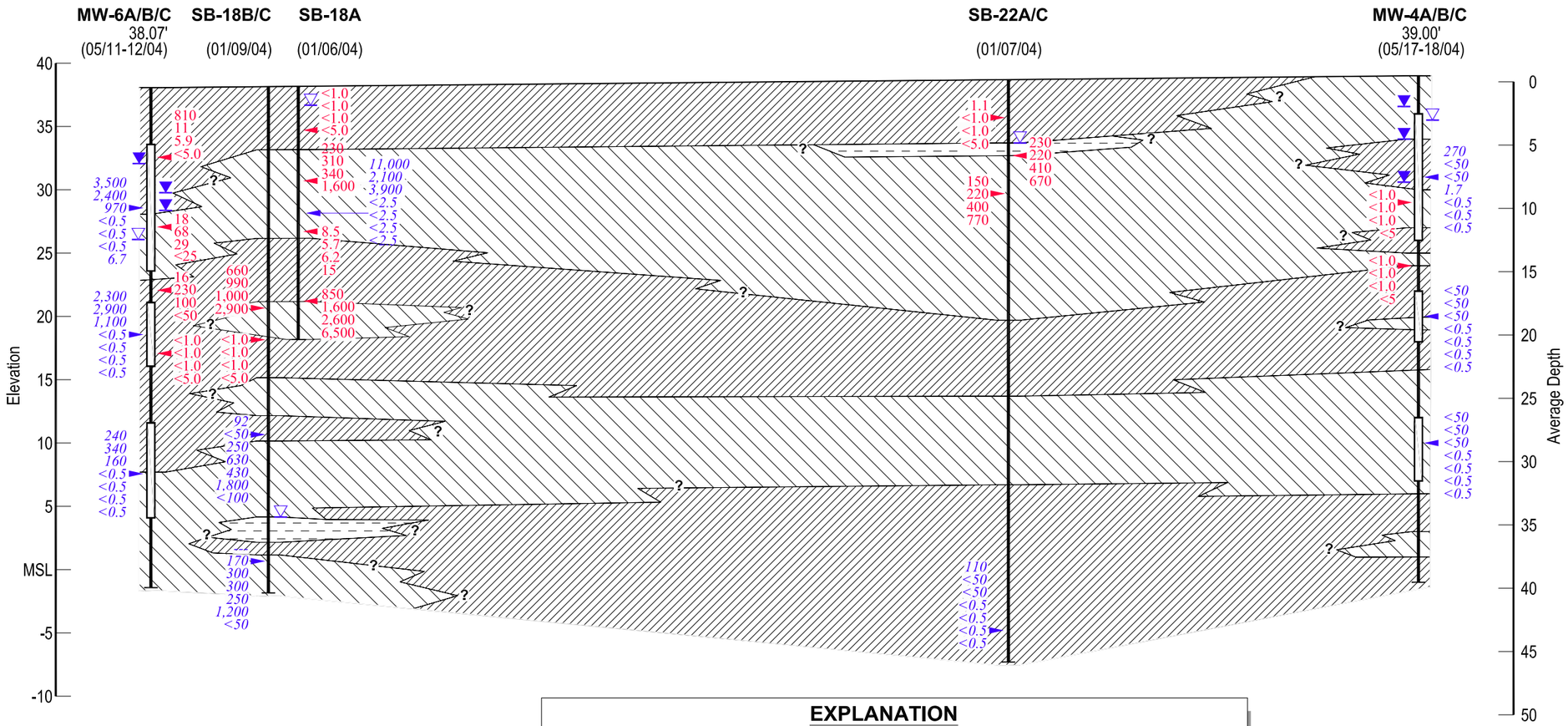
1137 - 1167 65th Street
Oakland, California

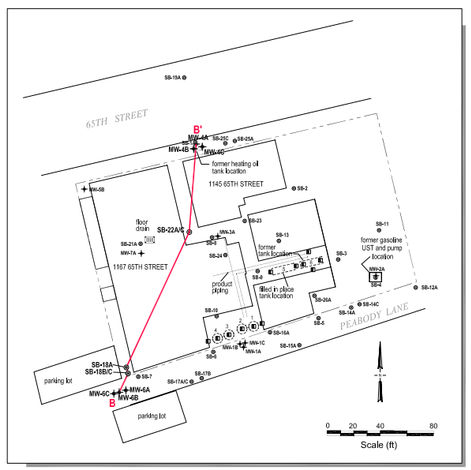
H:\SB-2004\UST\FUND\NAD\YFIGURES\X-SECT-A-A' NEW.DWG

07/20/04

Geologic Cross Section B-B'

B — Southwest — B' Northeast





EXPLANATION

= Low Permeability Soils
Clay, Silty Clay, Clayey Silt, Silt, Sandy Clay

= Moderate Permeability Soils
Silty Sand, Clayey Sand, Sandy Silt

= High Permeability Soils
Sand, Gravelly Sand

= Fill (Tank Pit)

Approximate soil sample location

Approximate groundwater sample location

TPHd
TPHss
TPHg
Xylenes
Concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation
(date) — Drilling Date

Groundwater Monitoring Well

Well Screen Interval

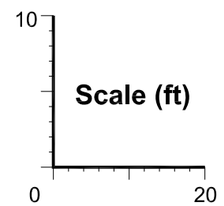
Bottom of boring

Potentiometric Surfaces 06/03/04

Initial Groundwater level

Depth of Groundwater - 06/03/2004

TPHd
TPHss
TPHg
PCE
TCE
cis-1,2-DCE
Vinyl Chloride
Concentrations in groundwater, in parts per billion



Note: Groundwater sampled from wells on 06/03/04 and from soil borings on date drilled.

FIGURE
9

CONESTOGA-ROVERS & ASSOCIATES

1137 - 1167 65th Street
Oakland, California

I:\NAD\YFIGURES\X-SECT B-B'.DWG

06/25/08

Geologic Cross Section C-C'

C — Northwest — C' Southeast

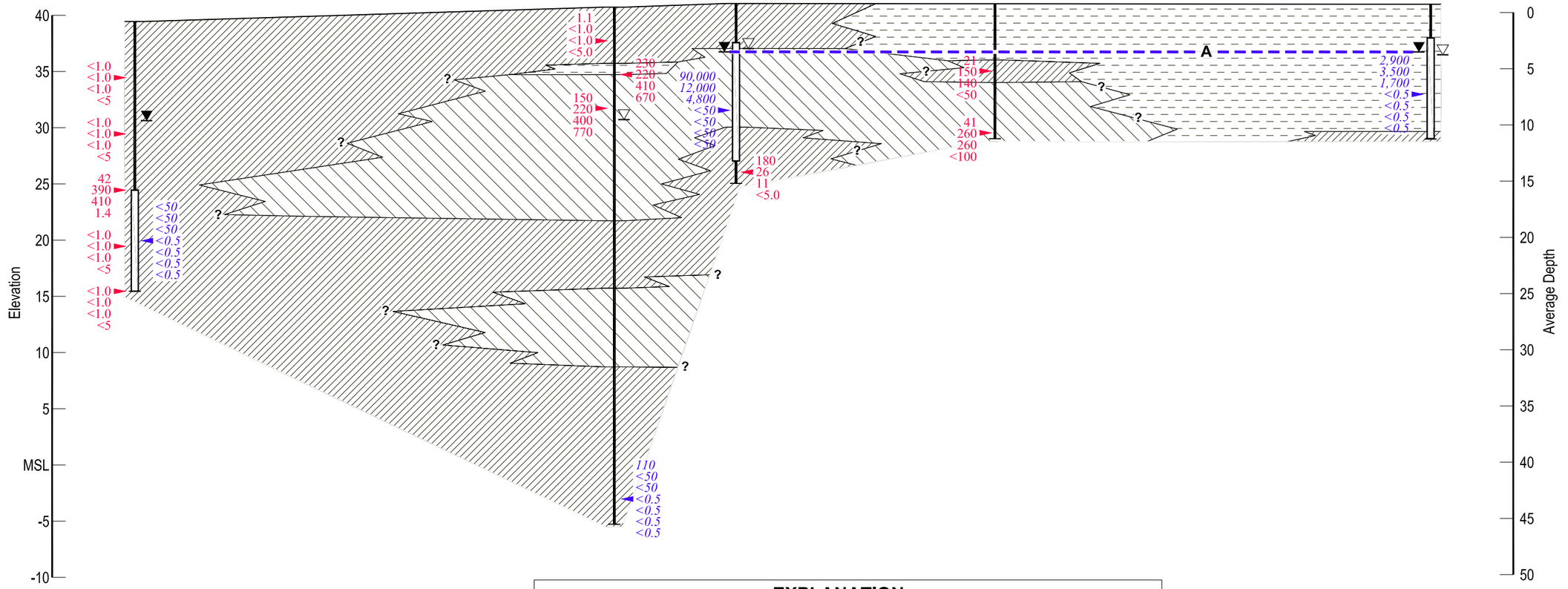
MW-5B
39.45'
(05/18/04)

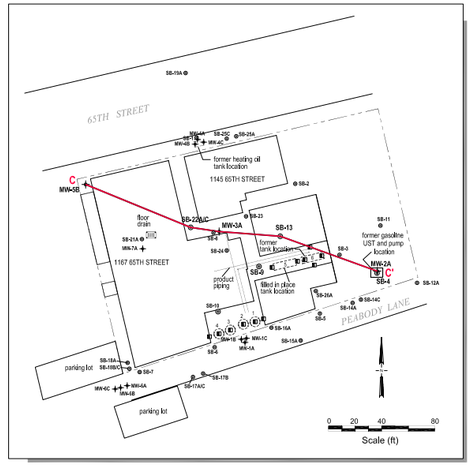
SB-22A/C
(01/07/04)

MW-3A
41.05'
(05/07/04)

SB-13
(01/05/04)

MW-2A
40.99'
(05/11/04)





EXPLANATION

= Low Permeability Soils
Clay, Silty Clay, Clayey Silt, Silt, Sandy Clay

= Moderate Permeability Soils
Silty Sand, Clayey Sand, Sandy Silt

= High Permeability Soils
Sand, Gravelly Sand

= Fill (Tank Pit)

Approximate soil sample location

Approximate groundwater sample location

TPHd
TPHss
TPHg
Xylenes
Concentrations in Soil, in parts per million

Well ID — Well Designation
Elev. — Top of Casing Elevation
(date) — Drilling Date
Groundwater Monitoring Well
Well Screen Interval
Bottom of boring
A- - - - Potentiometric Surface - 06/03/2004
Initial Groundwater level
Depth of Groundwater - 06/03/2004

TPHd
TPHss
TPHg
PCE
TCE
cis-1,2-DCE
Vinyl Chloride
Concentrations in groundwater, in parts per billion

10
Scale (ft)
0 20

Note: Groundwater sampled from wells on 06/03/04 and from soil borings on date drilled.

FIGURE
10

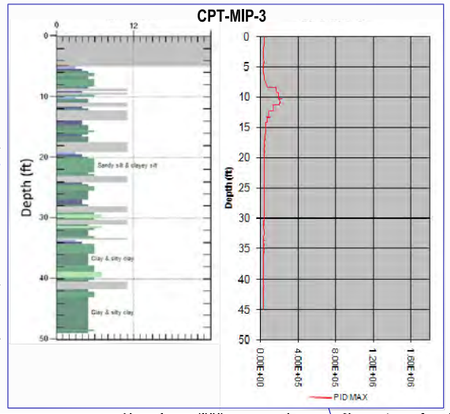
1137 - 1167 65th Street
Oakland, California

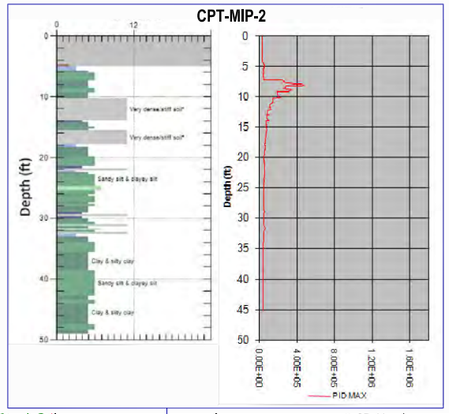
CONESTOGA-ROVERS & ASSOCIATES

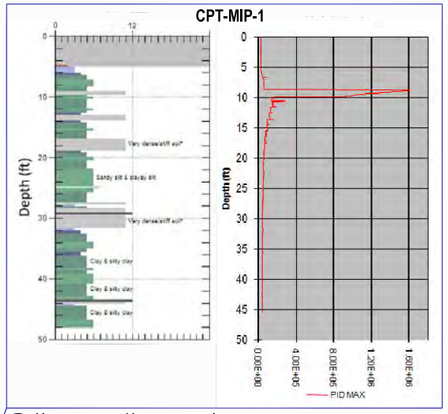
H:\NADY\FIGURES\X-SECT C-C'.DWG

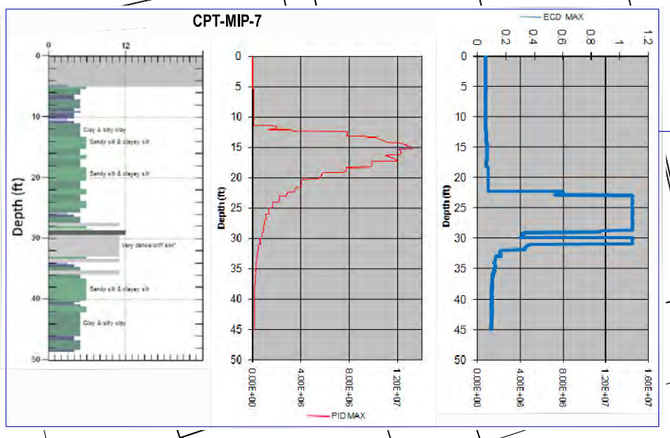
EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line

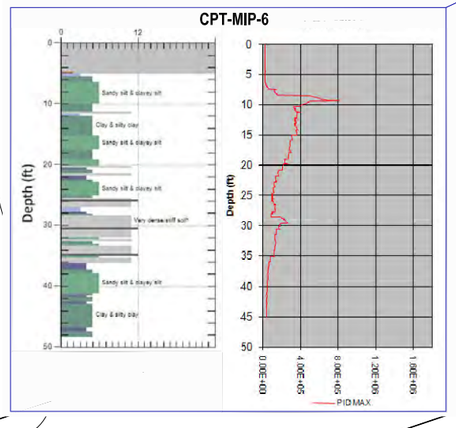


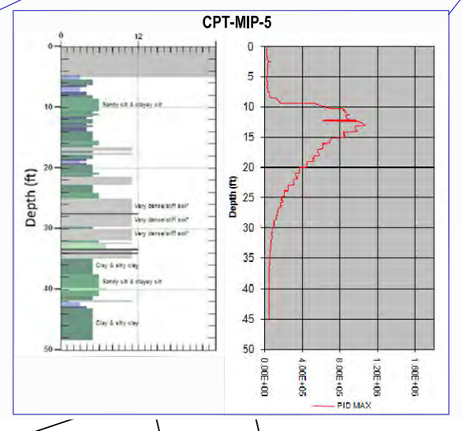


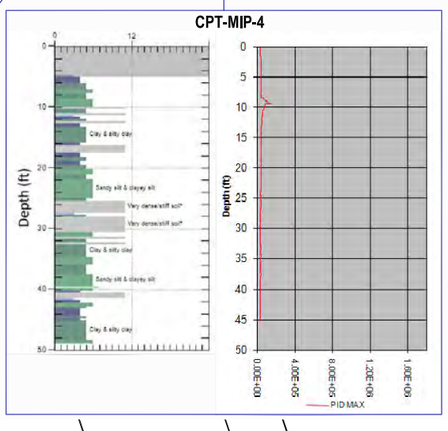




drain
VW-3
SB-21A
MW-7A
MW-7C
MW-7B
1167 65TH STREET
SB-8
MW-3A
SB-13
MW-3C
SB-24
SB-11
former gasoline UST and pump location
SB-3
SB-9
VW-1
former tank location
filled in place tank location
MW-2A
SB-4
SB-12A
product piping
Exterior tank area
SB-10
SB-26A
VW-5
SB-14C
SB-14A
CPT-MIP-1
CPT-MIP-5
CPT-MIP-6
SB-5
CPT-MIP-2
VW-6
SB-16A
CPT-MIP-3
CPT-MIP-4
SB-15A
car port
redidence
VW-4
parking lot
SB-18A
SB-18B/C
SB-6
MW-1A
MW-1B
MW-1C
VW-7
CPT-MIP-7
CPT-MIP-10
CPT-MIP-11
CPT-MIP-12
SB-7
CPT-MIP-8
SB-17B
VW-8
SB-17A/C
MW-6A
CPT-MIP-9
Day Care
shed
SB-26
MW-6C
MW-6B
CPT-MIP-13
VW-9
CPT-MIP-14
vacant lot
CPT-MIP-15
SB-20A/C
residence
MARSHALL STREET
PEABODY LANE







N

0 20 50ft

Figure 11

CPT AND MIP RESULTS
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_CPT-MIP RESULTS.DWG

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- Electrical line
- Storm drain
- Sanitary sewer line
- Water line
- Gas line
- Communications line

N

0 20 50ft

CPT-MIP-11

CPT-MIP-10

CPT-MIP-9

CPT-MIP-8

MW-3A
SB-13
SB-24
MW-7A
MW-7B
1167 65TH STREET
SB-11
former gasoline UST and pump location
SB-3
MW-2A
SB-4
SB-12A
SB-9
VW-1
filled in place tank location
former tank location
product piping
Exterior tank area
SB-10
SB-26A
VW-5
SB-14C
SB-14A
CPT-MIP-1
CPT-MIP-5
CPT-MIP-6
SB-5
CPT-MIP-2
VW-6
SB-16A
CPT-MIP-3
CPT-MIP-4
SB-15A
MW-1A
MW-1B
MW-1C
VW-7
VW-4
parking lot
SB-18A
SB-18B/C
SB-6
CPT-MIP-7
CPT-MIP-10
CPT-MIP-11
CPT-MIP-12
SB-7
CPT-MIP-8
SB-17B
VW-8
SB-17A/C
MW-6A
CPT-MIP-9
MW-6C
MW-6B
CPT-MIP-13
CPT-MIP-14
VW-9
vacant lot
CPT-MIP-15
SB-20A/C
Day Care
shed
SB-26
car port
redidence
residence
residence
residence
residence
residence
residence
residence
MARSH
PEABODY LANE

CPT-MIP-12

CPT-MIP-15

CPT-MIP-14

CPT-MIP-13

Figure 12

CPT AND MIP RESULTS
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_CPT-MIP RESULTS2.DWG

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups

Well ID
Depth
TPHd
TPHss
TPHg
Benzene
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Well / Boring designation and date
Depth of samples

Concentrations in groundwater are measured in micrograms per liter (µg/L)

* Non-typical chromatogram pattern, refer to analytical report for additional information

N

0 20 50ft

65TH STREET

PEABODY LANE

VALLEJO STREET

OCEAN AVENUE

MARSHALL STREET

SB-19A, MW-4A, SB-1, SB-25C, SB-25A, MW-4B, MW-4C, former heating oil tank location, 1145 65TH STREET, SB-2, MW-5B, MW-3B, VW-2, SB-23, floor drain, SB-22A/C, VW-3, MW-3A, SB-13, SB-21A, SB-8, MW-3C, MW-7A, MW-7C, SB-24, MW-7B, 1167 65TH STREET, SB-11, former gasoline UST and pump location, SB-3, SB-9, VW-1, 5, 6, former tank location, filled in place tank location, MW-2A, SB-4, SB-12A, product piping, Exterior tank area, SB-10, SB-26A, VW-5, SB-14C, SB-14A, CPT-MIP-1, CPT-MIP-5, CPT-MIP-6, 1, 2, 3, 4, SB-5, CPT-MIP-2, VW-6, SB-16A, CPT-MIP-3, CPT-MIP-4, MW-1B, MW-1A, MW-1C, SB-15A, VW-4, parking lot, SB-18A, CPT-MIP-7, SB-6, VW-7, CPT-MIP-11, SB-18B/C, CPT-MIP-10, CPT-MIP-8, SB-17B, VW-8, SB-7, SB-17A/C, CPT-MIP-12, MW-6A, CPT-MIP-9, Day Care, shed, SB-26, MW-6C, MW-6B, CPT-MIP-13, CPT-MIP-14, VW-9, vacant lot, CPT-MIP-15, SB-20A/C, car port, redidence, residence, residence, residence, residence, residence, residence, residence, residence, residence, residence, shed, SB-27, SB-28

CPT-11	08/18/09
Depth	55' - 60'
TPHd	<50
TPHss	<50
TPHg	<50
Benzene	<0.50
PCE	<0.50
TCE	<0.50
cis-1,2-DCE	<0.50
Vinyl Chloride	<0.50

SB-26	08/17/09		
Depth	12'	24'	40'
TPHd	---	<50	<50
TPHss	**75**	<50	<50
TPHg	**65**	<50	<50
Benzene	<0.50	<0.50	<0.50
PCE	<0.50	<0.50	<0.50
TCE	<0.50	<0.50	<0.50
cis-1,2-DCE	<0.50	<0.50	<0.50
Vinyl Chloride	<0.50	<0.50	<0.50

SB-28	08/17/09	
Depth	24'	35'
TPHd	<50	<50
TPHss	**760**	<50
TPHg	**530***	<50
Benzene	<0.50	<0.50
PCE	<0.50	<0.50
TCE	**5.0**	<0.50
cis-1,2-DCE	**0.56**	<0.50
Vinyl Chloride	<0.50	<0.50

SB-27	08/12/09	
Depth	24'	40'
TPHd	<50	**57***
TPHss	<50	<50
TPHg	<50	<50
Benzene	<0.50	<0.50
PCE	<0.50	<0.50
TCE	**7.5**	<0.50
cis-1,2-DCE	<0.50	<0.50
Vinyl Chloride	<0.50	<0.50

Figure 13

GRAB GROUNDWATER SAMPLING RESULTS
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_GRAB-GW_SAMPLES.DWG

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups

Well ID
Date
TPHss
TPHg
Benzene
PCE
TCE
cis-1,2-DCE
Vinyl Chloride

Vapor probe designation

Analyte concentrations are in micrograms per cubic meter ($\mu g/m^3$)

* Refer to analytical data for laboratory note

VW-3	
09/17/09	12/09/09
1,100,000*	---
12,000,000	6,500,000
<3,800	<81
<8,100	<170
<6,400	<140
<4,700	<100
<3,000	<65

VW-2	
09/17/09	12/09/09
650,000	---
460,000	---
<50	---
620	---
<84	---
<62	---
<40	---

VW-1	
09/17/09	12/09/09
730,000*	1,900,000*
14,000,000	6,500,000
<3,800	<460
<8,100	<970
<6,400	<770
<4,700	<570
<3,000	<360

VW-5	
09/17/09	12/09/09
1,100,000*	1,200,000*
12,000,000	7,400,000
<1,300	<350
<2,800	<750
<2,200	<590
<1,600	<440
<1,000	<280

VW-4	
09/17/09	12/09/09
11,000	---
33,000	1,100
<3.9	<3.6
170	100
<6.5	<6.0
<4.8	<4.4
<3.1	<2.9

VW-8	
09/17/09	12/09/09
21,000	---
100,000	38,000
<38	<7.4
<81	<16
<64	<12
64	46
1,600	1,300

VW-7	
09/17/09	12/09/09
<3,300	---
940	1,800
<4.0	<3.6
13	<7.6
<6.8	<6.0
<5.0	<4.4
<3.2	<2.9

VW-6	
09/17/09	12/09/09
9,300	---
51,000	---
<4.0	---
<8.6	---
<6.8	---
<5.0	---
<3.2	---

VW-9	
09/17/09	12/09/09
73,000	---
520,000	---
<36	---
<76	---
<60	---
<44	---
<29	---

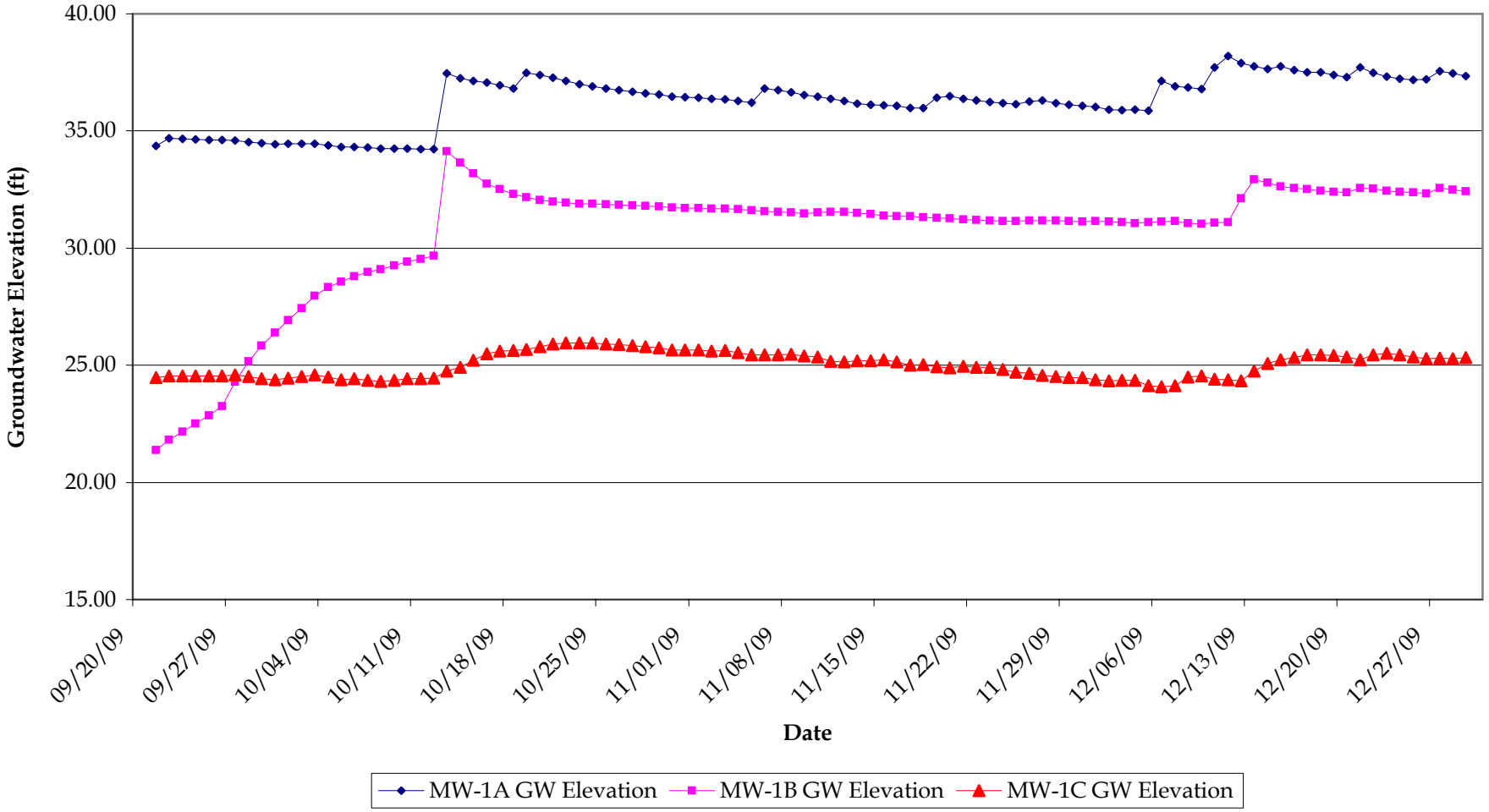
65TH STREET
PEABODY LANE
VALLEJO STREET
OCEAN AVENUE
MARSHALL STREET
1145 65TH STREET
1167 65TH STREET
former heating oil tank location
former gasoline UST and pump location
former tank location
filled in place tank location
floor drain
product piping
Exterior tank area
parking lot
Day Care
vacant lot
car port
residence
residences
shed
SB-19A
SB-20A/C
SB-27
SB-28
0 20 50ft

Figure 14

SOIL VAPOR SAMPLING RESULTS
1137 - 1167 65th STREET
Oakland, California
September 17 and December 9, 2009

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_SV-Samples_2.DWG

Figure 15
TIME-SERIES GROUNDWATER ELEVATIONS IN WELLS: MW-1A, MW-1B, AND MW-1C
JOHN NADY
1137-1167 65TH STREET OAKLAND, CA



EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- 100 — TPHss / TPHg concentration contour line, dashed where inferred
- 6,400 — TPHss / TPHg concentration in groundwater in micrograms per liter (µg/L)
- NA — Not Available

Note: Samples collected from November 2002, to August 2009

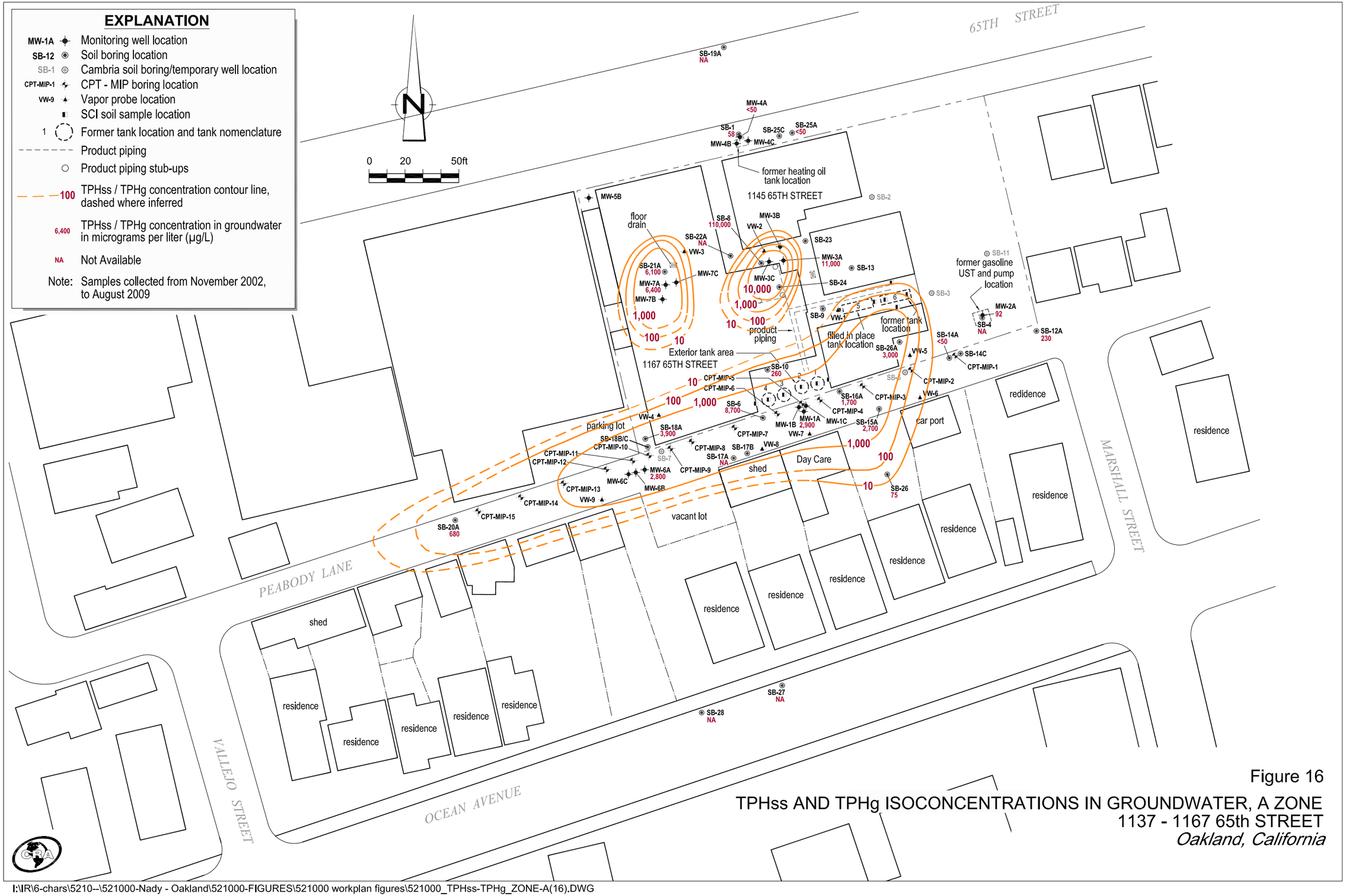


Figure 16

TPHss AND TPHg ISOCONCENTRATIONS IN GROUNDWATER, A ZONE
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_TPHss-TPHg_ZONE-A(16).DWG

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- 100 — TPHss / TPHg concentration contour line, dashed where inferred
- 1,700 — TPHss / TPHg concentration in groundwater in micrograms per liter (µg/L)
- NA — Not Available

Note: Samples collected from November 2002, to August 2009

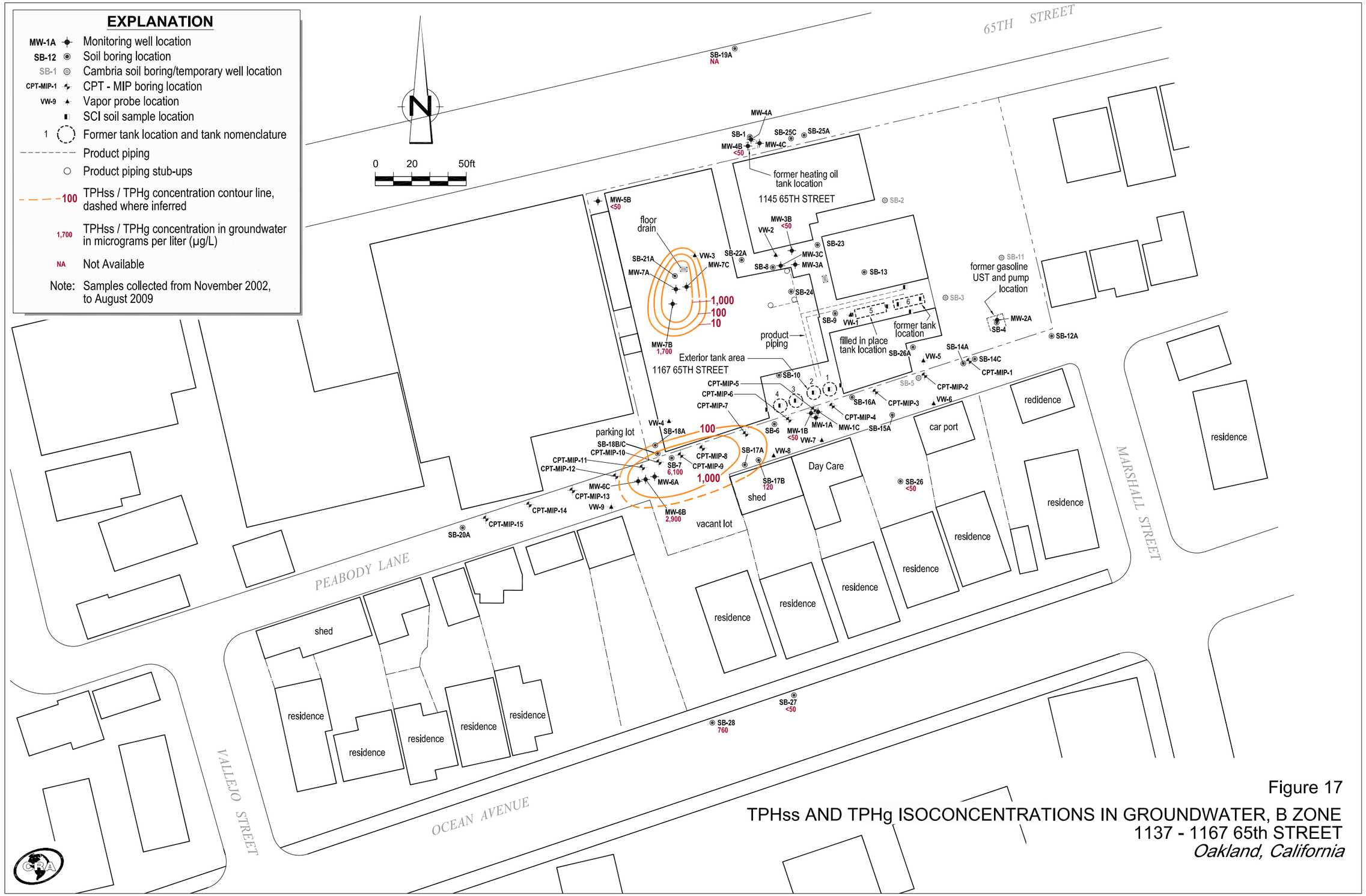


Figure 17

TPHss AND TPHg ISOCONCENTRATIONS IN GROUNDWATER, B ZONE
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_TPHss-TPHg_ZONE-B(17).DWG

EXPLANATION

- MW-1A — Monitoring well location
- SB-12 — Soil boring location
- SB-1 — Cambria soil boring/temporary well location
- CPT-MIP-1 — CPT - MIP boring location
- VW-9 — Vapor probe location
- SCI soil sample location
- 1 — Former tank location and tank nomenclature
- Product piping
- Product piping stub-ups
- 100 — TPHss / TPHg concentration contour line, dashed where inferred
- 1,700 — TPHss / TPHg concentration in soil in micrograms per liter (µg/L)
- NA — Not Available

Note: Samples collected from November 2002, to August 2009

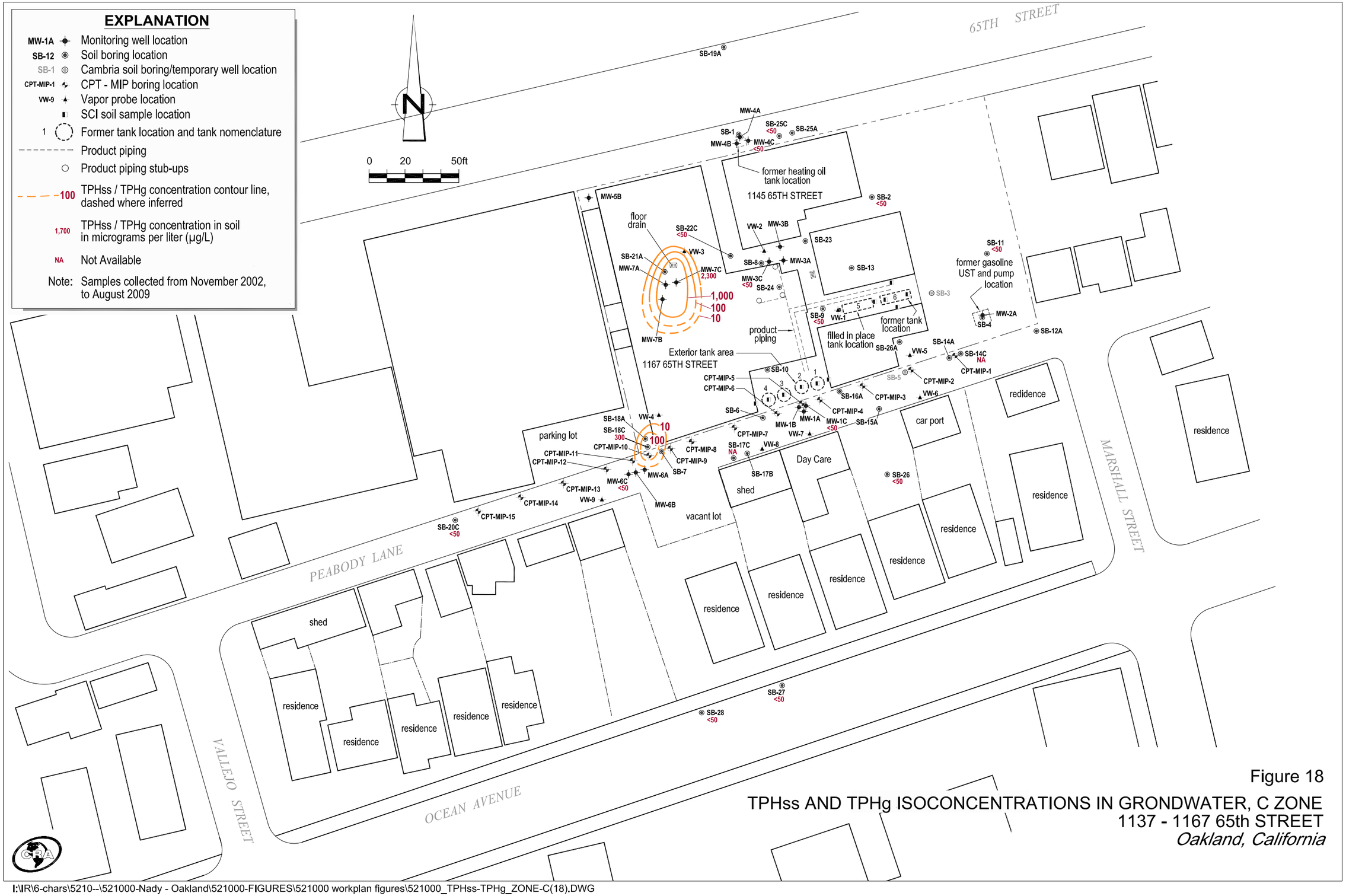


Figure 18

TPHss AND TPHg ISOCONCENTRATIONS IN GRONDWATER, C ZONE
1137 - 1167 65th STREET
Oakland, California

I:\IR\6-chars\5210--\521000-Nady - Oakland\521000-FIGURES\521000 workplan figures\521000_TPHss-TPHg_ZONE-C(18).DWG

TABLES

TABLE 1

WELL CONSTRUCTION DETAILS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID	*Date Installed*	*Borehole Depth (ft)*	*Borehole Diameter (inches)*	*Casing Diameter (in)*	*Screen Interval (ft bgs)*	*Screen Size (in)*	*Filter Pack (ft bgs)*	*Bentonite Seal (ft bgs)*	*Cement Seal (ft bgs)*	*TOC Elevation (ft msl)*	*First Water (ft bgs)*
A-Zone Monitoring Wells											
MW-1A	5/10/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	2.5 - 3.5	0 - 2.5	39.64	7.0
MW-2A	5/11/2004	12.0	10	4	3.0 - 12.0	0.020	2.5 - 3.0	1.0 - 2.5	0 - 1.0	40.72	4.5
MW-3A	5/7/2004	16.0	8	2	3.5 - 14.0	0.010	3.0 - 3.5	2.0 - 3.0	0 - 2.0	40.88	4.0
MW-4A	5/18/2004	16.0	8	2	3.0 - 13.0	0.010	2.5 - 13.0	1.5 - 2.5	0 - 1.5	38.71	NA
MW-6A	5/11/2004	14.5	8	2	4.5 - 14.5	0.010	3.5 - 14.5	1.5 - 3.5	0 - 1.5	37.98	12.0
MW-7A	5/7/2004	10.0	6.5	1	5.0 - 10.0	0.010	4.0 - 10.0	3.0 - 4.0	0 - 3.0	40.58	6.0
B-Zone Monitoring Wells											
MW-1B	5/12/2004	20.0	8	2	16.5 - 20.0	0.010	15.5 - 20.0	13.0 - 15.5	0 - 13.0	39.50	7.0
MW-3B	8/17/2009	24.0	5	1	17.0 - 24.0	0.010	15.0 - 24.0	13.0 - 15.0	0 - 13.0	40.62	NA
MW-4B	5/18/2004	24.0	8	2	17.0 - 21.0	0.010	16.0 - 21.0	12.0 - 14.0 21.0 - 24.0	0 - 12.0	38.54	3.5
MW-5B	5/18/2004	24.0	8	2	15.0 - 24.0	0.010	14.0 - 24.0	12.0 - 14.0	0 - 12.0	38.98	NA
MW-6B	5/12/2004	24.5	8	2	17.0 - 22.0	0.010	16.0 - 22.0	14.0 - 16.0 22.0 - 24.5	0 - 14.0	37.66	15.5
MW-7B	8/14/2009	24.0	5	1	17.0 - 24.0	0.010	16.0 - 24.0	14.0 - 16.0	0 - 14.0	40.05	12.0
C-Zone Monitoring Wells											
MW-1C	5/10/2004	40.0	8	2	25.0 - 34.0	0.010	24.0 - 34.0	22.0 - 24.0 34.0 - 40.0	0 - 22.0	39.49	7.0
MW-3C	8/13/2009	40.0	5	1	27.0 - 38.0	0.010	26.0 - 38.0	24.0 - 26.0 38.0 - 40.0	0 - 24.0	41.00	12.0
MW-4C	5/17/2004	40.0	8	2	27.0 - 32.0	0.010	26.0 - 27.0	24.0 - 26.0 32.0 - 40.0	0 - 24.0	38.50	12.0
MW-6C	5/11/2004	39.5	8	2	26.5 - 34.0	0.010	25.5 - 34.0	23.0 - 25.0 34.0 - 39.5	0 - 23.0	37.59	15.0
MW-7C	8/14/2009	35.0	5	1	25.0 - 35.0	0.010	23.0 - 35.0	21.0 - 23.0	0 - 21.0	40.44	12.0

Abbreviations / Notes

ft = feet
in = inches
ft bgs = feet below grade surface
ft msl = feet above mean sea level
TOC = top of casing

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
MW-1A	6/3/2004	Zone A	35.14	4.50	2,500	1,300	260	1,400	ND<0.5	ND<0.5	2.0	11	ND<5.0	
39.64	11/23/2004		36.54	3.10	2,800	1,400	ND<250	2,300	0.64	ND<0.5	2.5	9.7	6.8	a,b,c
	3/14/2005		37.02	2.62	6,000	3,200	ND<250	4,800	0.68	ND<0.5	2.0	6.8	ND<5.0	d,e
	6/15/2005		35.14	4.50	3,400	2,500	ND<250	2,800	ND<2.5	ND<2.5	ND<2.5	5.9	ND<25	a,b,h,i,c
	9/19/2005		33.14	6.50	6,000	2,800	ND<250	4,100	ND<1.0	ND<1.0	3.3	6.2	ND<10	a,b,i,c
	12/12/2005		35.14	4.50	3,100	2,500	ND<250	2,600	ND<1.7	ND<1.7	2.7	6.5	ND<17	a,b,c,h,i
	3/13/2006		37.74	1.90	2,400	2,300	ND<250	2,000	0.51	ND<0.5	1.9	3.5	--	a,b,c,i
	6/19/2006		35.94	3.70	3,500	2,600	ND<250	2,200	0.52	ND<0.5	2.9	6.7	--	m,b,c
	9/20/2006		34.19	5.45	2,400	2,400	ND<250	2,200	ND<2.5	ND<2.5	3.0	9.7	--	a,b,c,i
	12/20/2006		37.02	2.62	1,400	1,900	ND<250	1,300	0.52	ND<0.5	2.9	7.6	--	a,e,h
	3/29/2007		37.04	2.60	2,100	1,200	ND<250	1,800	ND<0.5	ND<0.5	2.2	6.4	ND<5.0	a,b,c
	6/11/2007		35.72	3.92	2,200	2,200	ND<250	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,b,c
	9/7/2007		33.90	5.74	1,700	1,800	ND<250	2,300	ND<0.5	ND<0.5	2.2	4.6	ND<5.0	a,b,c
	12/12/2007		36.53	3.11	3,400	2,500	ND<250	3,100	ND<5.0	ND<5.0	ND<5.0	12	ND<50	a,c
	3/7/2008		37.23	2.41	1,600	1,700	ND<250	2,200	ND<0.5	ND<0.5	2.3	8.9	--	a,c
	6/9/2008		34.69	4.95	2,500	2,000	ND<250	2,200	ND<2.5	ND<2.5	3.4	8.1	ND<25	a,b,c,i
	9/5/2008		33.58	6.06	2,600	1,400	ND<250	2,300	ND<5.0	ND<5.0	ND<5.0	6.4	ND<50	a,c
	12/18/2008		36.68	2.96	1,900	1,800	ND<250	1,600	ND<0.5	ND<0.5	3.3	ND<0.5	--	a,b,c
	3/30/2009		37.28	2.36	3,100	1,800	ND<250	2,000	1.7	ND<1.0	3.4	5.3	ND<10	b,c,m
	9/21-22/2009		**34.87**	**4.77**	**2,900**	**4,600**	**ND<250**	**2,600**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,h**
MW-2A	6/3/2004	Zone A	36.48	4.24	3,500	2,900	ND<250	1,700	ND<0.5	3.5	4.9	5.1	ND<5.0	
40.72	11/23/2004		37.83	2.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		39.02	1.70	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	260	560	450	360	ND<0.5	2.5	ND<0.5	ND<0.5	ND<5.0	e,d,g,i
	6/15/2005		37.91	2.81	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	430	470	330	480	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,i,g,e
	9/19/2005		35.46	5.26	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	960	2,100	870	960	ND<0.5	4.7	2.9	ND<0.5	ND<5.0	e,g,b,i,l
	12/12/2005		37.66	3.06	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	510	700	470	670	ND<0.5	5.9	ND<0.5	ND<0.5	ND<5.0	a,b,e,g,i
	3/13/2006		40.33	0.39	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	81	81	ND<250	100	ND<0.5	1.5	ND<0.5	ND<0.5	--	a,b,c,i
	6/19/2006		37.31	3.41	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	180	530	420	270	ND<0.5	1.7	ND<0.5	ND<0.5	--	e,g,i,l
	9/20/2006		34.65	6.07	1,700	800	730	1,700	ND<2.5	5.5	ND<2.5	ND<2.5	--	a,b,d,e,g,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
MW-2A	12/20/2006		38.57	2.15	61	190	300	94	ND<0.5	1.5	ND<0.5	ND<0.5	--	e,g,m,n
cont.	3/29/2007		38.22	2.50	240	200	ND<250	260	ND<0.5	2.7	ND<0.5	ND<0.5	ND<5.0	a,b,c
	6/11/2007		37.14	3.58	94	200	ND<250	180	ND<0.5	1.7	ND<0.5	ND<0.5	--	a,b,c,i
	9/7/2007		35.04	5.68	180	190	ND<250	240	ND<0.5	0.98	ND<0.5	ND<0.5	ND<5.0	a,b,c,i
	12/12/2007		37.82	2.90	140	220	360	190	ND<0.5	2.9	ND<0.5	ND<0.5	ND<5.0	a,b,g,e
	3/7/2008		38.79	1.93	ND<50	90	ND<250	100	ND<0.5	1.2	ND<0.5	ND<0.5	--	e,b
	6/9/2008		36.18	4.54	180	150	ND<250	180	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	a,b,e,i
	9/5/2008		34.46	6.26	220	180	310	300	ND<0.5	1.2	0.59	ND<0.5	ND<5.0	e,g,i,l
	12/18/2008		37.55	3.17	93	170	320	140	ND<0.5	2.7	ND<0.5	ND<0.5	--	a,b,c,d,g,i
	3/30/2009		38.76	1.96	ND<50	99	ND<250	96	ND<0.5	3.2	ND<0.5	ND<0.5	ND<5.0	b,d,e
	9/21-22/2009		**35.99**	**4.73**	**83**	**75**	**ND<250**	**92**	**ND<0.5**	**0.88**	**ND<0.5**	**ND<0.5**	**--**	**c,i,l**
MW-3A	6/3/2004	Zone A	36.56	4.32	12,000	90,000	6,000	4,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	
40.88	11/23/2004		37.89	2.99	5,700	22,000	ND<2,500	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d
	3/14/2005		37.28	3.60	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	3,500	37,000	ND<2,500	2,400	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<17	e,d,i
	6/15/2005		36.78	4.10	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	3,300	15,000	ND<1,200	2,100	ND<1.7	ND<1.7	ND<1.7	2.4	ND<17	a,c,d,h,i
	9/19/2005		35.93	4.95	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	8,000	55,000	ND<5,000	4,700	ND<1.0	ND<1.0	2.6	6.8	ND<10	a,b,c,d,i
	12/12/2005		36.72	4.16	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	1,600	34,000	ND<12,000	1,100	ND<1.7	ND<1.7	ND<1.7	2.3	ND<17	a,b,c,d,h,i
	3/13/2006		37.42	3.46	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	3,300	21,000	1,600	2,200	ND<0.5	ND<0.5	1.1	ND<0.5	--	a,c,d,g,h
	6/19/2006		36.48	4.40	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	16,000	19,000	1,000	8,000	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,d,g,h,m
	9/20/2006		35.78	5.10	3,300	13,000	1,300	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		36.78	4.10	3,500	15,000	670	2,600	ND<2.5	ND<2.5	ND<2.5	7.6	--	e,g,h,n
	3/29/2007		36.82	4.06	3,400	21,000	940	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h
	6/11/2007		36.52	4.36	3,500	13,000	730	5,200	ND<10	ND<10	ND<10	ND<10	--	a,d,h
	9/7/2007		35.98	4.90	15,000	36,000	1,600	11,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,d,h
	12/12/2007		36.54	4.34	13,000	41,000	ND<2,500	9,500	ND<5.0	7.1	ND<5.0	32	ND<50	a,c,h,
	3/7/2008		36.87	4.01	2,800	26,000	1,200	3,200	ND<2.5	ND<2.5	ND<2.5	2.5	--	a,h,c
	6/9/2008		36.03	4.85	16,000	20,000	ND<1,200	7,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.78	5.10	19,000	17,000	1,200	15,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	12/18/2008		36.65	4.23	6,600	25,000	ND<2,500	4,700	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	c,m,h

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
MW-3A	3/30/2009		37.19	3.69	15,000	31,000	ND<2,500	8,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,h,m
cont.	**9/21-22/2009**		**36.56**	**4.32**	**11,000**	**31,000**	**1,300**	**7,500**	**5.8**	**7.5**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,i**
MW-4A	6/3/2004	Zone A	36.26	2.45	ND<50	270	440	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.71	11/23/2004		37.13	1.58	ND<50	73	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	3/14/2005		36.66	2.05	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	210	300	ND<50	0.91	1.7	ND<0.5	1.9	ND<5.0	g,d,f,i
	6/15/2005		36.38	2.33	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	75	99	ND<250	59	1.0	1.9	ND<0.5	2.1	ND<5.0	j,d,f
	9/19/2005		35.01	3.70	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	87	ND<250	ND<50	1.2	2.1	0.51	2.4	ND<5.0	d,f
	12/12/2005		36.39	2.32	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	71	ND<250	ND<50	0.67	1.4	ND<0.5	1.9	ND<5.0	d,f,i
	3/13/2006		36.75	1.96	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	ND<50	68	ND<250	ND<50	0.60	1.3	ND<0.5	1.8	--	d,f
	6/19/2006		36.15	2.56	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	ND<50	72	ND<250	ND<50	0.53	1.1	ND<0.5	1.6	--	f
	9/20/2006		35.10	3.61	88	160	ND<250	110	1.2	2.5	0.61	3.9	--	a,d,f,i
	12/20/2006		36.39	2.32	ND<50	97	ND<250	ND<50	0.99	2.1	0.52	2.9	--	f
	3/29/2007		36.46	2.25	ND<50	ND<50	ND<250	ND<50	ND<0.5	0.93	ND<0.5	1.3	ND<5.0	
	6/11/2007		36.14	2.57	ND<50	66	ND<250	ND<50	ND<0.5	0.92	ND<0.5	1.6	--	d,f
	9/7/2007		35.34	3.37	ND<50	78	ND<250	ND<50	0.74	1.3	ND<0.5	1.9	ND<5.0	f
	12/12/2007		36.25	2.46	62	68	ND<250	86	0.62	1.8	ND<0.5	2.4	ND<5.0	j,d,f
	3/7/2008		36.46	2.25	ND<50	71	ND<250	ND<50	ND<0.5	1.0	ND<0.5	1.5	--	l,f
	6/9/2008		35.49	3.22	ND<50	66	ND<250	ND<50	ND<0.5	0.94	ND<0.5	1.5	ND<5.0	d,f
	9/5/2008		34.79	3.92	69	100	ND<250	90	0.61	1.2	ND<0.5	2.0	ND<5.0	d,h,j
	12/18/2008		36.55	2.16	ND<50	73	ND<250	ND<50	0.67	1.4	ND<0.5	2.3	--	d,f
	3/30/2009		36.43	2.28	70	89	ND<250	75	0.64	1.4	ND<0.5	2.4	ND<5.0	d,j
	9/21-22/2009		**36.14**	**2.57**	**ND<50**	**66**	**ND<250**	**ND<50**	**ND<0.5**	**0.83**	**<0.5**	**1.9**	**--**	**f,i**
MW-6A	6/3/2004	Zone A	31.98	6.00	2,400	3,500	340	970	ND<0.5	ND<0.5	ND<0.5	2.1	ND<5.0	
37.98	11/23/2004		33.13	4.85	3,000	1,400	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	3.0	ND<5.0	a,c
	3/14/2005		35.03	2.95	2,600	5,900	ND<250	2,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	e,d,i
	6/15/2005		33.28	4.70	3,400	6,100	ND<250	2,200	ND<0.5	ND<0.5	0.60	4.4	ND<10	a,i,c,d
	9/19/2005		32.07	5.91	3,900	2,600	ND<250	2,200	ND<1.0	ND<1.0	1.4	7.6	ND<10	a,b,c
	12/12/2005		33.12	4.86	4,500	4,600	ND<250	2,900	ND<0.5	ND<0.5	1.6	8.9	ND<5.0	a,c,h,i

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
	3/13/2006		36.05	1.93	3,000	4,300	ND<250	1,900	ND<0.5	ND<0.5	ND<0.5	4.3	--	a,c,d,h
MW-6A	6/19/2006		32.59	5.39	4,600	7,800	260	2,300	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
cont.	9/20/2006		31.96	6.02	1,200	2,600	ND<250	960	ND<2.5	ND<2.5	ND<2.5	ND<2.5	--	a,c,i
	12/20/2006		33.57	4.41	3,200	4,100	ND<250	2,400	ND<5.0	ND<5.0	ND<5.0	8.1	--	e,h,n
	3/29/2007		33.67	4.31	2,700	2,900	ND<250	2,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c
	6/11/2007		32.95	5.03	3,700	6,400	ND<250	4,300	ND<0.5	ND<0.5	2.1	9.5	--	a,c
	9/7/2007		32.32	5.66	1,400	5,800	ND<250	1,600	ND<1.0	ND<1.0	ND<1.0	3.1	ND<10	a,b,c,d,h
	12/12/2007		33.50	4.48	4,400	9,600	ND<250	3,300	ND<5.0	ND<5.0	ND<5.0	8.4	ND<50	a,c,d
	3/7/2008		34.30	3.68	3,700	6,200	280	4,100	ND<2.5	ND<2.5	ND<2.5	6.9	--	a,h,c
	6/9/2008		32.30	5.68	16,000	7,200	290	7,900	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h,i
	9/5/2008		32.05	5.93	11,000	3,200	ND<250	8,700	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		33.98	4.00	4,300	11,000	460	3,000	ND<1.0	ND<1.0	1.2	ND<1.0	--	a,c,d,h
	3/30/2009		34.06	3.92	3,100	11,000	430	2,300	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,h,j
	9/21-22/2009		**32.30**	**5.68**	**2,800**	**7,300**	**300**	**2,100**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,h**
MW-7A	6/3/2004	Zone A	36.08	4.50	9,900	--	--	3,900	ND<5.0	ND<5.0	ND<5.0	6.6	ND<50	
40.58	11/23/2004		--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005		37.03	3.55	3,700	14,000	620	3,900	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	c,d,h
	6/15/2005		36.41	4.17	3,900	24,000	ND<1,200	2,500	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,c,d,h,i
	9/19/2005		35.25	5.33	13,000	43,000	ND<5,000	7,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,i
	12/12/2005		36.15	4.43	2,500	10,000	ND<1,200	1,700	ND<1.0	ND<1.0	1.4	2.4	ND<10	a,c,d,h,i
	3/13/2006		36.76	3.82	2,300	31,000	1,100	1,600	ND<0.5	ND<0.5	0.93	9.1	--	a,c,d,g,h,i
	6/19/2006		35.78	4.80	44,000	36,000	1,300	26,000	ND<5.0	ND<5.0	10	ND<5.0	--	c,d,g,h,i,m
	9/20/2006		35.03	5.55	69,000	36,000	ND<5,000	49,000	ND<50	ND<50	ND<50	ND<50	--	a,c,h,i
	12/20/2006		36.35	4.23	53,000	14,000	ND<1,200	38,000	ND<50	ND<50	ND<50	150	--	e,h,n
	3/29/2007		36.06	4.52	5,600	34,000	890	4,100	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		36.02	4.56	3,400	32,000	ND<1,200	3,800	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h,i
	9/7/2007		35.18	5.40	19,000	57,000	ND<2,500	21,000	ND<10	ND<10	ND<10	54	ND<100	a,b,c,d,h
	12/12/2007		35.96	4.62	16,000	45,000	1,400	13,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,d
	3/7/2008		36.28	4.30	3,500	56,000	1,600	3,800	ND<2.5	ND<2.5	ND<2.5	3.7	--	a,h,i,c
	6/9/2008		35.35	5.23	68,000	150,000	ND<12,000	35,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	9/5/2008		35.00	5.58	13,000	63,000	2,700	9,800	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h,i
	12/18/2008		35.95	4.63	9,100	28,000	ND<2,500	6,200	ND<2.5	ND<2.5	2.7	ND<2.5	--	a,c,h
	3/30/2009		36.38	4.20	16,000	110,000	ND<12,000	11,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/21-22/2009		**35.77**	**4.81**	**6,400**	**84,000**	**ND<5,000**	**4,500**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,h**

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
MW-1B	6/3/2004	Zone B	25.10	14.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
39.50	11/23/2004		26.24	13.26	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
MW-1B	3/14/2005		33.97	5.53	ND<50	52	ND<250	ND<50	0.60	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d,i
cont.	6/15/2005		31.87	7.63	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		30.35	9.15	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.39	9.11	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.15	7.35	--	--	--	--	--	--	--	--	--	
	6/19/2006		22.99	16.51	--	--	--	--	--	--	--	--	--	
	9/20/2006		30.32	9.18	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.60	7.90	--	--	--	--	--	--	--	--	--	
	3/29/2007		24.63	14.87	--	--	--	--	--	--	--	--	--	
	6/11/2007		26.39	13.11	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.42	11.08	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.60	8.90	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.48	7.02	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.50	9.00	--	--	--	--	--	--	--	--	--	
	9/5/2008		30.11	9.39	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	9.16	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.09	7.41	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**30.42**	**9.08**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3B	**9/21-22/2009**	Zone B	**31.69**	**8.93**	**ND<50**	**ND<50**	**ND<250**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**--**	**i**
40.62														
MW-4B	6/3/2004	Zone B	33.52	5.02	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.54	11/23/2004		34.65	3.89	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		34.78	3.76	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		33.98	4.56	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		32.57	5.97	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		33.65	4.89	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		34.61	3.93	--	--	--	--	--	--	--	--	--	
	6/19/2006		33.86	4.68	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
	9/20/2006		32.58	5.96	--	--	--	--	--	--	--	--	--	
	12/20/2006		33.92	4.62	--	--	--	--	--	--	--	--	--	
	3/29/2007		33.96	4.58	--	--	--	--	--	--	--	--	--	
MW-4B	6/11/2007		34.03	4.51	--	--	--	--	--	--	--	--	--	
cont.	9/7/2007		33.22	5.32	--	--	--	--	--	--	--	--	--	
	12/12/2007		33.85	4.69	--	--	--	--	--	--	--	--	--	
	3/7/2008		34.58	3.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		33.45	5.09	--	--	--	--	--	--	--	--	--	
	9/5/2008		32.64	5.90	--	--	--	--	--	--	--	--	--	
	12/18/2008		33.39	5.15	--	--	--	--	--	--	--	--	--	
	3/30/2009		34.33	4.21	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**33.34**	**5.20**	--	--	--	--	--	--	--	--	--	
MW-5B	6/3/2004	Zone B	30.16	8.82	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.98	11/23/2004		31.32	7.66	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.71	6.27	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		31.20	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	9/19/2005		28.68	10.30	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.65	8.33	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.87	6.11	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.97	8.01	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.68	9.30	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.77	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.40	7.58	--	--	--	--	--	--	--	--	--	
	6/11/2007		31.02	7.96	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.02	8.96	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.88	8.10	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.55	6.43	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.50	9.48	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.10	6.88	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.97**	**9.01**										

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
MW-6B	6/3/2004	Zone B	29.36	8.30	2,900	2,300	ND<250	1,100	ND<0.5	ND<0.5	ND<0.5	1.4	ND<5.0	
37.66	11/23/2004		30.53	7.13	700	280	ND<250	500	ND<0.5	ND<0.5	ND<0.5	1.6	ND<5.0	a,c
	3/14/2005		31.86	5.80	1,200	5,200	340	1,300	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	e,d,i
	6/15/2005		30.17	7.49	1,300	1,700	ND<250	900	ND<0.5	ND<0.5	ND<0.5	1.9	ND<5.0	a,c
MW-6B	9/19/2005		28.83	8.83	2,000	2,700	ND<250	1,200	1.0	1.4	ND<1.0	5.0	ND<20	a,b,c
cont.	12/12/2005		29.85	7.81	1,200	4,100	ND<250	840	ND<0.5	ND<0.5	ND<0.5	3.3	ND<5.0	a,c,h,i
	3/13/2006		32.31	5.35	2,000	6,900	270	1,400	ND<0.5	ND<0.5	ND<0.5	4.7	--	a,c,d,h,i
	6/19/2006		29.88	7.78	3,300	7,700	310	1,700	ND<1.0	ND<1.0	ND<1.0	ND<1.0	--	c,g,h,m
	9/20/2006		28.78	8.88	4,200	16,000	740	3,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,g,h,i
	12/20/2006		30.34	7.32	77,000	16,000	ND<1,200	55,000	ND<50	ND<50	ND<50	130	--	e,g,h,n
	3/29/2007		30.44	7.22	4,300	24,000	650	3,400	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<50	a,h,c,d
	6/11/2007		29.93	7.73	2,100	29,000	ND<1,200	2,600	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,d,h
	9/7/2007		28.95	8.71	3,800	32,000	ND<1,200	4,500	ND<5.0	ND<5.0	ND<5.0	11	ND<50	a,b,c,d,h
	12/12/2007		30.00	7.66	15,000	36,000	1,000	12,000	ND<25	ND<25	ND<25	ND<25	ND<250	a,h,c,d
	3/7/2008		31.70	5.96	2,700	27,000	1,100	3,100	ND<2.5	ND<2.5	ND<2.5	6.1	--	a,h,k
	6/9/2008		29.36	8.30	20,000	81,000	ND<5,000	9,500	ND<25	ND<25	ND<25	ND<25	ND<250	a,c,h
	9/5/2008		28.66	9.00	17,000	40,000	ND<2500	13,000	ND<10	ND<10	ND<10	ND<10	ND<100	a,c,h
	12/18/2008		29.68	7.98	7,400	29,000	ND<2,500	5,200	ND<5.0	ND<5.0	ND<5.0	ND<5.0	--	a,c,h
	3/30/2009		31.31	6.35	13,000	34,000	ND<2,500	10,000	ND<25	ND<25	ND<25	ND<25	ND<250	c,h,m
	9/21-22/2009		**28.94**	**8.72**	**2,900**	**15,000**	**610**	**2,200**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**ND<5.0**	**--**	**a,c,d,h**
MW-7B	**9/21-22/2009**	Zone B	**30.73**	**9.32**	**1,700**	**6,300**	**ND<500**	**1,300**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**2.3**	**--**	**a,c,h**
40.05														
MW-1C	6/3/2004	Zone C	30.07	9.42	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
39.49	11/23/2004		31.30	8.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		32.58	6.91	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	f
	6/15/2005		30.89	8.60	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		29.19	10.30	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	12/12/2005		30.54	8.95	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		32.99	6.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.66	8.83	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.53	9.96	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.13	8.36	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.19	8.30	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.63	8.86	--	--	--	--	--	--	--	--	--	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*
	9/7/2007		29.60	9.89	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.61	8.88	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.46	7.03	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.07	9.42	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.34	10.15	--	--	--	--	--	--	--	--	--	
MW-1C	12/18/2008		30.28	9.21	--	--	--	--	--	--	--	--	--	
cont.	3/30/2009		32.12	7.37	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
	9/21-22/2009		**29.59**	**9.90**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-3C	**9/21-22/2009**	Zone C	**29.52**	**11.48**	**ND<50**	**79**	**ND<250**	**ND<50**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**--**	**f,i**
41.00														
MW-4C	6/3/2004	Zone C	30.10	8.40	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
38.50	11/23/2004		31.31	7.19	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		33.15	5.35	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	6/15/2005		30.85	7.65	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		25.97	12.53	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	12/12/2005		30.00	8.50	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i
	3/13/2006		31.18	7.32	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.90	7.60	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.91	8.59	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.29	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.29	7.21	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.93	7.57	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.20	8.30	--	--	--	--	--	--	--	--	--	
	12/12/2007		31.10	7.40	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.25	6.25	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.35	8.15	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.62	8.88	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.31	8.19	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.59	6.91	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
	9/21-22/2009		**30.08**	**8.42**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID *(TOC)*	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* *(ft msl)*	*Depth to Water* *(ft, TOC)*	*TPHss* *(µg/L)*	*TPHd* *(µg/L)*	*TPHmo* *(µg/L)*	*TPHg* *(µg/L)*	*Benzene* *(µg/L)*	*Toluene* *(µg/L)*	*Ethylbenzene* *(µg/L)*	*Xylenes* *(µg/L)*	*MTBE* *(µg/L)*	*Notes*
MW-6C	6/3/2004	Zone C	27.89	9.70	340	240	ND<250	160	ND<0.5	ND<0.5	ND<0.5	1.1	ND<5.0	
37.59	11/23/2004		29.21	8.38	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	3/14/2005		31.79	5.80	ND<50	60	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	d
	6/15/2005		30.14	7.45	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
	9/19/2005		28.79	8.80	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
MW-6C	12/12/2005		29.81	7.78	ND<50	ND<50	ND<250	ND<50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	
cont.	3/13/2006		32.09	5.50	--	--	--	--	--	--	--	--	--	
	6/19/2006		29.84	7.75	--	--	--	--	--	--	--	--	--	
	9/20/2006		28.74	8.85	--	--	--	--	--	--	--	--	--	
	12/20/2006		30.29	7.30	--	--	--	--	--	--	--	--	--	
	3/29/2007		30.39	7.20	--	--	--	--	--	--	--	--	--	
	6/11/2007		29.86	7.73	--	--	--	--	--	--	--	--	--	
	9/7/2007		28.92	8.67	--	--	--	--	--	--	--	--	--	
	12/12/2007		29.94	7.65	--	--	--	--	--	--	--	--	--	
	3/7/2008		31.63	5.96	--	--	--	--	--	--	--	--	--	
	6/9/2008		29.32	8.27	--	--	--	--	--	--	--	--	--	
	9/5/2008		28.60	8.99	--	--	--	--	--	--	--	--	--	
	12/18/2008		29.64	7.95	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.26	6.33	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**28.89**	**8.70**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-7C	**9/21-22/2009**	Zone C	**29.53**	**10.91**	**2,300**	**1,900**	**ND<250**	**1,600**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<2.0**	**--**	**a,c,h**
40.44														

Abbreviations and Notes:

µg/L = micrograms per liter - approximately equal to parts per billion = ppb
(TOC) = Top of casing elevation in feet above mean sea level (msl)
ft = measured in feet
TPHd = Total petroleum hydrocarbons as diesel by EPA Method SW8015C with silica gel cleanup (C10-C23)
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method SW8015C (C6-C12).
TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method SW8015C with silica gel cleanup (C18-C36)
TPHss = Total petroleum hydrocarbons as stoddard solvent by EPA Method SW8015C (C9-C12)
Benzene, toluene, ethylbenzene, and xylenes by EPA Method SW8021B.
MTBE = Methyl tertiary-butyl ether by EPA Method SW8021B (EPA Method SW8260B).
ND<50 = Not Detected above detection limit cited.
-- = Not available, not applicable, not analyzed, not measured

TABLE 2

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation* (ft msl)	*Depth to Water* (ft, TOC)	*TPHss* (µg/L)	*TPHd* (µg/L)	*TPHmo* (µg/L)	*TPHg* (µg/L)	*Benzene* (µg/L)	*Toluene* (µg/L)	*Ethylbenzene* (µg/L)	*Xylenes* (µg/L)	*MTBE* (µg/L)	*Notes*

a = TPH pattern that does not appear to be derived from gasoline
(stoddard solvent/mineral spirit?).
b = No recognizable pattern.
c = Stoddard solvent/mineral spirit.
d = Diesel range compounds are significant; no recognizable pattern.
e = Gasoline range compounds are significant.
f = One to a few isolated peaks present
g = Oil range compounds are significant.
h = Lighter than water immiscible sheen/product is present.
i = Liquid sample contains greater than ~1 vol. % sediment.
j = Unmodified or weakly modified gasoline is significant
k = TPHg range non-target isolated peaks subtracted out of the TPHg concentration
l = Heavier gasoline compounds are significant (aged gasoline?)
m = Strongly aged gasoline or diesel range compounds are significant
n = Diesel range compounds are significant

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Sample Collection Depth (ft bgs)*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss*	*TPHd*	*TPHmo*	*TPHg*	*Notes*
						←		*ug/l*	→	
SB-1	11/25/2002	A-Zone		35.39	3.45	---	---	---	---	
(38.84)	11/26/2002	A-Zone		35.44	3.40	ND<50	2,000	7,500	58	
SB-2	11/25/2002	C-Zone		11.61	29.50	---	---	---	---	
(41.11)	11/26/2002	C-Zone		29.46	11.65	ND<50	ND<50	ND<250	ND<50	
SB-4	11/25/2002	A-Zone		34.02	6.90	---	---	---	---	
(40.92)	11/26/2002	A-Zone		34.82	6.10	---	---	---	---	SPH
SB-6	11/25/2002	A-Zone		28.24	11.25	---	---	---	---	
(39.49)	11/26/2002	A-Zone		32.19	7.30	7,800	23,000	620	8,700	a,b,c
SB-7	11/25/2002	B-Zone		28.20	10.30	---	---	---	---	
(38.50)	11/26/2002	B-Zone		30.10	8.40	5,800	120,000	<25,000	6,100	a,b,c
SB-8	11/25/2002	A-Zone		36.30	4.70	---	---	---	---	
(41.00)	11/26/2002	A-Zone		36.55	4.65	100,000	1,200,000	ND<250,000	110,000	a,b,c
SB-9	11/25/2002	C-Zone		16.02	25.00	---	---	---	---	
(41.02)	11/26/2002	C-Zone		17.07	23.95	ND<50	50	300	ND<50c	
SB-10	11/25/2002	A-Zone		29.27	11.60	---	---	---	---	
(40.87)	11/26/2002	A-Zone		31.12	9.75	200	350	ND<250	260a,c	
SB-11	11/25/2002	C-Zone		12.15	29.30	---	---	---	---	
(41.45)	11/26/2002	C-Zone		19.55	21.90	ND<50	ND<50	ND<250	ND<50	
SB-12A	1/13/2004	A-Zone		---	4.5	ND<50	130	300	230	h,c,e,d,f

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Sample Collection Depth (ft bgs)*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss*	*TPHd*	*TPHmo*	*TPHg*	*Notes*
						←		*ug/l*	→	
SB-14A	1/9/2004	A-Zone		---	4.0	ND<50	ND<50	ND<250	ND<50	c
SB-14C	1/9/2004	C-Zone		---	NW	---	---	---	---	
SB-15A	1/12/2004	A-Zone		---	4.0	2,500	2,400	290	2,700	a,c,d
SB-16A	1/12/2004	A-Zone		---	4.0	1,500	23,000	9,800	1,700	a,b,c,d,e,i
SB-17A	1/13/2004	A-Zone		---	NW	---	---	---	---	
SB-17B	1/8/2004	B-Zone		---	16.5	ND<50	95	ND<250	120	c,d,f,g
SB-17C	1/13/2004	C-Zone		---	NW	---	---	---	---	
SB-18A	1/6/2004	A-Zone		---	1.5	2,100	11,000	ND<2,500	3,900	d,b
SB-18B*	1/9/2004	C-Zone		---	25.0	ND<50	92	ND<250	250	g,h
SB-18C	1/9/2004	C-Zone		---	34.0	170	---	---	300	c,g,h
SB-19A	1/13/2004	A-Zone		---	NW	---	---	---	---	
SB-20A	1/13/2004	A-Zone		---	8.0	610	1400	ND<250	680	b,d,j
SB-20C	1/13/2004	C-Zone		---	31.0	ND<50	ND<50	ND<250	ND<50	c
SB-21A	1/20/2004	A-Zone		---	8.5	5,600	110000	<25,000	6,100	a,b,i,k
SB-22A	1/7/2004	A-Zone		---	NW	---	---	---	---	
SB-22C	1/7/2004	C-Zone		---	--	ND<50	110	ND<250	ND<50	c,f
SB-25A	1/8/2004	A-Zone		---	5.0	ND<50	64	ND<250	ND<50	c,f,g
SB-25C	1/8/2004	C-Zone		---	29.0	ND<50	ND<50	ND<250	ND<50	c
SB-26A	1/7/2004	A-Zone		---	4.0	2,600	5300	1000	3,000	c,d,e

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Sample Collection Depth (ft bgs)*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss*	*TPHd*	*TPHmo*	*TPHg*	*Notes*
						←	*ug/l*	→		
SB-26-12-W	8/17/2009	A-Zone	12	---	---	75	NA	ND<250	65	j
SB-26-24-W	8/17/2009	B-Zone	24	---	---	ND<50	ND<50	ND<250	ND<50	
SB-26-40-W	8/17/2009	C-Zone	40	---	---	ND<50	ND<50	ND<250	ND<50	
SB-26-40-W	8/14/2009	C-Zone	40	---	---	ND<50	**	**	ND<50	
SB-27-12-W	8/12/2009	A-Zone	---	---	---		Dry, No Sample			
SB-27-24-W	8/12/2009	B-Zone	24	---	---	ND<50	ND<50	ND<250	ND<50	
SB-27-40-W	8/12/2009	C-Zone	40	---	---	ND<50	57	250	ND<50	e,f
SB-28-12-W	8/17/2009	A-Zone	---	---	---		Dry, No Sample			
SB-28-24-W	8/17/2009	B-Zone	24	---	---	760	ND<50	ND<250	530	a
SB-28-35-W	8/17/2009	C-Zone	35	---	---	ND<50	ND<50	ND<250	ND<50	
CPT-11-W	8/17/2009	"D-Zone"	56-60	---	---	ND<50	ND<50	ND<250	ND<50	
Previous SCI Samples										
Interior	2/20/2002			---	---	13,000	94000	---	21,000	
Exterior	2/25/2002			---	---	42,000	82000	---	66,000	

Abbreviations and Notes:

µg/l = micrograms per liter
(TOC) = Top of temporary casing in feet above mean seal level.
ft msl = Feet above mean sea level.
ft bgs = feet below ground surface
ND<n = Not Detected above detection limit cited (n represents the reported detection limit)
--- = Not available, not analyzed, or does not apply.
NW = No groundwater for sample.

TABLE 3

GRAB GROUNDWATER ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Sample Collection Depth (ft bgs)*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft, TOC)*	*TPHss* ←	*TPHd*	*ug/l*	*TPHmo* →	*TPHg*	*Notes*

TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup (C18-C36)
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup (C10-C23)
TPHss = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8021B/8015Cm (C9-C12)
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8021B/8015Cm (C6-C12)

Grab groundwater samples may have been collected without protection against cross contamination between groundwater zones and may not be discrete.
A-Zone ~3.5 to 12 ft below grade (bg)
B-Zone ~13 to 24 ft bg
C-Zone ~25 to 40 ft bg
* = Sample SB-18B collected in the C-zone
** = Insufficient volume of groundwater to sample for anlaysis.
a = Laboratory note: TPH pattern that does not appear to be derived from gasoline (Stoddard solvent/mineral spirit?)
b = Laboratory note: lighter than water immiscible sheen/product is present
c = Laboratory note: liquid sample that contains greater than ~2 vol. % sediment
d = Laboratory note: gasoline range compounds are significant
e = Laboratory note: oil range compounds are significant
f = Laboratory note: diesel range compounds are significant; no recognizable pattern
g = Laboratory note: one to a few isolated non-target peaks present
h = Laboratory note: unmodified or weakly modified gasoline is significant
i = Laboratory note: sample diluted due to high organic content
j = Laboratory note: strongly aged gasoline or diesel range compounds are significant
k = Laboratory note: stoddard solvent/mineral spirit

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
MW-1A	6/3/2004	**Zone A**	35.14	4.50	--	ND<2.5	ND<2.5	ND<2.5	55	16	ND<2.5	36	ND<2.5	ND<2.5	ND<2.5	6.3	
39.64	11/23/2004		36.54	3.10	ND<1.0	ND<1.0	ND<1.0	ND<1.0	38	11	ND<1.0	51	2.4	2.8	ND<1.0	9.5	
	3/14/2005		37.02	2.62	ND<1.0	ND<1.0	ND<1.0	ND<1.0	42	12	2.0	32	2.2	2.4	ND<1.0	8.0	
	6/15/2005		35.14	4.50	ND<1.0	ND<1.0	ND<1.0	ND<1.0	62	19	2.6	24	2.4	3.0	ND<1.0	10	h,i
	9/19/2005		33.14	6.50	ND<1.2	ND<1.2	ND<1.2	ND<1.2	55	18	2.3	28	2.0	2.6	ND<1.2	9.4	i
	12/12/2005		35.14	4.50	ND<1.0	ND<1.0	ND<1.0	16	60	17	2.0	22	2.3	2.5	ND<1.0	12	h,i
	3/13/2006		37.74	1.90	ND<1.2	ND<1.2	ND<1.2	14	30	17	ND<1.2	16	1.4	2.0	ND<1.2	4.0	i
	6/19/2006		35.94	3.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	33	9.0	ND<0.5	15	1.1	1.8	ND<0.5	3.2	
	9/20/2006		34.19	5.45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	34	15	ND<0.5	21	1.6	2.3	ND<0.5	5.4	i
	12/20/2006		37.02	2.62	ND<0.5	ND<0.5	ND<0.5	ND<0.5	27	15	ND<0.5	16	1.3	1.7	ND<0.5	5.2	
	3/29/2007		37.04	2.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	29	16	ND<0.5	13	1.2	1.4	ND<0.5	ND<0.5	
	6/11/2007		35.72	3.92	ND<0.5	ND<0.5	ND<0.5	ND<0.5	26	17	ND<0.5	13	1.6	1.9	ND<0.5	2.3	
	9/7/2007		33.90	5.74	ND<0.5	ND<0.5	ND<0.5	ND<0.5	25	15	ND<0.5	17	1.4	2.0	ND<0.5	2.3	
	12/12/2007		36.53	3.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	15	10	ND<0.5	14	1.2	2.1	ND<0.5	1.5	
	3/7/2008		37.23	2.41	ND<0.5	ND<0.5	ND<0.5	17	9.0	9.3	1.3	13	1.2	1.7	ND<0.5	1.7	
	6/9/2008		34.69	4.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	9.0	ND<0.5	11	1.1	1.8	ND<0.5	2.4	i
	9/5/2008		33.58	6.06	ND<0.5	ND<0.5	ND<0.5	ND<0.5	12	13	ND<0.5	13	1.3	1.7	ND<0.5	1.5	
	12/18/2008		36.68	2.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.6	8.6	ND<0.5	13	0.99	1.5	ND<0.5	2.7	
	3/30/2009		37.28	2.36	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	10	ND<0.5	9.8	1.1	1.5	ND<0.5	2.5	
	9/21-22/2009		**34.87**	**4.77**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**5.7**	**2.2**	**ND<1.0**	**9.2**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**ND<1.0**	**h**
MW-2A	6/3/2004	**Zone A**	36.48	4.24	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
40.72	11/23/2004		37.83	2.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		39.02	1.70	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		37.91	2.81	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		35.46	5.26	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		37.66	3.06	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		40.33	0.39	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		37.31	3.41	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		34.65	6.07	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		38.57	2.15	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		38.22	2.50	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		37.14	3.58	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		35.04	5.68	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		37.82	2.90	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		38.79	1.93	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		36.18	4.54	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		34.46	6.26	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		37.55	3.17	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		38.76	1.96	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**35.99**	**4.73**													
MW-3A	6/3/2004	**Zone A**	36.56	4.32	--	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	ND<50	a
40.88	11/23/2004		37.89	2.99	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	3/14/2005		37.28	3.60	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	j, i
	6/15/2005		36.78	4.10	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	52	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
MW-3A	9/19/2005		35.93	4.95	--	--	--	--	--	--	--	--	--	--	--	--	
cont.	9/20/2005		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	51	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	i
	12/12/2005		36.72	4.16	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<1.0	ND<1.0	ND<1.0	26	ND<1.0	ND<1.0	43	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i,
	3/13/2006		37.42	3.46	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2006		--	--	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	i
	6/19/2006		36.48	4.40	3.7	--	--	--	--	--	--	--	--	--	--	--	
	6/20/2006		--	--	9.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	9/20/2006		35.78	5.10	31	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h,i
	12/20/2006		36.78	4.10	31	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	3/29/2007		36.82	4.06	55	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	
	6/11/2007		36.52	4.36	68	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	9/7/2007		35.98	4.90	82	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	h
	12/12/2007		36.54	4.34	72	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	3/7/2008		36.87	4.01	74	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	19	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	6/9/2008		36.03	4.85	98	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	22	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	h,i
	9/5/2008		35.78	5.10	92	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	16	ND<1.7	ND<1.7	ND<1.7	ND<1.7	ND<1.7	h
	12/18/2008		36.65	4.23	95	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h
	3/30/2009		37.19	3.69	85	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h
	9/21-22/2009		**36.56**	**4.32**	**82**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**ND<2.5**	**h,i**
MW-4A	6/3/2004	**Zone A**	36.26	2.45	--	ND<0.5	ND<0.5	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.71	11/23/2004		37.13	1.58	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		36.66	2.05	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		36.38	2.33	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		35.01	3.70	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		36.39	2.32	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		36.75	1.96	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		36.15	2.56	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		35.10	3.61	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		36.39	2.32	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		36.46	2.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		36.14	2.57	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		35.34	3.37	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		36.25	2.46	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		36.46	2.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		35.49	3.22	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		34.79	3.92	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		36.55	2.16	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		36.43	2.28	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
	9/21-22/2009		**36.14**	**2.57**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	
MW-6A	6/3/2004	**Zone A**	31.98	6.00	--	4.7	0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	2.1	ND<0.5	6.7	
37.98	11/23/2004		33.13	4.85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		35.03	2.95	ND<0.5	0.61	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		33.28	4.70	ND<0.5	6.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	ND<0.5	2.5	1.5	ND<0.5	3.2	i
	9/19/2005		32.07	5.91	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	6.7	4.7	0.59	5.0	
	12/12/2005		33.12	4.86	ND<0.5	13	ND<0.5	8.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	0.82	ND<0.5	ND<0.5	h,i

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MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
MW-6A	3/13/2006		36.05	1.93	ND<0.5	1.7	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
cont.	6/19/2006		32.59	5.39	ND<0.5	9.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	1.1	ND<0.5	1.3	h
	9/20/2006		31.96	6.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	1.9	0.57	ND<0.5	i
	12/20/2006		33.57	4.41	ND<0.5	12	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	3/29/2007		33.67	4.31	ND<0.5	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.69	0.71	ND<0.5	ND<0.5	
	6/11/2007		32.95	5.03	ND<5.0	9.8	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	
	9/7/2007		32.32	5.66	ND<0.5	24	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/12/2007		33.50	4.48	ND<0.5	4.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/7/2008		34.30	3.68	ND<0.5	1.0	ND<0.5	9.5	ND<0.5	ND<0.5	2.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/9/2008		32.30	5.68	0.53	11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/5/2008		32.05	5.93	1.0	8.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/18/2008		33.98	4.00	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	b,h
	3/30/2009		34.06	3.92	ND<0.5	0.83	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**32.30**	**5.68**	**0.93**	**5.2**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-7A	6/3/2004	**Zone A**	36.08	4.50	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
40.58	11/23/2004		--	--	--	--	--	--	--	--	--	--	--	--	--	--	
	3/14/2005		37.03	3.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/15/2005		36.41	4.17	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/19/2005		35.25	5.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		36.15	4.43	ND<0.5	ND<0.5	ND<0.5	21	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	3/13/2006		36.76	3.82	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	6/19/2006		35.78	4.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	9/20/2006		35.03	5.55	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	12/20/2006		36.35	4.23	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	3/29/2007		36.06	4.52	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	
	6/11/2007		36.02	4.56	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	9/7/2007		35.18	5.40	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/12/2007		35.96	4.62	0.70	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/7/2008		36.28	4.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h,i
	6/9/2008		35.35	5.23	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	9/5/2008		35.00	5.58	0.71	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	h, i
	12/18/2008		35.95	4.63	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	b
	3/30/2009		36.38	4.20	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**35.77**	**4.81**	**0.8**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-1B	6/3/2004	**Zone B**	25.10	14.40	--	ND<0.5	8.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.9	ND<0.5	8.1	7.9	ND<0.5	
39.50	11/23/2004		26.24	13.26	ND<0.5	ND<0.5	6.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.5	ND<0.5	8.4	8.8	ND<0.5	
	3/14/2005		33.97	5.53	ND<0.5	1.1	1.9	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.8	ND<0.5	5.2	12	ND<0.5	i
	6/15/2005		31.87	7.63	ND<0.5	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	ND<0.5	8.8	9.9	ND<0.5	i
	9/19/2005		30.35	9.15	ND<0.5	0.98	0.87	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.0	ND<0.5	7.1	11	ND<0.5	i
	12/12/2005		30.39	9.11	ND<0.5	1.5	0.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	ND<0.5	7.0	12	ND<0.5	i
	3/13/2006		32.15	7.35	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	ND<0.5	6.8	5.2	ND<0.5	i
	6/19/2006		22.99	16.51	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	ND<0.5	7.8	6.2	ND<0.5	
	9/20/2006		30.32	9.18	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.9	ND<0.5	11	10	ND<0.5	i
	12/20/2006		31.60	7.90	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.9	ND<0.5	7.7	7.8	ND<0.5	
	3/29/2007		24.63	14.87	ND<0.5	1.6	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.0	ND<0.5	9.7	8.7	ND<0.5	
	6/11/2007		26.39	13.11	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	8.5	ND<0.5	8.0	6.5	ND<0.5	i
	9/7/2007		28.42	11.08	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	9.8	ND<0.5	8.6	7.0	ND<0.5	
	12/12/2007		30.60	8.90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	7.2	7.5	ND<0.5	
	3/7/2008		32.48	7.02	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.5	ND<0.5	8.8	5.6	ND<0.5	
	6/9/2008		30.50	9.00	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	11	ND<0.5	8.9	5.3	ND<0.5	i

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
MW-1B	9/5/2008		30.11	9.39	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	13	ND<0.5	8.1	6.7	ND<0.5	
cont.	12/18/2008		30.34	9.16	ND<0.5	1.2	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	16	ND<0.5	8.2	9.3	ND<0.5	i
	3/30/2009		32.09	7.41	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	10	ND<0.5	10	5.8	ND<0.5	
	9/21-22/2009		**30.42**	**9.08**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**12**	**ND<0.5**	**11**	**8**	**ND<1.0**	
MW-3B	**9/21-22/2009**	**Zone B**	**31.69**	**8.93**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**i**
40.62																	
MW-4B	6/3/2004	**Zone B**	33.52	5.02	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.54	11/23/2004		34.65	3.89	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		34.78	3.76	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		33.98	4.56	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		32.57	5.97	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		33.65	4.89	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		34.61	3.93	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		33.86	4.68	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		32.58	5.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		33.92	4.62	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		33.96	4.58	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		34.03	4.51	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		33.22	5.32	--	--	--	--	--	--	--	--	--	--	--	--	i
	12/12/2007		33.85	4.69	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		34.58	3.96	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		33.45	5.09	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		32.64	5.90	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		33.39	5.15	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		34.33	4.21	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**33.34**	**5.20**													
MW-5B	6/3/2004	**Zone B**	30.16	8.82	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.98	11/23/2004		31.32	7.66	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		32.71	6.27	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		31.20	7.78	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	9/19/2005		28.68	10.30	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		30.65	8.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		32.87	6.11	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.97	8.01	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.68	9.30	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.77	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.40	7.58	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		31.02	7.96	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.02	8.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.88	8.10	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.55	6.43	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.50	9.48	--	--	--	--	--	--	--	--	--	--	--	--	

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
	12/18/2008		30.34	8.64	--	--	--	--	--	--	--	--	--	--	--	--	
MW-5B	3/30/2009		32.10	6.88	--	--	--	--	--	--	--	--	--	--	--	--	
cont.	**9/21-22/2009**		**29.97**	**9.01**													
MW-6B	6/3/2004	**Zone B**	29.36	8.30	--	0.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
37.66	11/23/2004		30.53	7.13	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.89	ND<0.5	ND<0.5	
	3/14/2005		31.86	5.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.5	i
	6/15/2005		30.17	7.49	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	ND<0.5	0.66	ND<0.5	0.55	
	9/19/2005		28.83	8.83	ND<0.5	1.4	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.0	1.2	ND<0.5	1.1	ND<0.5	1.1	
	12/12/2005		29.85	7.81	ND<0.5	2.3	ND<0.5	11	ND<0.5	ND<0.5	ND<0.5	1.3	ND<0.5	1.3	ND<0.5	ND<0.5	h,i
	3/13/2006		32.31	5.35	ND<0.5	0.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	6/19/2006		29.88	7.78	ND<0.5	0.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.52	ND<0.5	ND<0.5	h
	9/20/2006		28.78	8.88	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h,i
	12/20/2006		30.34	7.32	ND<0.5	2.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.2	ND<0.5	0.69	ND<0.5	ND<0.5	h
	3/29/2007		30.44	7.22	ND<0.5	1.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.76	ND<0.5	ND<0.5	
	6/11/2007		29.93	7.73	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	j,h
	9/7/2007		28.95	8.71	ND<0.5	1.3	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.9	ND<0.5	0.66	ND<0.5	ND<0.5	h
	12/12/2007		30.00	7.66	ND<0.5	0.77	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.4	ND<0.5	0.62	ND<0.5	ND<0.5	h
	3/7/2008		31.70	5.96	ND<0.5	1.1	ND<0.5	16	ND<0.5	ND<0.5	1.2	1.0	ND<0.5	0.58	ND<0.5	ND<0.5	h
	6/9/2008		29.36	8.30	ND<1.0	1.8	ND<1.0	ND<1.0	ND<1.0	ND<1.0	ND<1.0	2.5	ND<1.0	ND<1.0	ND<1.0	ND<1.0	h
	9/5/2008		28.66	9.00	ND<5.0	0.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.1	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	12/18/2008		29.68	7.98	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	ND<5.0	b,h
	3/30/2009		31.31	6.35	ND<0.5	0.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	0.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	h
	9/21-22/2009		**28.94**	**8.72**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1.40**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
MW-7B	**9/21-22/2009**	**Zone B**	**30.73**	**9.32**	**0.82**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
40.05																	
MW-1C	6/3/2004	**Zone C**	30.07	9.42	--	ND<0.5	0.57	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
39.49	11/23/2004		31.30	8.19	ND<0.5	ND<0.5	0.56	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		32.58	6.91	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		30.89	8.60	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		29.19	10.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	12/12/2005		30.54	8.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		32.99	6.50	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.66	8.83	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.53	9.96	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.13	8.36	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.19	8.30	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.63	8.86	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		29.60	9.89	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		30.61	8.88	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.46	7.03	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.07	9.42	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.34	10.15	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.28	9.21	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		32.12	7.37	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**29.59**	**9.90**													
MW-3C	**9/21-22/2009**	**Zone C**	**29.52**	**11.48**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**i**
41.00																	

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*
MW-4C	6/3/2004	**Zone C**	30.10	8.40	--	ND<0.5	0.84	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
38.50	11/23/2004		31.31	7.19	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		33.15	5.35	--	--	--	--	--	--	--	--	--	--	--	--	
	3/15/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	6/15/2005		30.85	7.65	--	--	--	--	--	--	--	--	--	--	--	--	
	6/16/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	9/19/2005		25.97	12.53	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	12/12/2005		30.00	8.50	--	--	--	--	--	--	--	--	--	--	--	--	
	12/13/2005		--	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i
	3/13/2006		31.18	7.32	--	--	--	--	--	--	--	--	--	--	--	--	
	6/19/2006		30.90	7.60	--	--	--	--	--	--	--	--	--	--	--	--	
	9/20/2006		29.91	8.59	--	--	--	--	--	--	--	--	--	--	--	--	
	12/20/2006		31.21	7.29	--	--	--	--	--	--	--	--	--	--	--	--	
	3/29/2007		31.29	7.21	--	--	--	--	--	--	--	--	--	--	--	--	
	6/11/2007		30.93	7.57	--	--	--	--	--	--	--	--	--	--	--	--	
	9/7/2007		30.20	8.30	--	--	--	--	--	--	--	--	--	--	--	--	
	12/12/2007		31.10	7.40	--	--	--	--	--	--	--	--	--	--	--	--	
	3/7/2008		32.25	6.25	--	--	--	--	--	--	--	--	--	--	--	--	
	6/9/2008		30.35	8.15	--	--	--	--	--	--	--	--	--	--	--	--	
	9/5/2008		29.62	8.88	--	--	--	--	--	--	--	--	--	--	--	--	
	12/18/2008		30.31	8.19	--	--	--	--	--	--	--	--	--	--	--	--	
	3/30/2009		31.59	6.91	--	--	--	--	--	--	--	--	--	--	--	--	
	9/21-22/2009		**30.08**	**8.42**													
MW-6C	6/3/2004	**Zone C**	27.89	9.70	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.8	ND<0.5	0.61	ND<0.5	ND<0.5	
37.59	11/23/2004		29.21	8.38	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
	3/14/2005		31.79	5.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	1.8	1.9	ND<0.5	12	ND<0.5	1.1	ND<0.5	2.3	
	6/15/2005		30.14	7.45	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.1	3.1	ND<0.5	20	0.64	1.4	ND<0.5	5.7	
	9/19/2005		28.79	8.80	ND<0.5	ND<0.5	ND<0.5	ND<0.5	2.9	3.0	ND<0.5	18	0.57	1.3	ND<0.5	6.8	
	12/12/2005		29.81	7.78	ND<0.5	0.66	ND<0.5	ND<0.5	3.2	3.0	ND<0.5	19	0.61	1.4	ND<0.5	10	
	3/13/2006		32.09	5.50	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.2	3.9	ND<0.5	26	0.61	0.95	ND<0.5	5.1	
	6/19/2006		29.84	7.75	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.0	3.4	ND<0.5	32	0.78	0.96	ND<0.5	11	
	9/20/2006		28.74	8.85	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	4.6	ND<0.5	23	0.76	1.0	ND<0.5	9.4	i
	12/20/2006		30.29	7.30	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.1	4.6	ND<0.5	36	0.88	0.92	ND<0.5	13	
	3/29/2007		30.39	7.20	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.0	6.4	ND<0.5	35	1.2	1.1	ND<0.5	5.3	
	6/11/2007		29.86	7.73	ND<0.5	ND<0.5	ND<0.5	ND<0.5	6.1	6.4	ND<0.5	26	0.99	0.85	ND<0.5	4.0	
	9/7/2007		28.92	8.67	ND<0.5	ND<0.5	ND<0.5	ND<0.5	7.0	6.9	ND<0.5	32	0.99	0.90	ND<0.5	4.2	
	12/12/2007		29.94	7.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.0	5.2	ND<0.5	29	0.84	0.87	ND<0.5	3.8	
	3/7/2008		31.63	5.96	ND<0.5	ND<0.5	ND<0.5	ND<0.5	5.1	5.5	ND<0.5	28	0.90	0.78	ND<0.5	3.2	
	6/9/2008		29.32	8.27	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.5	5.5	ND<0.5	23	0.72	0.71	ND<0.5	3.5	
	9/5/2008		28.60	8.99	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.3	4.2	ND<0.5	ND<0.5	ND<0.5	0.57	ND<0.5	1.2	
	12/18/2008		29.64	7.95	ND<0.5	ND<0.5	ND<0.5	ND<0.5	3.7	4.1	ND<0.5	18	ND<0.5	0.58	ND<0.5	2.8	
	3/30/2009		31.26	6.33	ND<0.5	ND<0.5	ND<0.5	ND<0.5	4.6	5.0	ND<0.5	22	0.58	0.57	ND<0.5	3.5	
	9/21-22/2009		**28.89**	**8.70**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**3.1**	**3.4**	**ND<0.5**	**17**	**ND<0.5**	**0.56**	**ND<0.5**	**1.3**	
MW-7C	**9/21-22/2009**	**Zone C**	**29.53**	**10.91**	**2.8**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**1.1**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**ND<0.5**	**h**
40.44																	

TABLE 4

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
HALOGENATED VOLATILE ORGANIC COMPOUNDS
JOHN NA/DY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Well ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft amsl)*	*Depth to Water (ft, TOC)*	*Chlorobenzene (µg/L)*	*Chloroethane (µg/L)*	*Chloroform (µg/L)*	*1,1,2,2,-Tetra-chloroethane (µg/L)*	*(PCE) Tetrachloroethene (µg/L)*	*(TCE) Trichloroethene (µg/L)*	*1,2-Dichlorobenzene (µg/L)*	*cis-1,2-Dichloroethene (µg/L)*	*trans-1,2-Dichloroethene (µg/L)*	*1,1-Dichloroethane (µg/L)*	*(1,2-DCA) 1,2-Dichloroethane (µg/L)*	*Vinyl Chloride (µg/L)*	*Notes*

Abbreviations and Notes:
µg/L = micrograms per liter; equivalent to parts per billion
ft = measured in feet
ft amsl = measured in feet above mean sea level
TOC = Top of casing elevation in feet above mean sea level (msl)
Halogenated Volatile Organic Compounds analyzed by EPA Method SW8260B, reported EPA Method 8010 basic target list.
ND<0.5 = Not Detected above detection limit cited.
-- = Not available, not applicable, not analyzed, not measured
b = sample diluted due to high organic content
i = liquid sample that contains greater than ~1 vol. % sediment
h = lighter than water immiscible sheen/product is present
j = sample diluted due to high organic content/matrix interference

TABLE 5

GRAB GROUNDWATER ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft)*	*Benzene*	*Toulene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*Chloroethane*	*1,1,2,2-Tetrachloroethane*	*Tetrachloroethene*	*Trichloroethene*	*1,2-Dichlorobenzene*	*cis-1,2-Dichloroethene*	*1,1-Dichloroethane*	*1,2-Dichloroethane*	*Vinyl Chloride*	*Notes*
					← *ug/L* →														
Soil Boring Grab Groundwater Samples																			
SB-1	11/25/2002	A-Zone	35.39	3.45	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(38.84)	11/26/2002	A-Zone	35.44	3.40	**1.7**	**3.2**	**0.55**	**3.6**	ND<0.5	ND<0.5	**1.2**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	j,o
SB-2	11/25/2002	C-Zone	11.61	29.50	---	---	---	---			---	---		---				---	
(41.11)	11/26/2002	C-Zone	29.46	11.65	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	o
SB-4	11/25/2002	A-Zone	34.02	6.90	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(40.92)	11/26/2002	A-Zone	34.82	6.10	---	---	---	---	---	---	---	---	---	---	---	---	---	---	SPH
SB-6	11/25/2002	A-Zone	28.24	11.25	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(39.49)	11/26/2002	A-Zone	32.19	7.30	**2.1**	**1.2**	ND<0.5	**0.55**	**3.8**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**1.2**	**1.4**	ND<0.5	0.90	a,n,o
SB-7	11/25/2002	B-Zone	28.20	10.30	---	---	---	---			---	---		---				---	
(38.50)	11/26/2002	B-Zone	30.10	8.40	ND<0.5	0.74	ND<0.5	**3**	**16**	**16**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	**1.7**	ND<0.5	**1.3**	a,n,o
SB-8	11/25/2002	A-Zone	36.30	4.70	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(41.00)	11/26/2002	A-Zone	36.55	4.65	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	ND<10	**20**	ND<10	ND<10	ND<10	ND<10	a,n,o
SB-9	11/25/2002	C-Zone	16.02	25.00	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(41.02)	11/26/2002	C-Zone	17.07	23.95	ND<0.5	**0.88**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	o
SB-10	11/25/2002	A-Zone	29.27	11.60	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(40.87)	11/26/2002	A-Zone	31.12	9.75	ND<2.5	**3.4**	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	**170**	**19**	ND<2.5	**45**	a,o
SB-11	11/25/2002	C-Zone	12.15	29.30	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
(41.45)	11/26/2002	C-Zone	---	21.90	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
Trip Blank	11/26/2002		---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
SB-12A	1/13/2004	A-Zone	---	4.5	ND<0.5	**2.0**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	a,i,o
SB-14A	1/9/2004	A-Zone	---	4.0	**0.58**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i,o
SB-14C	1/9/2004	C-Zone	---	NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-15A	1/12/2004	A-Zone	---	4.0	ND<0.5	ND<0.5	ND<0.5	**17**	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	e,i,o
SB-16A	1/12/2004	A-Zone	---	4.0	**0.65**	**0.51**	**1.3**	**7.7**	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	e, h,i,p,n,o
SB-17A	1/13/2004	A-Zone	---	NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-17B	1/8/2004	B-Zone	---	16.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	<50	<50	<50	<50	<50	1,100	<50	<50	<50	f,i,o
SB-17C	1/13/2004	C-Zone	---	NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

TABLE 5

GRAB GROUNDWATER ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft)*	*Benzene*	*Toulene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*Chloroethane*	*1,1,2,2-Tetrachloroethane*	*Tetrachloroethene*	*Trichloroethene*	*1,2-Dichlorobenzene*	*cis-1,2-Dichloroethene*	*1,1-Dichloroethane*	*1,2-Dichloroethane*	*Vinyl Chloride*	*Notes*
					←				*ug/L*									→	
SB-18A	1/6/2004	A-Zone	---	1.5	ND<5.0	ND<5.0	ND<5.0	**11**		ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	ND<2.5	e,h,p,n
SB-18B*	1/9/2004	C-Zone	---	25.0	**0.54**	ND<0.5	ND<0.5	**0.64**		ND<100	ND<100	**630**	**430**	ND<100	1,800	ND<100	ND<100	ND<100	a,f
SB-18C	1/9/2004	C-Zone	---	34.0	**0.82**	ND<0.5	ND<0.5	**1.3**		<50	<50	**300**	**250**	<50	1,200	<50	<50	<50	a,f,i,o
SB-19A	1/13/2004	B-Zone	---	NW	---	---	---	---		---	---	---	---	---	---	---	---	---	
SB-20A	1/13/2004	A-Zone	---	8.0	ND<0.5	ND<0.5	ND<0.5	**3.3**		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	g,h,n
SB-20C	1/13/2004	C-Zone	---	31.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i,o
SB-21A	1/20/2004	A-Zone	---	8.5	ND<5.0	ND<5.0	ND<5.0	ND<5.0		<50	<50	<50	<50	<50	<50	<50	<50	<50	e,h,p.n
SB-22A	1/7/2004	A-Zone	---	NW	---	---	---	---		---	---	---	---	---	---	---	---	---	
SB-22C	1/7/2004	C-Zone	---	--	ND<0.5	ND<0.5	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i, o
SB-25A	1/8/2004	A-Zone	---	5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i, o
SB-25C	1/8/2004	C-Zone	---	29.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5		ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	i, o
SB-26A	1/7/2004	A-Zone	---	4.0	**6.2**	ND<5.0	ND<5.0	**13**		ND<0.5	ND<0.5	ND<5.0	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	i,e,o,p
SB-26-12-W	8/17/2009	A-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
SB-26-24-W	8/17/2009	B-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
SB-26-40-W	8/17/2009	C-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
SB-26-40-W	8/14/2009	C-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
SB-27-12-W	8/12/2009	A-Zone	---	NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-27-24-W	8/12/2009	B-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	**7.5**	ND<0.5	ND<0.5	0.97	ND<0.5	ND<0.5	Carbon Tetrachloride = 0.59
SB-27-40-W	8/12/2009	C-Zone	---	---	ND<0.5	**2.6**	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	Carbon Tetrachloride = 0.56
SB-28-12-W	8/17/2009	A-Zone	---	NW	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
SB-28-24-W	8/17/2009	B-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	**5.0**	ND<0.5	**0.56**	ND<0.5	ND<0.5	ND<0.5	
SB-28-35-W	8/17/2009	C-Zone	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	
CPT-11-W	8/17/2009	56-60 fbg "D-Zone"	---	---	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<5.0	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	ND<0.5	

Previous SCI Samples

TABLE 5

GRAB GROUNDWATER ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Boring ID (TOC)	*Date Sampled*	*Groundwater Zone*	*Groundwater Elevation (ft msl)*	*Depth to Water (ft)*	*Benzene*	*Toulene*	*Ethylbenzene*	*Xylenes*	*MTBE*	*Chloroethane*	*1,1,2,2-Tetrachloroethane*	*Tetrachloroethene*	*Trichloroethene*	*1,2-Dichlorobenzene*	*cis-1,2-Dichloroethene*	*1,1-Dichloroethane*	*1,2-Dichloroethane*	*Vinyl Chloride*	*Notes*
					←							*ug/L*						→	
USTs 5&6 pit grab sample	2/20/2002		---	---	**47**	ND<5.0	**9.4**	**114**				ND<5.0	ND<5.0		ND<5.0			ND<5.0	
USTs 1-4 pit grab sample	2/20/2002		---	---	ND<7.1	ND<7.1	ND<7.1	**24**				**83**	ND<7.1		**9.6**			ND<7.1	

Abbreviations and Notes:
mg/L = micrograms per liter
(TOC) = Top of temporary casing in feet above mean seal level.
ft msl = Feet above mean sea level.
ftb = feet below grade (surface).
ND<0.5 = Not Detected above detection limit cited.
--- = Not available, not analyzed, or does not apply
NW = No groundwater for sample.
Volatile organic compounds by EPA Method 8260B
Grab groundwater samples may have been collected without protection against cross contamination between groundwater zones; may not be discrete.
A-Zone ~3.5 to 12 ft below grade (bg)
B-Zone ~13 to 24 ft bg
C-Zone ~25 to 40 ft bg
* = Sample 18B collected in the C-zone
a = TPH pattern that does not appear to be derived from gasoline
b = No recognizable pattern.
c = Stoddard solvent/mineral spirit.
d = Diesel range compounds are significant; no recognizable pattern.
e = Gasoline range compounds are significant.
f = One to a few isolated peaks present
g = Oil range compounds are significant.
h = Lighter than water immiscible sheen/product is present.
i = Liquid sample contains greater than ~1 vol. % sediment.
j = Unmodified or weakly modified gasoline is significant
k = TPHg range non-target isolated peaks subtracted out of the TPHg concentration

TABLE 6

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
EXPANDED ANALYTES/SAMPLED SEPTEMBER 21-22, 2009
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Analyte	*Well ID (Zone)*																
	MW-1A (A)	*MW-2A (A)*	*MW-3A (A)*	*MW-4A (A)*	*MW-6A (A)*	*MW-7A (A)*	*MW-1B (B)*	*MW-3B (B)*	*MW-4B (B)*	*MW-5B (B)*	*MW-6B (B)*	*MW-7B (B)*	*MW-1C (C)*	*MW-3C (C)*	*MW-4C (C)*	*MW-6C (C)*	*MW-7C (C)*	*Unit*
Bromide	0.18	ND<0.1 a	0.20 a	0.30 a	0.34	0.69	1.0	1.5 a	0.27 a	0.35 a	0.32	0.67	0.38	0.84 a	0.65 a	0.41	1.2	mg/L
Chloride	13	12 a	47 a	45 a	35	40	180	230 a	31 a	27 a	24	92	150	230 a	86 a	48	220	mg/L
Nitrate (N)	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	6.4 a	3.7 a	0.59 a	ND<0.1	ND<0.1	37	51 a	27 a	6.3	0.67	mg/L
Nitrate ($NO3^-$)	ND<0.45	ND<0.45 a	ND<0.45 a	ND<0.45 a	ND<0.45	ND<0.45	ND<0.45	28 a	16 a	2.6 a	ND<0.45	ND<0.45	160	230 a	120 a	28	2.9	mg/L
Nitrite (N)	ND<0.1	ND<0.1 a	ND<0.1 a	1.0 a	ND<0.1	ND<0.1	ND<0.1	0.14 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	0.15 a	ND<0.1 a	ND<0.1	0.21	mg/L
Phosphate (P)	1.4	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	ND<0.1	ND<0.1 a	ND<0.1 a	ND<0.1	ND<0.1	mg/L
Sulfate	2.3	27 a	0.32 a	34 a	ND<0.1	0.20	19	93 a	17 a	20 a	0.53	19	58	86 a	60 a	18	49	mg/L
Alkalinity (Total*)	93.2	206 a	408 a	225 a	469	494	659	394 a	291 a	276 a	598	625	164	228 a	192 a	500	547	mg $CaCO_3$/L
Carbonate*	ND<1.0	ND<1.0 a	ND<1.0 a	61.6 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	mg $CaCO_3$/L
Bicarbonate*	93.2	206 a	408 a	ND<1.0 a	469	494	659	394 a	291 a	276 a	598	625	164	228 a	192 a	500	547	mg $CaCO_3$/L
Hydroxide*	ND<1.0	ND<1.0 a	ND<1.0 a	164 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	ND<1.0	ND<1.0 a	ND<1.0 a	ND<1.0	ND<1.0	mg $CaCO_3$/L
Calcium	3,100	60,000 a	60,000 a	57,000 a	61,000	60,000	110,000	86,000 a	50,000 a	46,000 a	98,000	91,000	91,000	290,000 a	57,000 a	84,000	100,000	µg/L
Iron	5,700	16,000 a	46,000 a	1,800 a	48,000	97,000	5,700	190,000 a	110,000 a	51,000 a	18,000	34,000	5,200	460,000 a	14,000 a	19,000	130,000	µg/L
Magnesium	2,000	17,000 a	35,000 a	500 a	43,000	62,000	71,000	77,000 a	42,000 a	30,000 a	48,000	68,000	37,000	270,000 a	31,000 a	39,000	94,000	µg/L
Manganese	280	370 a	13,000 a	34 a	11,000	10,000	680	4,000 a	2,400 a	1,300 a	7,500	3,600	110	21,000 a	370 a	360	5,100	µg/L
Potassium	590	5,200 a	9,400 a	6,300 a	1,700	2,800	2,700	26,000 a	11,000 a	5,800 a	1,200	9,800	1,900	59,000 a	2,900 a	2,800	17,000	µg/L
Sodium	51,000	12,000 a	49,000 a	72,000 a	66,000	89,000	150,000	210,000 a	74,000 a	73,000 a	84,000	120,000	110,000	230,000 a	96,000 a	110,000	170,000	µg/L
Total Ammonia (N)	ND<0.2	ND<0.2 a	1.2 a	2.2 a	ND<0.2	ND<0.2	ND<0.2	ND<0.2 a	ND<0.2 a	ND<0.2 a	ND<0.2	ND<0.2	ND<0.2	ND<0.2 a	ND<0.2 a	ND<0.2	ND<0.2	mg/L
BOD	4.5	ND<4.0 a	42 a	ND<4.0 a	12	34	ND<4.0	5.8 a	ND<4.0 a	ND<4.0 a	16	14	ND<4.0	6.0	ND<4.0 a	ND<4.0	8.8	mg/L
COD	52	27 a	110 a	30 a	94	110	12	30 a	ND<10 a	ND<10 a	49	110	ND<10	98 a	ND<10 a	ND<10	100	mg/L
DOC	13	3.6 a	17 a	7.8 a	21	25	3.6	2.5 a	1.2 a	0.89 a	9.1	6.1	1.0	1.2 a	0.90 a	2.4	12	mg/L
Ethane	4.4	2.5 a	ND<0.5 a	ND<0.5 a	5.4	ND<0.5	ND<0.5	ND<0.5 a	ND<0.5 a	ND<0.5 a	1.9	ND<0.5	ND<0.5	ND<0.5 a	ND<0.5 a	0.62	ND<0.5	µg/L
Ethene	ND<0.5	ND<0.5 a	ND<0.5 a	ND<0.5 a	ND<0.5	ND<0.5	ND<0.5	0.57 a	ND<0.5 a	ND< 0.5 a	ND<0.5	ND<0.5	ND<0.5	1.0 a	ND<0.5 a	ND<0.5	1.2	µg/L
Methane	1,500	280 a	12,000 a	21 a	1,900	6,800	17	1.3 a	9.7 a	2.1 a	2,900	2.5	ND<0.4	1.4 a	46 a	48	1,400	µg/L
Sulfide	0.38	ND<0.05 a	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	ND<0.05	ND<0.05 a	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	ND<0.05	ND<0.05 a	ND<0.05 a	ND<0.05	ND<0.05	mg/L
TDS	222	295 a	432 a	374 a	498	524	961	906 a	409 a	360 a	629	734	828	933 a	593 a	697	894	mg/L
TOC	13	3.6 a	17 a	7.7 a	20	24	4.0	2.5 a	1.3 a	0.91 a	9.7	6.1	0.92	1.2 a	0.93 a	2.8	11	mg/L
O_{18}/O_{16} Isotope	-5.55	--	--	-7.80	-8.28	--	-5.80	--	-8.47	--	-6.64	--	-5.94	--	-6.01	-6.04	--	$^0/_{00}$

Abbreviations and Notes:

µg/L = micrograms per liter - approximately equal to parts per billion = ppb
mg/L = milligrams per liter
$^0/_{00}$ = parts per mille (equivalent to parts per thousand)
(X) = Zone X
ft = measured in feet
BOD = Biological oxygen demand
COD = Chemical oxygen demand

TABLE 6

MONITORING WELL GROUNDWATER ANALYTICAL RESULTS:
EXPANDED ANALYTES/SAMPLED SEPTEMBER 21-22, 2009
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Analyte	*MW-1A (A)*	*MW-2A (A)*	*MW-3A (A)*	*MW-4A (A)*	*MW-6A (A)*	*MW-7A (A)*	*MW-1B (B)*	*MW-3B (B)*	*MW-4B (B)*	*MW-5B (B)*	*MW-6B (B)*	*MW-7B (B)*	*MW-1C (C)*	*MW-3C (C)*	*MW-4C (C)*	*MW-6C (C)*	*MW-7C (C)*	*Unit*

DOC = Dissolved organic carbon
TDS = Total dissolved solids
TOC = Total organic carbon
ND<50 = Not Detected above detection limit cited.
-- = Not available, not applicable, not analyzed, not measured
Substance (X) = Substance reported as X
* = water samples reported in mg calcium carbonate/L. Hydroxide, carbonate & bicarbonate alkalinity @ end-point of pH = 8.3 & 4.5 per SM2320B
a = Aqueous sample that contains greater than 1 vol. % sediment
O_{18}/O_{16} Isotope analysis by Laser Spectroscopy

TABLE 7

SOIL ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS AND LEAD
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Sample Depth (ft)*	*TPHss*	*TPHd*	*TPHmo*	*TPHnap*	*TPHg*	*Lead*	*Notes*
			←		*mg/kg*	→			
MW-1C @6.5	5/10/2004	6.5	<1.0	<1.0	<5.0	--	<1.0	--	
MW-1C @9.5	5/10/2004	9.5	340	60	<5.0	--	160	--	
MW-1C @14.5	5/10/2004	14.5	--	10	<5.0	--	6	--	
MW-1C @20	5/10/2004	20	<1.0	<1.0	<5.0	--	<1.0	--	
MW-3A @15	5/7/2004	15	26	180	9.2	--	11	--	
MW-3B-5	8/10/2009	5	<1.0	<1.0	<5.0	--	<1.0		
MW-3C-10	8/13/2009	10	<1.0	<1.0	<5.0	--	<1.0		
MW-3C-15	8/13/2009	15	<1.0	2.4	13	--	<1.0		
MW-5B @5	5/18/2004	5	<1.0	<1.0	<5.0	--	<1.0	--	
MW-5B @10	5/18/2004	10	<1.0	<1.0	<5.0	--	<1.0	--	
MW-5B @15	5/18/2004	15	390	42	<5.0	--	410	--	
MW-5B @20	5/18/2004	20	<1.0	<1.0	<5.0	--	<1.0	--	
MW-5B @24	5/18/2004	24	<1.0	<1.0	<5.0	--	<1.0	--	
MW-6C @5.5	5/11/2004	5.5	11	810	1800	--	6	--	
MW-6C @11	5/11/2004	11	68	18	<5.0	--	29	--	
MW-6C @16	5/11/2004	16	230	16	<5.0	--	100	--	
MW-6C @21	5/11/2004	21	<1.0	<1.0	<5.0	--	<1.0	--	
MW-7C-7	8/14/2009	7	360	22	<5.0	--	200		c
MW-7C-8.5	8/14/2009	8.5	590	440	<50	--	330		c
MW-7C-10	8/14/2009	10	140	25	<5.0	--	74		c
SB-1-3.5	11/25/2002	3.5	1.7	170	860	--	2.6a,b	37	
SB-1-7.5	11/25/2002	7.5	<1.0	32	140	--	<1.0	5.8	
SB-2-3.5	11/25/2002	3.5	<1.0	<1.0	<5.0	--	<1.0	3.9	
SB-2-11.5	11/25/2002	11.5	<1.0	<1.0	<5.0	--	<1.0	6.8	

TABLE 7

SOIL ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS AND LEAD
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Sample Depth (ft)*	*TPHss*	*TPHd*	*TPHmo*	*TPHnap*	*TPHg*	*Lead*	*Notes*
			←		*mg/kg*	→			
SB-3-7.5	11/25/2002	7.5	180	20	<5.0	--	190a	<3.0	
SB-3-11.5	11/25/2002	11.5	<1.0	<1.0	<5.0	--	<1.0	9.7	
SB-4-3.5	11/25/2002	3.5	<1.0	<1.0	<5.0	--	<1.0	3.1	
SB-4-7.5	11/25/2002	7.5	<1.0	2.1	15	--	<1.0	21	
SB-4-11.5	11/25/2002	11.5	3.6	4.8	5.9	--	4.0	3.9	
SB-5-7.5	11/25/2002	7.5	1,300	190	5	--	1,200a	4.2	
SB-5-11.5	11/25/2002	11.5	<1.0	<1.0	<5.0	--	<1.0	<3.0	
SB-7-3.5	11/25/2002	3.5	750	250	16	--	810a	8.5	
SB-7-7.5	11/25/2002	7.5	350	79	13	--	380a	6.1	
SB-7-17.5	11/25/2002	17.5	830	470	18	--	890a	6.6	
SB-8-3	11/25/2002	3.0	3,600	2,500	<500	--	3,500a	6.1	
SB-8-6	11/25/2002	6.0	6,600	2,900	<500	--	6,400a	7.5	
SB-8-9	11/25/2002	9.0	380	58	6.3	--	380a	7.5	
SB-9-6	11/25/2002	6.0	9.4	2.8	<5.0	--	9.5a	6.4	
SB-9-9	11/25/2002	9.0	<1.0	<1.0	<5.0	--	<1.0	6.0	
SB-10-3	11/25/2002	3.0	<1.0	<1.0	<5.0	--	<1.0	5.0	
SB-10-6	11/25/2002	6.0	140	70	<5.0	--	140a	6.4	
SB-10-9	11/25/2002	9.0	140	96	<5.0	--	180a	<3.0	
SB-10-12	11/25/2002	12.0	<1.0	<1.0	<5.0	--	<1.0	<3.0	
SB-11-7.5	11/25/2002	7.5	<1.0	<1.0	<5.0	--	<1.0	9.1	
SB-13 @6.0	1/5/2004	6	150	21	<5.0	--	140	--	
SB-13 @11.5	1/5/2004	11.5	260	41	<5.0	--	260	--	
						--		--	
SB-14A @7.5	1/9/2004	7.5	100	64	<5.0	--	210	--	
SB-14A @11.5	1/9/2004	11.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-15A @7.5	1/12/2004	7.5	820	190	9.3	--	1,500	--	

TABLE 7

SOIL ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS AND LEAD
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Sample Depth (ft)*	*TPHss*	*TPHd*	*TPHmo*	*TPHnap*	*TPHg*	*Lead*	*Notes*
			←		*mg/kg*	→			
SB-15A @11.5	1/12/2004	11.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-16A @7.5	1/12/2004	7.5	49	59	<5.0	--	90	--	
SB-16A @11.5	1/12/2004	11.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-17B @3.5	1/8/2004	3.5	<1.0	110	210	--	<1.0	--	
SB-17B @7.5	1/8/2004	7.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-17B @11.5	1/8/2004	11.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-17B @17.0	1/8/2004	17.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-17B @20	1/8/2004	20	<1.0	1	5.5	--	<1.0	--	
SB-18A @3.5	1/6/2004	3.5	<1.0	<1.0	<5.0	--	<1.0	--	
SB-18A @7.5	1/6/2004	7.5	310	230	<50	--	340	--	
SB-18A @11.5	1/6/2004	11.5	6	9	<5.0	--	6	--	
SB-18A @17	1/6/2004	17	1,600	850	<100	--	2,600	--	
SB-18B @17.5	1/6/2004	17.5	990	660	<50	--	1,000	--	
SB-18B @20	1/9/2004	20	<1.0	<1.0	<5.0	--	<1.0	--	
SB-21A @3	1/20/2004	3.0	<1.0	<1.0	<5.0	--	<1.0	--	
SB-21A @6	1/20/2004	6.0	590.0	220.0	<25	--	590.0	--	
SB-21A @9	1/20/2004	9.0	450.0	270.0	<25	--	470.0	--	
SB-22A/C @3	1/7/2004	3.0	<1.0	1.1	<5.0	--	<1.0	--	
SB-22A/C @6	1/7/2004	6.0	220.0	230.0	11.0	--	410.0	--	
SB-22A/C @9	1/7/2004	9.0	220.0	150.0	6.7	--	400.0	--	
SB-23 @3	1/6/2004	3.0	<1.0	<1.0	<5.0	--	<1.0	--	
SB-23 @6	1/6/2004	6.0	<1.0	<1.0	<5.0	--	<1.0	--	
SB-23 @9	1/6/2004	9.0	<1.0	<1.0	<5.0	--	<1.0	--	

TABLE 7

SOIL ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS AND LEAD
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Sample Depth (ft)*	*TPHss*	*TPHd*	*TPHmo*	*TPHnap*	*TPHg*	*Lead*	*Notes*
			←		*mg/kg*	→			
SB-23 @6	1/6/2004	6.0	<1.0	<1.0	<5.0	--	<1.0	--	
SB-23 @9	1/6/2004	9.0	<1.0	<1.0	<5.0	--	<1.0	--	
SB-24 @3	1/5/2004	3.0	1000	1300	<250	--	980	--	
SB-24 @6	1/5/2004	6.0	420	220	8.9	--	430	--	
SB-24 @9	1/5/2004	9.0	43	54	<5.0	--	43	--	
						--		--	
SB-26A @7.5 *	1/7/2004	7.5	220	150	6.8	--	240	--	
SB-26A @11.5 *	1/7/2004	11.5	98	67	<5.0	--	180	--	
SB-26-10 *	8/12/2009	10	360	78	<5.0	--	220		
SB-26-16 *	8/12/2009	16	1.4	<1.0	<5.0	--	<1.0		
SB-27-20	8/12/2009	20	<1.0	<1.0	<5.0	--	<1.0		
SB-27-24	8/12/2009	24	<1.0	<1.0	<5.0	--	<1.0		
Previous SCI Samples									
Tank 1 Bottom	2/25/2002	--	74	69	--	58	110	--	
Tank 2 Bottom	2/25/2002	--	280	34	--	230	440	--	
Tank 3 Bottom	2/25/2002	--	940	220	--	750	1,500	--	
Tank 4 Bottom	2/25/2002	--	1,000	12	--	830	1,600	--	
E End @ 6'	2/26/2002	6.0	1,400	220	--	1,100	2,200	--	
W End @ 6'	2/26/2002	6.0	1,800	390	--	1,500	2,900	--	
Pipe #1	2/26/2002	--	<0.99	68	--	<0.99	<0.99	--	
Pipe #2	2/26/2002	--	<0.95	6.8	--	<0.95	<0.95	--	
Tank 5 E End	2/13/2002	--	11,000	1,000	--	8,400	17,000	--	
Tank 5 W End	2/13/2002	--	8,400	1,800	--	6,200	13,000	--	
Tank 6 N Wall	3/7/2002	2.0	<0.98	53	--	<0.98	<0.98	--	
Tank 6 S Wall	3/7/2002	5.0	270	260	--	140	310	--	

TABLE 7

SOIL ANALYTICAL RESULTS: PETROLEUM HYDROCARBONS AND LEAD
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Sample Depth (ft)*	*TPHss*	*TPHd*	*TPHmo*	*TPHnap*	*TPHg*	*Lead*	*Notes*
			←		*mg/kg*	→			
Tank 6 E End	2/13/2002	--	300	670	--	240	470	--	
Tank 6 W End	2/13/2002	--	17,000	1,500	--	12,000	26,000	--	

Abbreviations and Methods:

mg/kg = Milligrams per kilogram
-- = Not sampled or not analyzed.
< n = Not Detected (ND) - Chemical not present at a concentration in excess of detection limit shown
TPHmo = Total petroleum hydrocarbons as motor oil by EPA Method 8015C with silica gel cleanup (C18-C36)
TPHd = Total petroleum hydrocarbons as diesel by EPA Method 8015C with silica gel cleanup (C10-C23)
TPHss = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8021B/8015Cm (C9-C12).
TPHg = Total petroleum hydrocarbons as gasoline by EPA Method 8021B/8015Cm (C6-C12).
TPHnap = Total petroleum hydrocarbons as naphtha by EPA Method 8015m/8020
Lead by EPA Method 6010C
a = Laboratory note: TPH pattern that does not appear to be derived from gasoline
b = Laboratory note: heavier gasoline range compounds are significant
c = Laboratory note: TPH pattern that does not appear to be derived from gasoline (stoddard solvent/mineral spirits)
* Borings B-26A and B-26 are two separate borings, errroneously labeled with the same number

TABLE 8

SOIL ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	Date Sampled	Depth (ft)	Benzene	Toulene	Ethylbenzene	Xylenes	MTBE	Tetrachloroethene	cis-1,2-Dichloroethene	Trichloroethene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	4-Isopropyl Toluene	n-Butylbenzene	Naphthalene	Styrene	Methylene Chloride	Acetone	2-Butanone (MEK)	4-methyl-2-pentanone(MIBK)	Vinyl Chloride	1, 2- Dichloropropane	Notes
			ug/kg																							
MW-1C @6.5	5/10/2004	6.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-1C @9.5	5/10/2004	9.5	<0.2	<0.2	<0.2	<0.2		<20	<20	<20	--	--	--	--	--	--	--	--	--	<20	--	--	--	<20	<20	
MW-1C @14.5	5/10/2004	14.5	<5.0	<5.0	<5.0	5.3		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-1C @20	5/10/2004	20	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-3A @15	5/7/2004	15	<5.0	<5.0	<5.0	<5.0		<100	<100	<100	--	--	--	--	--	--	--	--	--	<100	--	--	--	<100	<100	
MW-3B-5	8/10/2009	5	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
MW-3C-10	8/13/2009	10	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
MW-3C-15	8/13/2009	15	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
MW-5B @5	5/18/2004	5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-5B @10	5/18/2004	10	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-5B @15	5/18/2004	15	<100	<100	<100	1400		<20	<20	<20	--	--	--	--	--	--	--	--	--	<20	--	--	--	<20	<20	
MW-5B @20	5/18/2004	20	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-5B @24	5/18/2004	24	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-6C @5.5	5/11/2004	5.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-6C @11	5/11/2004	11	<25	<25	<25	<25		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-6C @16	5/11/2004	16	<50	<50	<50	<50		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-6C @21	5/11/2004	21	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	
MW-7C-7	8/14/2009	7	<170	<170	<170	<170	<1,700	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
MW-7C-8.5	8/14/2009	8.5	<100	<100	<100	1000	<1,000	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
MW-7C-10	8/14/2009	10	<100	<100	<100	<100	<1,000	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
SB-1-3.5	11/25/2002	3.5	<5.0	37	16	120		44	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	9.6	36	<5.0	<5.0	<50	<10	<5.0	ND		
SB-1-7.5	11/25/2002	7.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	150	<5.0	<5.0	<50	<10	<5.0	ND		
SB-2-3.5	11/25/2002	3.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-2-11.5	11/25/2002	11.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-3-7.5	11/25/2002	7.5	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<1,000	<200	<100	ND		
SB-3-11.5	11/25/2002	11.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-4-3.5	11/25/2002	3.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-4-7.5	11/25/2002	7.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-4-11.5	11/25/2002	11.5	<5.0	<5.0	7.4	11		<5.0	<5.0	<5.0	7.8	33	79	160	9.5	<5.0	<5.0	59	<5.0	<5.0	<50	<10	<5.0	ND		
SB-5-7.5	11/25/2002	7.5	<200	<200	<200	<200		<200	<200	<200	360	970	300	<200	1,700	260	1,600	<200	<200	<200	<2,000	<400	<200	ND		
SB-5-11.5	11/25/2002	11.5	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND		
SB-7-3.5	11/25/2002	3.5	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	<100	200	<100	<100	<100	<1,000	<200	<100	ND		
SB-7-7.5	11/25/2002	7.5	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	130	<100	<100	<100	<100	<1,000	<200	<100	ND		
SB-7-17.5	11/25/2002	17.5	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	470	<100	<100	<100	<100	<1,000	<200	<100	ND		
SB-8-3	11/25/2002	3.0	<500	<500	<500	<500		<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<5,000	<1,000	<500	ND		
SB-8-6	11/25/2002	6.0	<1,000	<1,000	<1,000	<1,000		<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<10,000	<2,000	<1,000	ND		
SB-8-9	11/25/2002	9.0	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100	470	<100	<100	<100	<100	<1,000	<200	<100	ND		

TABLE 8

SOIL ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	Date Sampled	Depth (ft)	Benzene	Toulene	Ethylbenzene	Xylenes	MTBE	Tetrachloroethene	cis-1,2-Dichloroethene	Trichloroethene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	4-Isopropyl Toluene	n-Butylbenzene	Naphthalene	Styrene	Methylene Chloride	Acetone	2-Butanone (MEK)	4-methyl-2-pentanone(MIBK)	Vinyl Chloride	1, 2- Dichloropropane	Notes
			ug/kg																							
SB-9-6	11/25/2002	6.0	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<10	<100	<20	<10	ND			
SB-9-9	11/25/2002	9.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND			
SB-10-3	11/25/2002	3.0	<5.0	<5.0	<5.0	<5.0	56	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND			
SB-10-6	11/25/2002	6.0	<50	<50	<50	<50	<50	<50	<50	<50	100	<50	<50	260	71	260	<50	<50	<50	<500	<100	<50	ND			
SB-10-9	11/25/2002	9.0	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<500	<5,000	<1,000	<500	ND			
SB-10-12	11/25/2002	12.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	18			
SB-11-7.5	11/25/2002	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<10	<5.0	ND			
SB-13 @6.0	1/5/2004	6	<50	<50	<50	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-13 @11.5	1/5/2004	11.5	<100	<100	<100	<100	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
										--	--	--	--	--	--	--	--	--								
SB-14A @7.5	1/9/2004	7.5	640	390	1800	5000	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-14A @11.5	1/9/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-15A @7.5	1/12/2004	7.5	<1000	<1000	<1000	2400	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-15A @11.5	1/12/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-16A @7.5	1/12/2004	7.5	<50	<50	69	110	<100	<100	<100	--	--	--	--	--	--	--	--	--	<100	--	--	--	<100	<100		
SB-16A @11.5	1/12/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-17B @3.5	1/8/2004	3.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-17B @7.5	1/8/2004	7.5	<5.0	<5.0	<5.0	<5.0	<5.0	8.3	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-17B @11.5	1/8/2004	11.5	<5.0	<5.0	<5.0	<5.0	<5.0	180	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	8.3	7.4		
SB-17B @17.0	1/8/2004	17.5	<5.0	<5.0	<5.0	<5.0	<5.0	170	<10	--	--	--	--	--	--	--	--	--	<10	--	--	--	<10	<10		
SB-17B @20	1/8/2004	20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-18A @3.5	1/6/2004	3.5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-18A @7.5	1/6/2004	7.5	<200	<200	310	1600	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-18A @11.5	1/6/2004	11.5	<5.0	<5.0	<5.0	15	<50	<50	<50	--	--	--	--	--	--	--	--	--	<50	--	--	--	<50	<50		
SB-18A @17	1/6/2004	17	<200	<200	1100	6500	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-18B @17.5	1/6/2004	17.5	<250	<250	570	2900	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-18B @20	1/9/2004	20	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-21A @3	1/20/2004	3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-21A @6	1/20/2004	6.0	<100	<100	<100	<100	<100	<100	<100	--	--	--	--	--	--	--	--	--	<100	--	--	--	<100	<100		
SB-21A @9	1/20/2004	9.0	<200	<200	230	<200	<200	<200	<200	--	--	--	--	--	--	--	--	--	<200	--	--	--	<200	<200		
SB-22A/C @3	1/7/2004	3.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-22A/C @6	1/7/2004	6.0	<200	<200	<200	670	<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400		
SB-22A/C @9	1/7/2004	9.0	<200	<200	<200	770	<100	<100	<100	--	--	--	--	--	--	--	--	--	<100	--	--	--	<100	<100		
SB-23 @3	1/6/2004	3.0	<5.0	<5.0	<5.0	<5.0	13	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-23 @6	1/6/2004	6.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		
SB-23 @9	1/6/2004	9.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0		

TABLE 8

SOIL ANALYTICAL RESULTS: VOLATILE ORGANIC COMPOUNDS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	Date Sampled	Depth (ft)	Benzene	Toulene	Ethylbenzene	Xylenes	MTBE	Tetrachloroethene	cis-1,2-Dichloroethene	Trichloroethene	Isopropylbenzene (Cumene)	n-Propylbenzene	1,3,5-Trimethylbenzene	1,2,4-Trimethylbenzene	sec-Butylbenzene	4-Isopropyl Toluene	n-Butylbenzene	Naphthalene	Styrene	Methylene Chloride	Acetone	2-Butanone (MEK)	4-methyl-2-pentanone(MIBK)	Vinyl Chloride	1, 2- Dichloropropane	Notes
			ug/kg																							
SB-24 @3	1/5/2004	3.0	<500	<500	<500	<500		<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400	
SB-24 @6	1/5/2004	6.0	<200	<200	240	<200		<400	<400	<400	--	--	--	--	--	--	--	--	--	<400	--	--	--	<400	<400	
SB-24 @9	1/5/2004	9.0	<50	<50	<50	<50		<50	<50	<50	--	--	--	--	--	--	--	--	--	<50	--	--	--	<50	<50	
SB-26A @7.5	1/7/2004	7.5	<200	<200	<200	<200		<100	<100	<100	--	--	--	--	--	--	--	--	--	<100	--	--	--	<100	<100	
SB-26A @11.5	1/7/2004	11.5	<200	<200	<200	330		<50	<50	<50	--	--	--	--	--	--	--	--	--	<50	--	--	--	<50	<50	
SB-26-10	8/12/2009	10	<250	<250	<250	<250	<250	<20	<20	<20	--	--	--	--	--	--	--	--	--	<20	--	--	--	<20	<20 <20	Other VOCs ND
SB-26-16	8/12/2009	16	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
SB-27-20	8/12/2009	20	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
SB-27-24	8/12/2009	24	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	--	--	--	--	--	--	--	--	--	<5.0	--	--	--	<5.0	<5.0	Other VOCs ND
Previous SCI Samples																										
Tank 1 Bottom	2/25/2002	--	<130	<130	<130	<130		<130	<130	<130	<130	<130	<130	230	<130	<130	<130	<130	<130	<130	<130	<130	<130			
Tank 2 Bottom	2/25/2002	--	<250	<250	<250	<250		<250	<250	<250	<250	<250	300	680	290	370	550	<250	<250	<250	<250	<250	<250			
Tank 3 Bottom	2/25/2002	--	<250	<250	<250	<250		310	<250	<250	<250	570	680	1,600	960	930	1,500	<250	<250	<250	<250	<250	<250			
Tank 4 Bottom	2/25/2002	--	<250	<250	<250	<250		<250	<250	<250	740	1,700	<250	840	2,100	940	1,900	660	<250	<250	<250	<250	<250			
E End @ 6'	2/25/2002	6.0	<250	<250	<250	950		<250	<250	<250	1,300	3,200	<250	<250	1,700	920	2,400	<250	<250	<250	<250	<250	<250			
W End @ 6'	2/25/2002	6.0	<250	<250	<250	<250		<250	<250	<250	520	1,300	1,100	<250	1,700	890	1,700	<250	<250	<250	<250	<250	<250			
Pipe #1	2/25/2002	--	<5.0	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0			
Pipe #2	2/25/2002	--	<4.9	<4.9	<4.9	<4.9		<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9			
Tank 5 E End	3/7/2002	--	<2,000	<2,000	8,600	<2,000		<2,000	<2,000	<2,000	5,600	16,000	25,000	63,000	13,000	9,900	14,000	<2,000	<2,000	<2,000	<2,000	<2,000	<2,000			
Tank 5 W End	3/7/2002	--	<1,700	<1,700	5,900	<1,700		<1,700	<1,700	<1,700	4,100	11,000	17,000	47,000	9,600	8,500	1,000	<1,700	<1,700	<1,700	<1,700	<1,700	<1,700			
Tank 6 N Wall	3/7/2002	2.0	<4.7	<4.7	<4.7	<4.7		<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7	<4.7			
Tank 6 S Wall	3/7/2002	5.0	<4.8	<4.8	<4.8	<4.8		<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8	<4.8			
Tank 6 E End	3/7/2002	--	<420	<420	<420	<420		<420	<420	<420	<420	<420	1,600	2,100	<420	510	<420	<420	<420	<420	<420	<420	<420			
Tank 6 W End	3/7/2002	--	<3,100	<3,100	<3,100	<3,100		<3,100	<3,100	<3,100	8,500	24,000	46,000	100,000	30,000	27,000	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100	<3,100			

Abbreviations and Methods:

ug/kg = Micrograms per kilogram

-- = Not sampled or not analyzed.

< n = Not Detected (ND) - Chemical not present at a concentration in excess of detection limit shown

ND = None detected above laboratory reporting limit, see laboratory report for individual reporting limits.

Volatile organic compounds by EPA Method 8260B (8010)

TABLE 9

SOIL VAPOR ANALYTICAL DATA
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Sample ID	*Date Sampled*	*Depth (ft)*	*PCE (ug/m^3)*	*TCE (ug/m^3)*	*TPHss (ug/m^3)*	*TPHg (ug/m^3)*	*Benzene (ug/m^3)*	*Toluene (ug/m^3)*	*Ethylbenzene (ug/m^3)*	*m,p-Xylene (ug/m^3)*	*o-Xylene (ug/m^3)*	*cis-1,2-DCE (ug/m3)*	*trans-1,2-DCE (ug/m3)*	*Vinyl Chloride (ug/m3)*	*Oxygen (%)*	*Methane (%)*	*Carbon Dioxide (%)*	*Helium (%)*
VW-1	9/17/2009	5	<8,100	<6,400	>730,000	14,000,000	<3,800	<4,500	<5,200	<5,200	<5,200	<4,700	<4,700	<3,000	1.3	0.39	16	<0.12
	12/9/2009	**5**	**<970**	**<770**	**>1,900,000**	**6,500,000**	**<460**	**<540**	**<620**	**<620**	**<620**	**<570**	**<570**	**<360**	**1.3**	**0.1**	**15**	**<0.022**
VW-2	9/17/2009	5	620	<84	650,000	460,000	<50	<58	<68	<68	<68	<62	<62	<40	11	0.089	8.8	<0.12
	12/9/2009	**5**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
VW-3	9/17/2009	5	<8,100	<6,400	>1,100,000	12,000,000	<3,800	<4,500	<5,200	<5,200	<5,200	<4,700	<4,700	<3,000	1.2	3.2	17	<0.12
	12/9/2009	**5**	**<170**	**<140**	**--**	**6,500,000**	**<81**	**<95**	**<110**	**<110**	**110**	**<100**	**<100**	**<65**	**1.4**	**2.1**	**15**	**<0.13**
VW-4	9/17/2009	5	170	<6.5	11,000	3,300	<3.9	<4.6	<5.2	<5.2	<5.2	<4.8	<4.8	<3.1	16	0.0015	5.2	<0.12
	12/9/2009	**5**	**100**	**<6.0**	**--**	**1,100**	**<3.6**	**<4.2**	**<4.9**	**<4.9**	**<4.9**	**<4.4**	**<4.4**	**<2.9**	**16**	**<0.00022**	**4.9**	**<0.11**
VW-5	9/17/2009	4.5	<2,800	<2,200	>1,100,000	12,000,000	<1,300	<1,600	<1,800	<1,800	<1,800	<1,600	<1,600	<1,000	1.3	10	11	<0.12
	12/9/2009	**4.5**	**<750**	**<590**	**>1,200,000**	**7,400,000**	**<350**	**<410**	**<480**	**<480**	**<480**	**<440**	**<440**	**<280**	**1.2**	**8.3**	**8**	**<0.11**
VW-6	9/17/2009	5	<8.6	<6.8	9,300	51,000	<4.0	<4.8	<5.5	<5.5	<5.5	<5.0	<5.0	<3.2	4.6	0.013	17	<0.13
	12/9/2009	**5**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
VW-7	9/17/2009	4.3	13	<6.8	<3,300	940	<4.0	<4.8	<5.5	<5.5	<5.5	<5.0	<5.0	<3.2	3.8	<0.00025	13	<0.13
	12/9/2009	**4.3**	**<7.6**	**<6.0**	**--**	**1,800**	**<3.6**	**<4.2**	**<4.9**	**<4.9**	**<4.9**	**<4.4**	**<4.4**	**<2.9**	**1.3**	**2.1**	**10**	**<0.11**
VW-8	9/17/2009	5	<81	<64	21,000	100,000	<38	<45	<52	<52	<52	64	<47	1,600	1.2	1.5	17	<0.12
	12/9/2009	**5**	**<16**	**<12**	**--**	**38,000**	**<7.4**	**<8.8**	**<10**	**<10**	**<10**	**46**	**<9.2**	**1,300**	**1.4**	**0.79**	**11**	**<0.12**
VW-9	9/17/2009	5	<76	<60	73,000	520,000	<36	54	<49	51	<49	<44	<44	<29	2.5	9.5	7.5	<0.11
	12/9/2009	**5**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**	**--**
Duplicate Samples																		
VW-4-Dup (lab)	9/24/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	16	0.0015	5.2	<0.12
VW-7-Dup (field)	9/17/2009	5	12	<6.8	<3,300	940	<4.0	<4.8	<5.5	<5.5	<5.5	<5.0	<5.0	<3.2	4.0	<0.00025	13	<0.13
VW-8-Dup (lab)	9/17/2009	--	<160	<130	--	110,000	<76	<90	<100	<100	<100	<94	<94	1,800	--	--	--	--
VW-9-Dup (lab)	9/24/2009	--	--	--	--	--	--	--	--	--	--	--	--	--	2.5	9.6	7.5	<0.11

Abbreviations and Analyses:

<n = Not dectected (ND) above laboratory detection limit, n.
>n = Compound present at concentrations exceeding instrument calibration range, n.
ug/m^3 = Microgram per cubic meter.
% = Percent
-- = Not Analyzed, Not Avaliable
ft = Measured in feet
TPHss by EPA Method TO-17
TPHg by EPA Method TO-15 GC/MS
Benzene, Toluene, Ethylbenzene, m,p&o-Xylenes and five HVOCs by modified EPA Method TO-15 GC/MS
Oxygen, Methane, Carbon Dioxide, Helium by ASTM D-1946

TABLE 10

SUMMARY OF RESULTS
OF
PRODUCT SAMPLES FROM TANKS
JOHN NADY
1137-1167 65TH STREET
OAKLAND, CALIFORNIA

Ports	Date Sampled	Gasoline Range	Naphtha Range	Diesel Range	Benzene	Toulene	Ethylbenzene	Xylenes	PCE	TCE	cis-1,2-DCE	Cumene	Propylbenzene	Mesitylene	1,2,4-Trimethylbenzene	sec-Butylbenzene	para-Isopropyl Toluene	n-buytlbenzene	Naphthalene	Styrene	MC	Acetone	MEK	MIBK
		Petroleum Hydrocarbons mg/L			Volatile Organic Compounds µg/L																			
Exterior Tanks																								
1	9/13/2001	130,000,000	59,000,000	280,000,000 *	2,400	24,000	74,000	730,000	42,000	550	170	170,000	210,000	470,000	470,000	140,000	140,000	130,000	10,000	<1,300	<5,000	<5,000	<2,500	<2,500
2	9/13/2001	7,700	3,600	<390,000 *	18	25	39	600	<13	<13	<13	<130	<130	360	790	<130	<130	<130	<130	<130	<500	<500	<250	<250
3	9/13/2001	8,000	3,700	<400,000 *	<13	17	28	540	<13	<13	<13	<130	<130	380	670	<130	<130	<130	<130	<130	720	<500	<250	<250
4	10/23/2001	3,800,000	2,100,000	2,300,000 *	<1.7	23	62	840	5.3	3.0	2.4	53	82	400	1,800	<17	23	18	<17	<17	<67	130	<33	<33
Interior Tanks																								
5	10/23/2001	5,100	2,500	19,000 *	<2.5	14	23	250	3.3	<2.5	<2.5	<25	40	150	400	<25	<25	<25	<25	300	<100	810	270	<50
6	10/23/2001	81,000,000	44,000,000	91,000 *	<3.1	3.7	4.5	161	<3.1	<3.1	15	<31	<31	130	270	<31	<31	<31	<31	<31	<130	520	180	64

Abbreviations and Notes:
mg/L = micrograms per liter
µg/L = micrograms per liter
<n = Not Detected above detection limit cited (n represents the reported detection limit)
--- = Not available, not analyzed, or does not apply.
PCE = Tetrachloroethene
cis-1,2-DCE = cis-1,2-Dichloroethene
TCE = Trichloroethene
Cumene = Isopropylbenzene
Mesitylene = 1,3,5-Trimethylbenzene
MC = Methylene Chloride
MEK = 2-Butanone
MIBK = 4-methyl-2-pentanone

* = Using Silica gel cleanup
Only VOCs detected are listed

APPENDIX A

CORRESPONDENCE

ALAMEDA COUNTY
HEALTH CARE SERVICES
AGENCY
DAVID J. KEARS, Agency Director

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

September 3, 2008

Mr. John Nady
Nady Systems
11 Glen Alpine Road
Piedmont, CA 94611

Subject: Fuel Leak Case No. RO0000082 and Geotracker Global ID T0600138389, Nady System Inc., 1137 65th St., Oakland, CA 94608

Dear Mr. Nady:

Alameda County Environmental Health (ACEH) staff has reviewed the *Additional Site Characterization Work Plan* and the *Groundwater Monitoring Work Plan* both dated July 1, 2008 and submitted by Conestoga-Rovers & Associates (CRA). The work plans propose additional membrane interface probe (MIP), cone penetrometer testing (CPT), soil vapor sampling, monitoring wells installation, groundwater data logging and geochemical parameter analysis as requested in the meeting held with the State Water Resources Control Board, ACEH, CRA and you. In general we concur with the work proposed. However, we request that you incorporate the technical comments below.

The proposed work scope may be implemented provided that the modifications requested in the technical comments below are addressed and incorporated during field implementation. Submission of a revised work plan is not required.

Please provide 72-hour hour advance written notification to both me and Dennis Parfitt (e-mail preferred) prior to the start of field activities

TECHNICAL COMMENTS

1. **Soil Vapor Sampling.** In addition to the analytes proposed in the work plan, please analyze soil vapor for oxygen and carbon dioxide as specified in the DTSC/CARWQCB, LA Region joint Advisory for Active Soil Gas Investigations. CRA's standard operating procedures (SOP) for Shallow Soil Vapor Point Method for Soil Vapor Sampling indicate that a pre-hydrated granular bentonite is placed on a 2 to 12-inch layer of unhydrated bentonite chips. The thickness of the pre-hydrated layer is not specified in this SOP. Please e-mail me this information. Also, the DTSC further requires at least a 12-inch layer of dry granular bentonite above the sand pack. Please explain this deviation prior to vapor point installation.

TECHNICAL REPORT REQUEST

Please submit technical reports to Alameda County Environmental Health (Attention: Barbara Jakub), according to the following schedule:

- **January 5, 2008** – Soil and Water Investigation Report
- **January 15, 2008** – Fourth Quarter Groundwater Monitoring Report
- **April 15, 2008** – First Quarter Groundwater Monitoring Report
- **July 15, 2008** – Second Quarter Groundwater Monitoring Report
- **October 15, 2008** – Third Quarter Groundwater Monitoring Report

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) Geotracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the Geotracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in Geotracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.swrcb.ca.gov/ust/electronic_submittal/report_rqmts.shtml.

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering

evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to $10,000 per day for each day of violation.

If you have any questions, please call me at (510) 639-1287 or send me an electronic mail message at barbara.jakub@acgov.org.

Sincerely,

Barbara J Jakub

Barbara Jakub, P.G.
Hazardous Materials Specialist

Enclosure: ACEH Electronic Report Upload (ftp) Instructions

cc: Mr Frederick Schrag, Esq. c/o John Nady, 6701 Shellmound St.,, Emeryville, CA 94608
Mr. Mark Jonas, CRA, 5900 Hollis St., Suite A, Emeryville, CA 94608
Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa Plaza, Ste. 3341, Oakland, CA 94612-2032
Donna Drogos, ACEH
Barbara Jakub, ACEH
File

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	**ISSUE DATE:** July 5, 2005
	REVISION DATE: December 16, 2005
	PREVIOUS REVISIONS: October 31, 2005
SECTION: Miscellaneous Administrative Topics & Procedures	**SUBJECT:** Electronic Report Upload (ftp) Instructions

Effective **January 31, 2006**, the Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- Entire report including cover letter must be submitted to the ftp site as **a single portable document format (PDF) with no password protection.** (Please do not submit reports as attachments to electronic mail.)
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- Signature pages and perjury statements **must** be included and have either original or electronic signature.
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:
  RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Additional Recommendations

- A separate copy of the tables in the document should be submitted by e-mail to your Caseworker in **Excel** format. These are for use by assigned Caseworker only.

Submission Instructions

1) Obtain User Name and Password:
   a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
      i) Send an e-mail to dehloptoxic@acgov.org
         or
      ii) Send a fax on company letterhead to (510) 337-9335, to the attention of Alicia Lam-Finneke.
   b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses,** and the **Case Numbers (RO# available in Geotracker) you will be posting for**.

2) Upload Files to the ftp Site
   a) Using Internet Explorer (IE4+), go to ftp://alcoftp1.acgov.org
      (i) Note: Netscape and Firefox browsers will not open the FTP site.
   b) Click on File, then on Login As.
   c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
   d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
   e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.

3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
   a) Send email to dehloptoxic@acgov.org notify us that you have placed a report on our ftp site.
   b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name at acgov.org. (e.g., firstname.lastname@acgov.org)
   c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload)

CONESTOGA-ROVERS
& ASSOCIATES

5900 Hollis Street, Suite A, Emeryville, California 94608
Telephone: 510-420-0700 Facsimile: 510-420-9170
www.CRAworld.com

June 17, 2009

Reference No. 521000

Ms. Barbara Jakub
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502

Dear Ms. Jakub:

Re: Additional Site Assessment – Revised Proposed Boring Locations
1137-1167 65th Street
Oakland, California 94608
Agency Case No. RO0000082

On behalf of Mr. John Nady, Conestoga-Rovers & Associates (CRA) is submitting a revised figure illustrating new proposed boring locations. After reviewing the correspondence from Mr. David Benaroya Helfant, dated June 4, 2009, CRA believes the most practical action is to move the proposed borings from the property at 1172 Ocean Avenue to a public right-of-way on Ocean Avenue. The attached figure presents the proposed boring locations. We'll need your authorization to approve this modification to the original scope of work.

If you have any questions, please call me at (510) 420-3307.

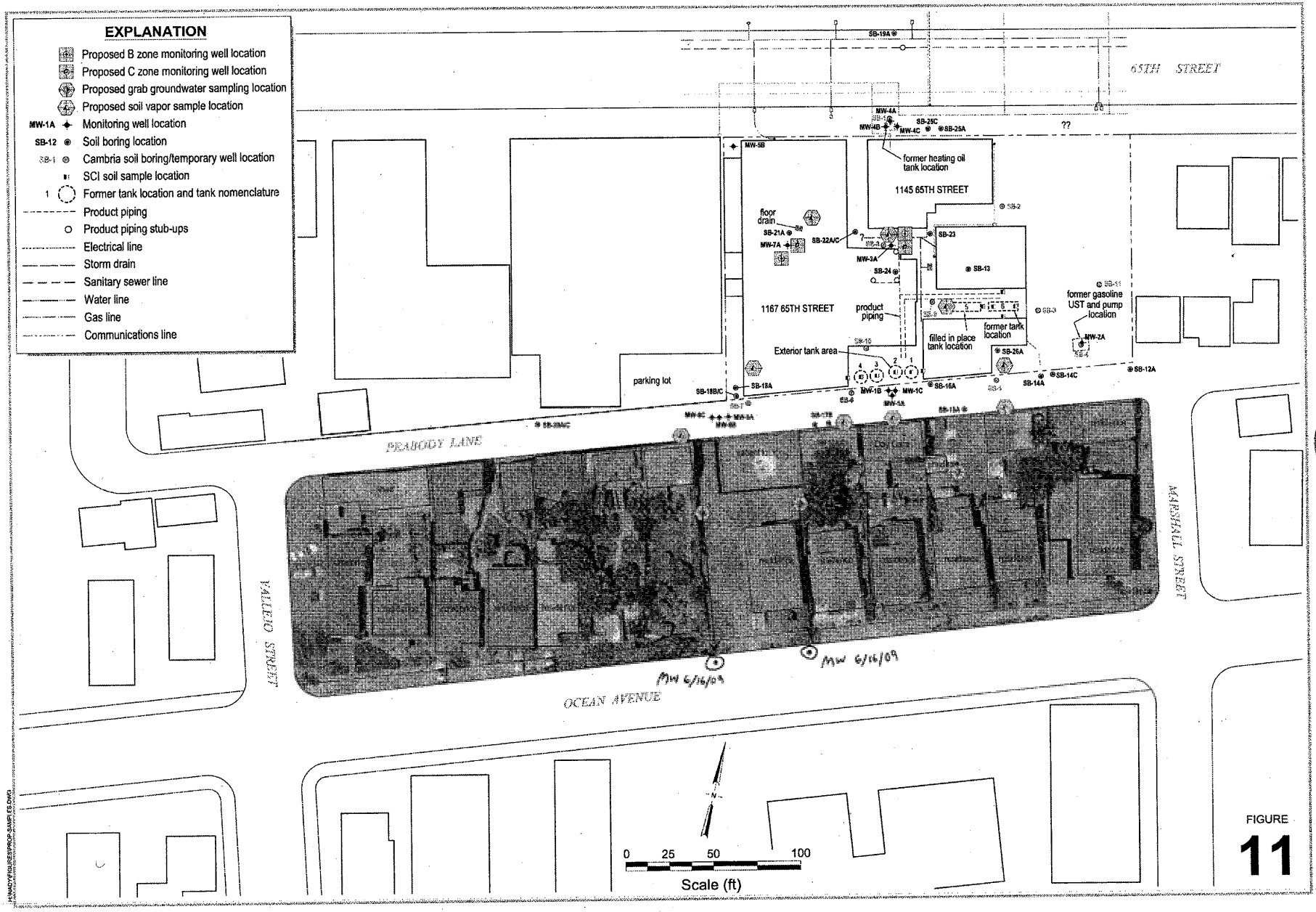
Yours truly,

CONESTOGA-ROVERS & ASSOCIATES

Mark Jonas, P.G.

MW/aa/5
Encl.

c.c.: Mr. Frederic Schrag



Proposed Sample Locations Map

CONESTOGA-ROVERS & ASSOCIATES

1137 - 1167 65th Street
Oakland, California

FIGURE
11

K:\NAD\YFIGURES\PROP-SAMPLES.DWG

Jonas, Mark

From: Jakub, Barbara, Env. Health [barbara.jakub@acgov.org]
Sent: Tuesday, June 30, 2009 1:12 PM
To: Jonas, Mark
Cc: Schrag@nady.com; Werner, Michael
Subject: RE: Request Authorization to Adjust Boring Location - Nady 521000, RO0000082

Given the difficulty that you have had in obtaining access to this property, your request to move these two borings offsite is granted.
Regards,
Barb Jakub

From: Jonas, Mark [mailto:mjonas@craworld.com]
Sent: Tuesday, June 30, 2009 11:06 AM
To: Jakub, Barbara, Env. Health
Cc: Schrag@nady.com; Werner, Michael
Subject: Request Authorization to Adjust Boring Location - Nady 521000, RO0000082

Dear Barbara:
Following up on our June 17th letter (attached) requesting your authorization to adjust the boring location off a private property and onto a parking lane/sidewalk along Ocean Avenue. Please e-mail your authorization or give me a call if you would like to discuss this issue further.

This is one of the final issues before we can perform the field work, except for approximately two weeks for the excavation permit and drilling permits.

As always, thank you for your time.

Sincerely,
Mark Jonas
Mark Jonas, P.G.
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608
510/420-3307 direct
510/420-9170 fax

www.CRAworld.com

Jonas, Mark

From: Jonas, Mark
Sent: Thursday, August 06, 2009 4:43 PM
To: Barbara Jakub (Barbara.Jakub@acgov.org)
Cc: Frederic Schrag (Schrag@nady.com); Bostick, John; Hee, Calvin; Evans, Charlotte
Subject: Mod Soil Vapor Probe SOP - Nady 521000, RO0000082
Attachments: SOP Soil Vapor Point Installation & Sampling (2009-8-6).pdf; 521000 Letter ACEH 2008-9-3 - Nady.pdf

Dear Barbara:
In response to your attached letter, we have modified the SOP for soil vapor probe installation to include 12 inches of dry bentonite.

As you are aware, we start field work this Monday, August 10, 2009. Please contact me if you plan to come by so I can meet you on-site.

Sincerely,

Mark Jonas

Mark Jonas, P.G.
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608
510/420-3307 direct
510/420-9170 fax

www.CRAworld.com

Barb Jakub

From: Jonas, Mark [mailto:mjonas@craworld.com]
Sent: Friday, August 28, 2009 10:55 AM
To: Jakub, Barbara, Env. Health
Cc: Hee, Calvin; Fong, Bryan; Schrag@nady.com
Subject: Additional Soil Gas Leak Detection Analytes - Nady 521000, RO0000082

Dear Barbara:
Our July 1, 2008 *Additional Site Characterization Work Plan* recommended "Butane, Isobutane, Propane (Method TO-15, TIC) - For leak detection." Because of interference issues we have had with these compounds, we currently use helium. We would like your approval to add helium (ASTM D-1946) as an additional leak detection compound. Do we have your approval to add helium to the list of soil gas analytes?

Also, the "Advisory – Active Soil Gas Investigations," (Department of Toxic Substances Control and California Regional Water Quality Control Board) recommends analyzing for fixed gases O2, CO2, and methane by ASTM D-1946. We know other sites where ACEH have required these analytes. Do you want us to also analyze for these analytes?

We plan to sample the soil gas probes next week.

Sincerely,
Mark Jonas

Mark Jonas, P.G.
Conestoga-Rovers & Associates, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608
510/420-3307 direct
510/420-9170 fax

www.CRAworld.com

Jonas, Mark

From: Jonas, Mark
Sent: Thursday, September 17, 2009 9:14 AM
To: 'Jakub, Barbara, Env. Health'
Cc: Hee, Calvin; Fong, Bryan
Subject: RE: Additional Soil Gas Leak Detection Analytes - Nady 521000, RO0000082

Dear Barbara:

We are collecting soil gas samples at the Nady site today (9-17-09). We have modified the list of analytes per your e-mail below. We are also using TO-17 to run TPHss, as recommended by the laboratory.

Table 6-1
Soil Gas Analysis, Sampling Containers, Preservatives, Detection Limits, and Holding Times

Analysis and Method	Sampling Containers	Preservatives	Detection Limit (ug/m^3)	Holding Times
TPHss (Method TO-17)	Summa Canister	None	300	30 days
TPHg (Method TO-15)	Summa Canister	None	100	30 days
Benzene, Ethylbenzene, Toluene, Xylenes (Method TO-15)	Summa Canister	None	2, 2, 2, 2	30 days
PCE, TCE, cis-1,2-DCE, trans-1,2-DCE, VC (Method TO-15)	Summa Canister	None	varies	30 days
Helium, O_2, CO_2, Methane (ASTM D-1946)	Summa Canister	None		

Please call me on my mobile phone if you would like to discuss the soil gas sampling event. Bryan Fong (CRA, 510/385-0509 m.) is my field manager for this event. If you would like to come see soil gas sampling, please contact me on my mobile phone and Bryan.

We hope to include the soil gas results in the Additional Site Characterization Report.

Sincerely,
Mark Jonas
Mark Jonas, P.G.
Conestoga-Rovers & Associates, Inc.
510/420-3307 direct
510/385-0022 mobile

www.CRAworld.com

From: Jakub, Barbara, Env. Health [mailto:barbara.jakub@acgov.org]
Sent: Friday, August 28, 2009 11:20 AM
To: Jonas, Mark
Cc: Hee, Calvin; Fong, Bryan; Schrag@nady.com
Subject: RE: Additional Soil Gas Leak Detection Analytes - Nady 521000, RO0000082

Dear Mark,
ACEH prefers that you use helium as your tracer gas. Please use and analyze for helium as well as O2, CO2 and methane as per the DTSC advisory.
Regards,

Foss, Bob (Robert)

From: Foss, Bob (Robert)
Sent: Monday, December 07, 2009 2:26 PM
To: 'Jakub, Barbara, Env. Health'
Cc: 'schrag@nady.com'; Fong, Bryan
Subject: Planned Vapor Probe Sampling - John Nady site, Fuel Leak Case No. RO0000082 (1137-1167 65th St, Oakland)

Barb:

Per our conversation this afternoon and at your request, I am replying to the email below confirming that as long as we do not receive additional precipitation between now and Weds morning (12/09), we will still plan to sample the vapor probes at the subject site.

This email will also confirm ACEH's concurrence with this additional activity associated with the "Additional Site Characterization" investigation conducted in August/September of this year.

As we discussed, please feel free to visit the site during this work on Wednesday, December 09.

Robert C. Foss, P.G.
Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Suite A
Emeryville, CA 94608
(510) 420-3348 office
(925) 413-8707 cell
(510) 420-9170 fax

From: Jakub, Barbara, Env. Health [mailto:barbara.jakub@acgov.org]
Sent: Tuesday, November 24, 2009 9:00 AM
To: Foss, Bob (Robert)
Subject: RE: Change in Consultant PM for John Nady site, Fuel Leak Case No. RO0000082 (1137-1167 65th St, Oakland)

That sounds fine. I will try to make it to the field event. Thanks for the notice. Please let me know what time it will be and if the date changes.
Regards,
Barb Jakub

From: Foss, Bob (Robert) [mailto:bfoss@craworld.com]
Sent: Monday, November 23, 2009 10:24 AM
To: Jakub, Barbara, Env. Health
Subject: Change in Consultant PM for John Nady site, Fuel Leak Case No. RO0000082 (1137-1167 65th St, Oakland)

Barb:

Per my voice message to you, I am now the PM for the Nady site at the address listed above. Also, per my message, it is our intention to resample and analyze the samples from the nine vapor probes installed during the Additional Site Characterization field work, conducted in August.

We wish to confirm/revise the reported high vapor concentrations from the original sampling event. On the voice message I stated that this is scheduled for December 9. We will push Air Toxics, the vapor lab, to get the analytic report back to us rapidly as we want to get this report submitted to you by early January.

Please let me know if you have any questions or comments, and I will try again to contact you this week, and it now successful, then next week to discuss this further.
Hope you are taking this week off. We'll talk to you soon!

Bob

Robert C. Foss, P.G.
Conestoga-Rovers & Associates (CRA)
5900 Hollis Street, Suite A
Emeryville, CA 94608
(510) 420-3348 office
(925) 413-8707 cell
(510) 420-9170 fax

APPENDIX B

STANDARD OPERATING PROCEDURES

STANDARD FIELD PROCEDURES
SOIL BORINGS AND SAMPLING

This document describes Conestoga-Rovers & Associates' standard field methods for drilling and sampling soil borings. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the modified Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or hydraulic push technologies. At least one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the borehole. The vertical location of each soil sample is determined by measuring the distance from the middle of the soil sample tube to the end of the drive rod used to advance the split barrel sampler. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4^{o}C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch type sampler or are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55 gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

STANDARD FIELD PROCEDURES
DUAL TUBE SAMPLING

This document describes Conestoga-Rovers & Associates' (CRA's) standard field methods for dual tube soil and groundwater sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate groundwater depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate moisture content,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

The Envirocore® (dual-tube) system consists of a segmented casing with an internal sampler which is driven hydraulically into the subsurface. The casing and the sampler are driven simultaneously in three-foot increments. Continuous sample cores are collected by the sampler in 1.5-inch diameter sample tubes which are either 6-inch long stainless steel or 3-foot long butyrate. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate, Alconox® or an equivalent EPA-approved detergent, and double rinsed with de-ionized water.

Hydrocarbon Field Screening

When hydrocarbons are a chemical of concern, soil samples are field screened for the presence of hydrocarbon vapors. After a soil sample has been collected, soil from the remaining tubing is placed

inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable GasTech® or photoionization detector measures volatile hydrocarbon vapor concentrations in the bag's headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Soil Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon® tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Grab Groundwater Sampling

Groundwater samples are collected from the open borehole using bailers, advancing disposable Tygon® tubing into the borehole and extracting groundwater using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all hydrocarbon sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement/bentonite grout poured or pumped through a tremie pipe.

STANDARD FIELD PROCEDURES
HAND-AUGER SOIL BORINGS AND SAMPLING

This document describes Conestoga-Rovers & Associates standard field methods for drilling and sampling soil borings using a hand-auger. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate ground water depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the modified Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Professional Geologist (PG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e. sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or product saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e. cementation, presence of marker horizons, mineralogy), &
- Estimated permeability.

Soil Boring and Sampling

Hand-auger borings are typically drilled using a hand-held bucket auger to remove soil to the desired sampling depth. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments beyond the bottom of the augered hole. The vertical location of each soil sample is determined using a tape measure. All sample depths use the ground surface immediately adjacent to the boring as a datum. The horizontal location of each boring is measured in the field from an onsite permanent reference using a measuring wheel or tape measure.

Augering and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4^{o}C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the field observations, odors, stratigraphy and ground water depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are collected from the open borehole using bailers. The ground water samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are collected usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory QA/QC blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

The borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite on top of and covered by plastic sheeting. At least four individual soil samples are collected from the stockpiles for later compositing at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Ground water removed during sampling and/or rinsate generated during decontamination procedures are stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Disposal of the water is based on the analytic results for the well samples. The water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

STANDARD FIELD PROCEDURES
MONITORING WELL INSTALLATION

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Professional Geologist (P.G.) or Professional Engineer (P.E.).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe®. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4^{o} C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 15 feet below and 5 feet above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three feet thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two feet above the well screen. A two feet thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of Portland type I,II cement.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security.

The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4°C, and transported under chain-of-custody to the laboratory. Laboratory-supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

Waste Handling and Disposal

Soil cuttings from drilling activities are usually stockpiled onsite and covered by plastic sheeting. At least three individual soil samples are collected from the stockpiles and composited at the analytic laboratory. The composite sample is analyzed for the same constituents analyzed in the borehole samples in addition to any analytes required by the receiving disposal facility. Soil cuttings are transported by licensed waste haulers and disposed in secure, licensed facilities based on the composite analytic results.

Groundwater removed during development and sampling is typically stored onsite in sealed 55-gallon drums. Each drum is labeled with the drum number, date of generation, suspected contents, generator identification and consultant contact. Upon receipt of analytic results, the water is either pumped out using a vacuum truck for transport to a licensed waste treatment/disposal facility or the individual drums are picked up and transported to the waste facility where the drum contents are removed and appropriately disposed.

STANDARD FIELD PROCEDURE
GROUNDWATER MONITORING AND SAMPLING

This document presents standard field methods for groundwater monitoring, purging and sampling, and well development. These procedures are designed to comply with Federal, State and local regulatory guidelines. CRA's specific field procedures are summarized below.

Groundwater Elevation Monitoring

Prior to performing monitoring activities, the historical monitoring and analytical data of each monitoring well shall be reviewed to determine if any of the wells are likely to contain non-aqueous phase liquid (NAPL) and to determine the order in which the wells will be monitored (i.e. cleanest to dirtiest). Groundwater monitoring should not be performed when the potential exists for surface water to enter the well (i.e. flooding during a rainstorm).

Prior to monitoring, each well shall be opened and the well cap removed to allow water levels to stabilize and equilibrate. The condition of the well box and well cap shall be observed and recommended repairs noted. Any surface water that may have entered and flooded the well box should be evacuated prior to removing the well cap. In wells with no history of NAPL, the static water level and total well depth shall be measured to the nearest 0.01 foot with an electronic water level meter. Wells with the highest contaminant concentrations shall be measured last. In wells with a history of NAPL, the NAPL level/thickness and static water level shall be measured to the nearest 0.01 foot using an electronic interface probe. The water level meter and/or interface probe shall be thoroughly cleaned and decontaminated at the beginning of the monitoring event and between each well. Monitoring equipment shall be washed using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water.

Groundwater Purging and Sampling

Prior to groundwater purging and sampling, the historical analytical data of each monitoring well shall be reviewed to determine the order in which the wells should be purged and sampled (i.e. cleanest to dirtiest). No purging or groundwater sampling shall be performed on wells with a measurable thickness of NAPL or floating NAPL globules. If sheen is observed, the well should be purged and a groundwater sample collected only if no NAPL is present. Wells shall be purged either by hand using a disposal or PVC bailer or by using an aboveground pump (e.g. peristaltic or Wattera™) or down-hole pump (e.g. Grundfos™ or DC Purger pump).

Groundwater wells shall be purged approximately three to ten well-casing volumes (depending on the regulatory agency requirements) or until groundwater parameters of temperature, pH, and conductivity have stabilized to within 10% for three consecutive readings. Temperature, pH, and conductivity shall be measured and recorded at least once per well casing volume removed. The total volume of groundwater removed shall be recorded along with any other notable physical characteristic such as color and odor. If required, field parameters such as turbidity, dissolved oxygen (DO), and oxidation-reduction potential (ORP) shall also be measured prior to collection of each groundwater sample.

Groundwater samples shall be collected after the well has been purged. If the well is slow to recharge, a sample shall be collected after the water column is allowed to recharge to 80% of the pre-purging static water level. If the well does not recover to 80% in 2 hours, a sample shall be collected once there is enough groundwater in the well. Groundwater samples shall be collected using clean

disposable bailers or pumps (if an operating remediation system exists on site and the project manager approves of its use for sampling) and shall be decanted into clean containers supplied by the analytical laboratory. New latex gloves and disposable tubing or bailers shall be used for sampling each well. If a PVC bailer or down-hole pump is used for groundwater purging, it shall be decontaminated before purging each well by using soapy water consisting of Liqui-nox™ or Alconox™ followed by one rinse of clean tap water and then two rinses of distilled water. If a submersible pump with non-dedicated discharge tubing is used for groundwater purging, both the inside and outside of pump and discharge tubing shall be decontaminated as described above.

Sample Handling

Except for samples that will be tested in the field, or that require special handling or preservation, samples shall be stored in coolers chilled to 4° C for shipment to the analytical laboratory. Samples shall be labeled, placed in protective foam sleeves or bubble wrap as needed, stored on crushed ice at or below 4° C, and submitted under chain-of-custody (COC) to the laboratory. The laboratory shall be notified of the sample shipment schedule and arrival time. Samples shall be shipped to the laboratory within a time frame to allow for extraction and analysis to be performed within the standard sample holding times.

Sample labels shall be filled out using indelible ink and must contain the site name; field identification number; the date, time, and location of sample collection; notation of the type of sample; identification of preservatives used; remarks; and the signature of the sampler. Field identification must be sufficient to allow easy cross-reference with the field datasheet.

All samples submitted to the laboratory shall be accompanied by a COC record to ensure adequate documentation. A copy of the COC shall be retained in the project file. Information on the COC shall consist of the project name and number; project location; sample numbers; sampler/recorder's signature; date and time of collection of each sample; sample type; analyses requested; name of person receiving the sample; and date of receipt of sample.

Laboratory-supplied trip blanks shall accompany the samples and be analyzed to check for cross-contamination, if requested by the project manager.

Waste Handling and Disposal

Groundwater extracted during sampling shall be stored onsite in sealed U.S. DOT H17 55-gallon drums and shall be labeled with the contents, date of generation, generator identification, and consultant contact. Extracted groundwater may be disposed offsite by a licensed waste handler or may be treated and discharged via an operating onsite groundwater extraction/treatment system.

STANDARD FIELD PROCEDURES

MEMBRANE INTERFACE PROBE AND CONE PENETROMETER TESTING AND SAMPLING

This document describes Conestoga-Rovers & Associates' standard field methods for Membrane Interface Probe (MIP) with Cone Penetrometer Testing (CPT) and direct-push soil and groundwater sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines.

Use of MIP/CPT for logging and soil and groundwater sampling requires separate borings. Typically an initial boring is advanced to estimate soil and groundwater characteristics as described below. To collect soil samples a separate boring must be advanced using a soil sampling device. If groundwater samples are collected, another separate boring must be advanced using a groundwater sampling device. Specific field procedures are summarized below.

Membrane Interface Probe (MIP) with Cone Penetrometer Testing (CPT)

Membrane Interface Probe with Cone Penetrometer Testing is performed by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). Cone Penetrometer Tests (CPT) are carried out by pushing an integrated electronic piezocone combined with a membrane interface probe into the subsurface. The piezocone is pushed using a specially designed CPT rig with a force capacity of 20 to 25 tons. The piezocones are capable of recording the following parameters:

Tip Resistance (Qc)
Sleeve Friction (Fs)
Pore Water Pressure (U)
Bulk Soil Resistivity (rho) - with an added module

The membrane interface probes are capable of recording the following parameters:

Photo Ionization Detector (PID)
Flame Ionization Detector (FID)
Radioactive Beta Emitter (ECD)

A compression cone is used for each CPT sounding. Piezocones with rated load capacities of 5, 10 or 20 tons are used depending on soil conditions. The 5 and 10 ton cones have a tip area of 10 sq. cm. and a friction sleeve area of 150 sq. cm. The 20 ton cones have a tip area of 15 sq. cm. and a friction sleeve area of 250 sq. cm. A pore water pressure filter is located directly behind the cone tip. Each of the filters is saturated in glycerin under vacuum pressure prior to penetration. Pore Pressure Dissipation Tests (PPDT) are recorded at 5 second intervals during pauses in penetration. The equilibrium pore water pressure from the dissipation test can be used to identify the depth to groundwater.

The measured parameters are printed simultaneously on a printer and stored on a computer disk for future analysis. All MIP/CPTs are carried out in accordance with ASTM D-3441. A complete set of baseline readings is taken prior to each sounding to determine any zero load offsets.

The inferred stratigraphic profile at each MIP/CPT location is included on the plotted CPT logs. The stratigraphic interpretations are based on relationships between cone bearing (Qc) and friction ratio (Rf). The friction ratio is a calculated parameter (Fs/Qc) used in conjunction with the cone bearing to

identify the soil type. Generally, soft cohesive soils have low cone bearing pressures and high friction ratios. Cohesionless soils (sands) have high cone bearing pressures and low friction ratios. The classification of soils is based on correlations developed by Robertson et al (1986). It is not always possible to clearly identify a soil type based on Qc and Rf alone. Correlation with existing soils information and analysis of pore water pressure measurements should also be used in determining soil type.

MIP/CPT and sampling equipment are steam-cleaned or washed prior to work and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent. Groundwater samples are decanted into appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

After the MIP/CPT probes are removed, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor odor or staining, estimate groundwater depth and quality and to submit samples for chemical analysis.

Soil Classification/Logging

All soil samples are classified according to the Unified Soil Classification System by a trained geologist or engineer working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG). The following soil properties are noted for each soil sample:

- Principal and secondary grain size category (i.e., sand, silt, clay or gravel)
- Approximate percentage of each grain size category,
- Color,
- Approximate water or separate-phase hydrocarbon saturation percentage,
- Observed odor and/or discoloration,
- Other significant observations (i.e., cementation, presence of marker horizons, mineralogy), and
- Estimated permeability.

Soil Sampling

Soil samples are collected from borings driven using hydraulic push technologies. A minimum of one and one half ft of the soil column is collected for every five ft of drilled depth. Additional soil samples can be collected near the water table and at lithologic changes. Samples are collected using samplers lined with polyethylene or brass tubes driven into undisturbed sediments at the bottom of the borehole. The ground surface immediately adjacent to the boring is used as a datum to measure sample depth. The horizontal location of each boring is measured in the field relative to a permanent on-site reference using a measuring wheel or tape measure.

Drilling and sampling equipment is steam-cleaned or washed prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Storage, Handling and Transport

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon[7] tape and plastic end caps. Soil samples are labeled and stored at or below 4°C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field Screening

After a soil sample has been collected, soil from the remaining tubing is placed inside a sealed plastic bag and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector measures volatile hydrocarbon vapor concentrations in the bag=s headspace, extracting the vapor through a slit in the plastic bag. The measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

Grab Groundwater Sampling

Groundwater samples are collected from the open borehole using bailers, advancing disposable Tygon[7] tubing into the borehole and extracting groundwater using a diaphragm pump, or using a hydro-punch style sampler with a bailer or tubing. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 4° C, and transported under chain-of-custody to the laboratory.

Duplicates and Blanks

Blind duplicate water samples are usually collected only for monitoring well sampling programs, at a rate of one blind sample for every 10 wells sampled. Laboratory-supplied trip blanks accompany samples collected for all sampling programs to check for cross-contamination caused by sample handling and transport. These trip blanks are analyzed if the internal laboratory quality assurance/quality control (QA/QC) blanks contain the suspected field contaminants. An equipment blank may also be analyzed if non-dedicated sampling equipment is used.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe.

STANDARD FIELD PROCEDURES
VAPOR POINT INSTALLATION AND SAMPLING

This document describes Conestoga-Rovers & Associates' standard field methods for soil vapor sampling. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Objectives

Soil vapor samples are collected and analyzed to assess whether vapor-phase subsurface contaminants pose a threat to human health or the environment.

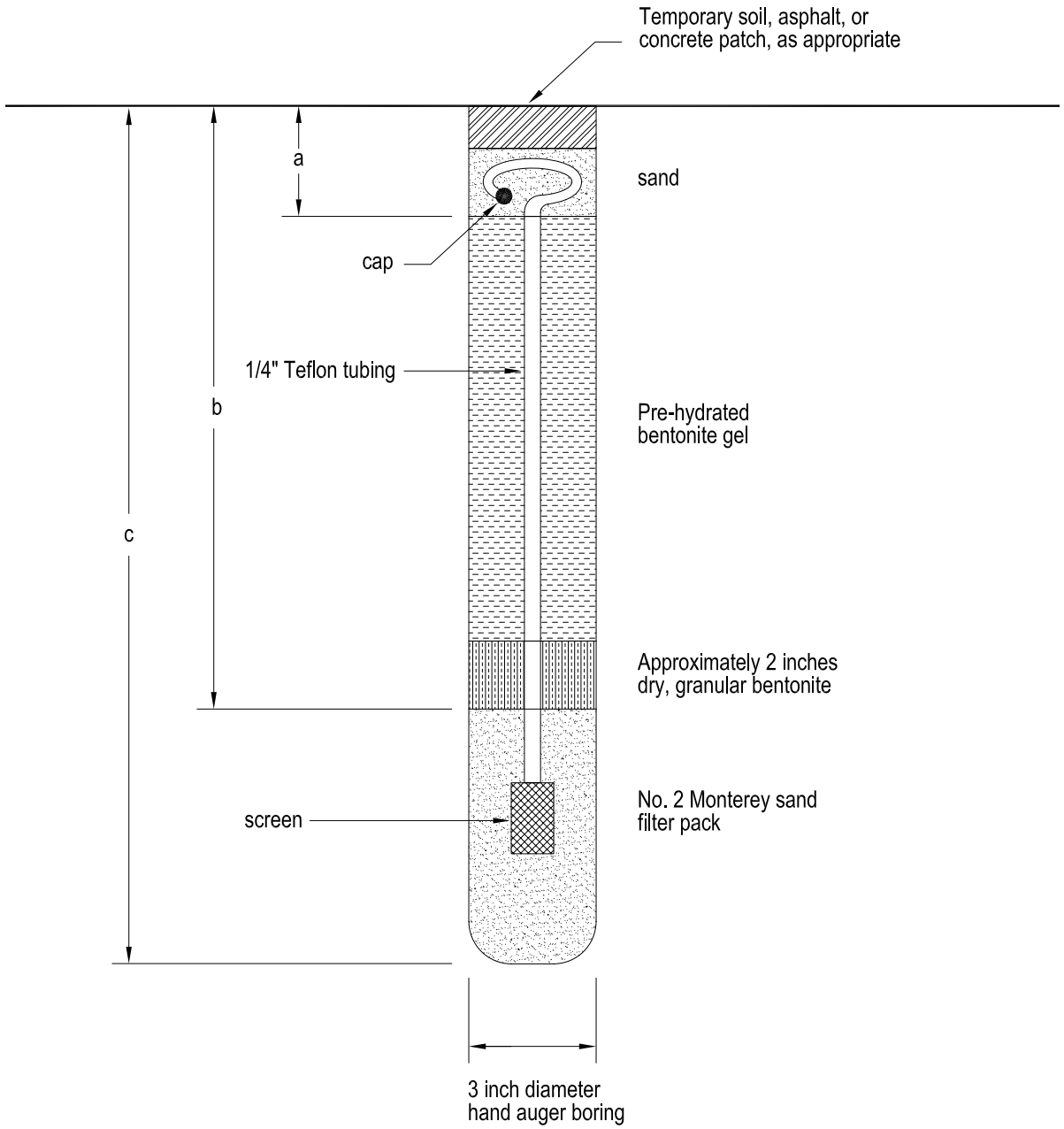
Shallow Soil Vapor Point Method for Soil Vapor Sampling

The shallow soil vapor point method for soil vapor sampling utilizes a hand auger or drill rig to advance a boring for the installation of a soil vapor sampling point. Once the boring is hand augered to the final depth, a 6-inch slotted probe, capped on either end with brass or Swagelok fittings, is placed within 12-inches of number 2/16 filter sand (Figure A). Nylon tubing of ¼-inch outer-diameter of known length is attached to the probe. A 12-inch layer of unhydrated bentonite chips is placed on top of the filter pack. Next hydrated bentonite is then poured into the hole to approximately and topped with another 2-inch layer of unhydrated bentonite chips or concrete, depending if the boring will hold one probe or multiple probes. The tube is coiled and placed within a wellbox finished flush to the surface. Soil vapor samples will be collected no sooner than one week after installation of the soil vapor points to allow adequate time for representative soil vapors to accumulate. Soil vapor sample collection will not be scheduled until after a minimum of three consecutive precipitation-free days and irrigation onsite has ceased. Figure B shows the soil vapor sampling apparatus. A measured volume of air will be purged from the tubing using a different Summa purge canister. Immediately after purging, soil vapor samples will be collected using the appropriate size Summa canister with attached flow regulator and sediment filter. The soil vapor points will be preserved until they are no longer needed for risk evaluation purposes. At that time, they will be destroyed by extracting the tubing, hand augering to remove the sand and bentonite, and backfilling the boring with neat cement. The boring will be patched with asphalt or concrete, as appropriate.

Vapor Sample Storage, Handling, and Transport

Samples are stored and transported under chain-of-custody to a state-certified analytic laboratory. Samples should never be cooled due to the possibility of condensation within the canister.

Attachments: Figure A: Soil Vapor Point
Figure B: Soil Vapor Sampling Apparatus Diagram



Schematic Not to Scale

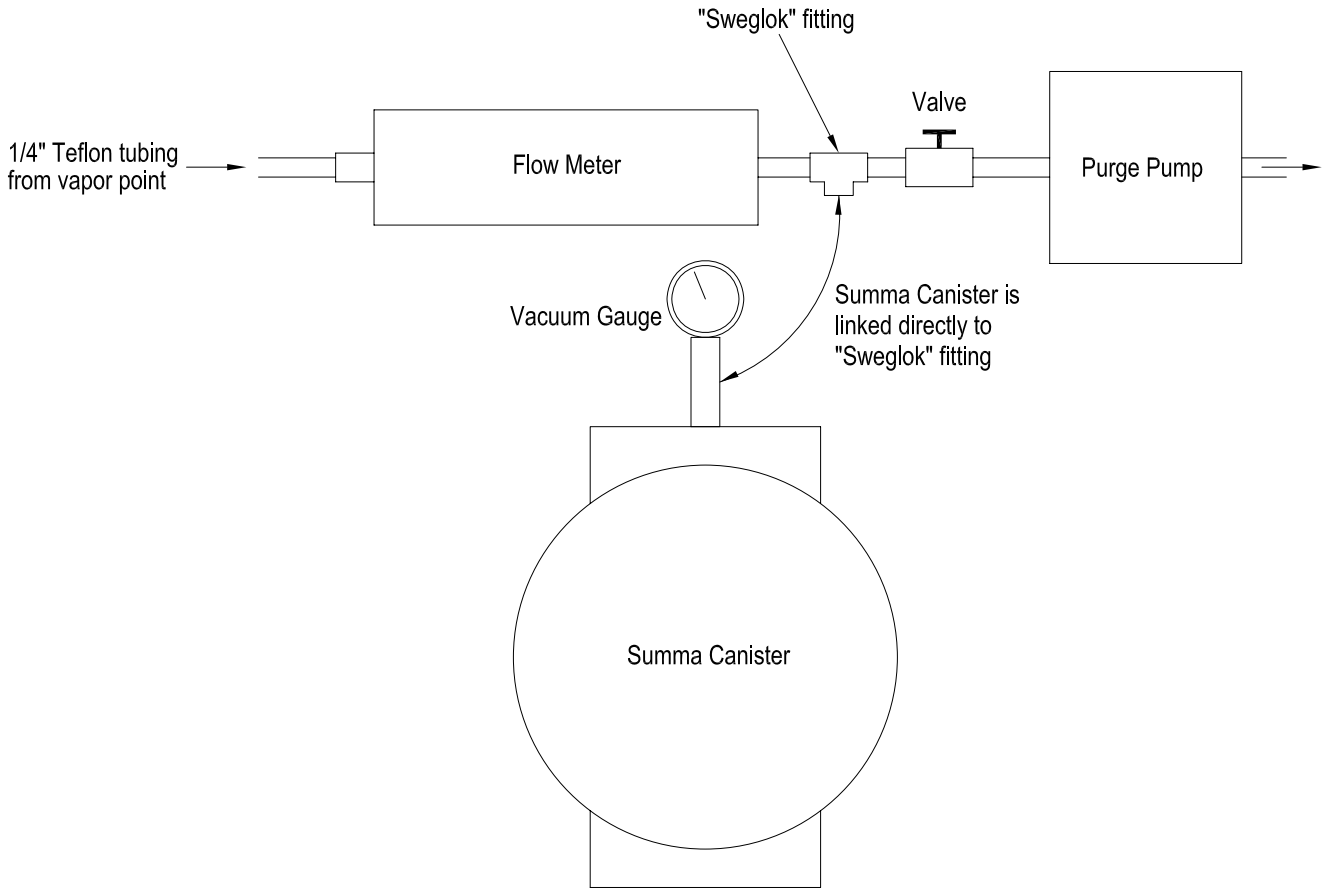
FIGURE

A

Soil Vapor Point

CONESTOGA-ROVERS & ASSOCIATES

S:\0-TEXACO\TEX-SITES\211273\FIGURES\VAPOR-POINT.DWG



Schematic Not to Scale

FIGURE

B

CONESTOGA-ROVERS & ASSOCIATES

Soil Vapor Sampling Apparatus Diagram

S:\0-TEXACO\TEX-SITES\211273\FIGURES\VAPOR-DIAG.DWG

APPENDIX C

PERMITS

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: 08/03/2009 By jamesy

Permit Numbers: W2009-0693 to W2009-0698
Permits Valid from 08/10/2009 to 08/20/2009

Application Id: 1248885564091
Site Location: 1137-1167 65th St., Oakland, CA
City of Project Site: Oakland
Project Start Date: 08/10/2009
Completion Date: 08/20/2009
Assigned Inspector: Contact James Yoo at (510) 670-6633 or jamesy@acpwa.org

Applicant: Conestoga-Rovers & Associates - M Werner
5900 Hollis St. Ste. A, Emeryville, CA 94608
Phone: 510-420-0700

Property Owner: John Nady c/o Frederic Schrag
6701 Shellmound St., Emeryville, CA 94608
Phone: 510-652-2411

Client: ** same as Property Owner **

Total Due: $2118.00
Receipt Number: WR2009-0288 **Total Amount Paid:** $2118.00
Payer Name : Conestoga Rovers & Associates Paid By: CHECK
PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 4 Wells
Driller: Gregg - Lic #: 485165 - Method: auger

Work Total: $1588.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0693	08/03/2009	11/08/2009	MW3B	8.00 in.	2.00 in.	13.00 ft	24.00 ft
W2009-0694	08/03/2009	11/08/2009	MW3C	8.00 in.	2.00 in.	23.00 ft	35.00 ft
W2009-0695	08/03/2009	11/08/2009	MW7B	5.00 in.	1.00 in.	13.00 ft	24.00 ft
W2009-0696	08/03/2009	11/08/2009	MW7C	8.00 in.	1.00 in.	23.00 ft	35.00 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. Permitte, 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 James Yoo for an inspection time at 510-670-6633 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.

Borehole(s) for Investigation-Geotechnical Study/CPT's - 36 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: auger **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0697	08/03/2009	11/08/2009	36	3.00 in.	60.00 ft

Specific Work Permit Conditions

1. Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. All cuttings remaining or unused shall be containerized and hauled off site.

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required

for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

5. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permitte, 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.

7. 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.

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

Borehole(s) for Geo Probes-Sampling 24 to 72 hours only - 9 Boreholes
Driller: Gregg Drilling - Lic #: 485165 - Method: DP **Work Total: $265.00**

Specifications

Permit Number	Issued Dt	Expire Dt	# Boreholes	Hole Diam	Max Depth
W2009-0698	08/03/2009	11/08/2009	9	3.00 in.	6.00 ft

Specific Work Permit Conditions

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

2. Boreholes shall not be left open for a period of more than 24 hours. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes. No borehole(s) shall be left in a manner to act as a conduit at any time.

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

4. Applicant shall contact James Yoo for an inspection time at 510-670-6633 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

5. Permitte, 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.

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

7. 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.

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

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:
399 Elmhurst Street
Hayward, CA 94544
For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org
For Drilling Permit information and process contact James Yoo at
Phone: 510-670-6633
FAX: 510-782-1939
Email: Jamesy@acpwa.org

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

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

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460
Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460
Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol Zone 7 Water Agency Ph: 925-454-5000
Fax: 510-454-5728

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

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

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

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

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

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

Permit Fees are exempt to State & Federal Projects
Applicants shall submit a letter from the agency requesting the fee exemption.

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

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

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

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

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

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

Refunds/Service Charge:
A service charge of $25.00 dollars for the first check returned and $35.00 dollars for each subsequent check returned.

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

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

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

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

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

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

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

Enforcement actions will be determined by this office on a case-by-case basis
Drilling without a permit shall be the cost of the permit(s) and a fine of $500.00 (Five Hundred Dollars).

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

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

Jonas, Mark

From: wells@acpwa.org
Sent: Monday, August 03, 2009 3:43 PM
To: Werner, Michael
Cc: schrag@nady.com; Jonas, Mark
Subject: Alameda County Well Permit Approval Notification
Attachments: general_cond.pdf; 1248885564091.pdf

Thank you for your Online Request for Wells Permits.
Your Application Id is: 1248885564091
Application submitted on: 07/29/2009
Project Site City/Location: Oakland / 1137-1167 65th St., Oakland, CA
Project Start Date: 08/10/2009 **Completion Date:** 08/20/2009

Your Permit Application has been approved.
Permit Number(s) Issued: W2009-0693 to W2009-0698 Valid from 08/10/2009 to 08/20/2009

Inspection is REQUIRED.
To avoid possible delay of your project, you must contact your assigned inspector, James Yoo at jamesy@acpwa.org or (510) 670-6633, no later than 5 days before the Project Start Date listed on your permit to schedule your inspection.

Attached are 2 PDF files, one serves as your receipt and permit(s), please print for your record.
The other includes the General Conditions and Instructions you must follow.
Note: You need to have the free Adobe Reader to open the pdf file.

Conditions of Permit:
Please follow and comply with conditions and instructions listed in the general conditions document.
In addition, you must comply with all specific conditions listed in your permit.

If you need further assistance regarding your permit, please visit our website at: http://www.acgov.org/pwa/wells/ or contact us at wells@acpwa.org, and include your application id number.

Thank you,
Public Works Agency-Water Resources

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# X0901016 Job Site 1167 65TH ST Parcel# 016 -1505-011-03

Descr install 2 wells on on Ocean Ave Permit Issued 07/28/09

JOB SITE

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#:
Util Fund #:

	Applcnt	Phone#	Lic#	--License Classes--
Owner JOHN NADY				
Contractor				
Arch/Engr GREGG DRILLING & TESTING, INC.	X	(925)313-5800	485165	
Agent MIKE WARNER				

Applic Addr 950 HOWE RD, MARTINEZ, CA., 94553

$433.18 TOTAL FEES PAID AT ISSUANCE

$68.50 Applic	$309.00 Permit
$.00 Process	$35.86 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$19.82 Tech Enh

Permit Issued By _____ Date: 7.28.09

Finaled By _____ Date: _____

ADDRESS:

CITY OF OAKLAND

Date: 07/28/09 Amt Paid: $866.36
By: DLR Register R03 Receipt# 139736

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Project Address: 1167 65TH ST

Licensed Contractors' Declaration
I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration
I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender_____ Address_____

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER:_____ POLICY NO. _____

[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous or acutely hazardous materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

_____ _____ _____
PRINT NAME Signature [ ] Contractor, or [ ] Agent Date

ADDRESS:

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X0901016	SITE ADDRESS/LOCATION * 1167 - 65 E OCEAN
APPROX. START DATE / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 485165	CITY BUSINESS TAX #

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- **48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.**

3- **48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).**

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two sales more than once during any three-year period. (Sec. 7044 Business and Professions Code).

☐ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____, B&PC for this reason _____.

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ 7-28-09

Signature of Permittee ☐ Agent for ☐ Contractor ☐ Owner Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ISSUED BY		DATE ISSUED 7-28-09	

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# X0901015 Job Site 1167 65TH ST Parcel# 016 -1505-011-03

Descr install 5 wells on on Peabody Lane Permit Issued 07/28/09

Work Type EXCAVATION-PRIVATE P

USA # Util Co. Job # Acctg#: JOB SITE
Util Fund #:

	Applcnt	Phone#	Lic#	--License Classes--
Owner	JOHN NADY			
Contractor				
Arch/Engr	GREGG DRILLING & TESTING, INC.	X (925)313-5800	485165	
Agent	MIKE WARNER			
Applic Addr	950 HOWE RD, MARTINEZ, CA., 94553			

$433.18 TOTAL FEES PAID AT ISSUANCE

$68.50 Applic	$309.00 Permit
$.00 Process	$35.86 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$19.82 Tech Enh

Permit Issued By _____ Date: 7.28.09

Finaled By _____ Date: _____

ADDRESS:

CITY OF OAKLAND

Date: 07/28/09 Amt Paid: $866.36
By: DLR Register R03 Receipt# 139736

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

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Permit No. X0901015 Parcel #: 016 -1505-011-03
Project Address: 1167 65TH ST

Licensed Contractors' Declaration
I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Construction Lending Agency Declaration
I hereby affirm under penalty of perjury that there is a construction-lending agency for the performance of the work for which this permit is issued, as provided by Section 3097 of the Business and Professions Code. N/A under Lender implies No Lending Agency.

Lender_____ Address_____

Workers' Compensation Declaration

I hereby affirm under penalty of perjury one of the following declarations:

[ ] I have and will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

[ ] I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.

CARRIER:_____POLICY NO. _____

[ ] I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS, IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3707 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

Hazardous Materials Declaration

I hereby affirm that the intended occupancy [ ] WILL [ ] WILL NOT use, handle or store any hazardous or acutely hazardous materials. (Checking "WILL" acknowledges that Sections 25505, 25533, & 25534 of the Health & Safety Code, as well as filing instructions, were made available to you.)

I HEREBY CERTIFY THE FOLLOWING: That I have read this document; that the above information is correct; and that I have truthfully affirmed all applicable declarations contained in this document. I agree to comply with all city and county ordinances and state laws relating to building construction, and hereby authorize representatives of this city to enter upon the above-mentioned property for inspection. I am fully authorized by the owner and to perform the work authorized by this permit.

ADDRESS:

PRINT NAME _____ Signature [ ] Contractor, or [ ] Agent _____ Date _____

CITY OF OAKLAND
Office of Planning and Building

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL ENGINEERING

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X 0 9 0 1 0 1 6 *	SITE ADDRESS/LOCATION 1167 65 & OCEAN
APPROX. START DATE / APPROX. END DATE	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number)
CONTRACTOR'S LICENSE # AND CLASS 485165	CITY BUSINESS TAX #

ATTENTION:

1- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # _____

2- **48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.**

3- **48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).**

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than $500):

☐ I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

☐ I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two tures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

☐ I am exempt under Sec. _____ , B&PC for this reason _____.

WORKER'S COMPENSATION

☐ I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name _____

☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars ($100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

X _____ 7-28-09

Signature of Permittee ☐ Agent for ☐ Contractor ☐ Owner — Date

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? ☐ YES ☐ NO	HOLIDAY RESTRICTION? (NOV 1 - JAN 1) ☐ YES ☐ NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) ☐ YES ☐ NO
ED BY		DATE ISSUED 7-28-09	

forms/ops/excavate.pg2 (04/98)

CITY OF OAKLAND • Community and Economic Development Agency
250 Frank H. Ogawa Plaza, 2nd Floor, Oakland, CA 94612 • Phone (510) 238-3443 • Fax (510) 238-2263

Applications for which no permit is issued within 180 days shall expire by limitation. No refund after 180 days when expired.

Appl# ENMI09125 Job Site 1167 65TH ST Parcel# 016 -1505-011-03

Descr install 5 wells on on Peabody Lane Filed 04/24/09

JOB SITE

Insurance Required? YES Carrier INS OF CALIFRONIA Expires 11/15/09

	Applcnt	Phone#	Lic#	--License Classes--
Owner JOHN NADY				
Contractor			Nady	521000-334
Arch/Engr CONESTOGA ROVERS AND ASSOC	X	(510)420-3358		
Agent MIKE WARNER				

Applic Addr 5900 HOLLIS STREET, EMERYVILLE, CA, 94608

$1,014.39 TOTAL FEES PAID AT FILING $.00 TOTAL FEES PAID AT ISSUANCE

$66.00 Applic	$.00 Permit
$818.00 Process	$83.98 Rec Mgmt
$.00 Gen Plan	$.00 Invstg
$.00 Other	$46.41 Tech Enh

Permit Issued By _____ Date: 4/24/09

Finaled By _____ Date: _____

CITY OF OAKLAND
Community & Economic Development Agency
250 Frank H. Ogawa Pl, Oakland CA, 94612
Phone: (510)238-4774 FAX: (510)238-2263

PAYMENT RECEIPT

Application#: ENMI09125 Payment#: 0001

APPLICATION FEE	$66.00
PROCESS FEE	$818.00
RECORDS MANAGEMENT FEE (	$83.98
TECHNOLOGY ENHANCEMENT FE	$46.41
Subtotal:	$1,014.39
Sales Tax:	$.00
***** TOTAL PAID:	$1,014.39
Check Payment:	$1,014.39

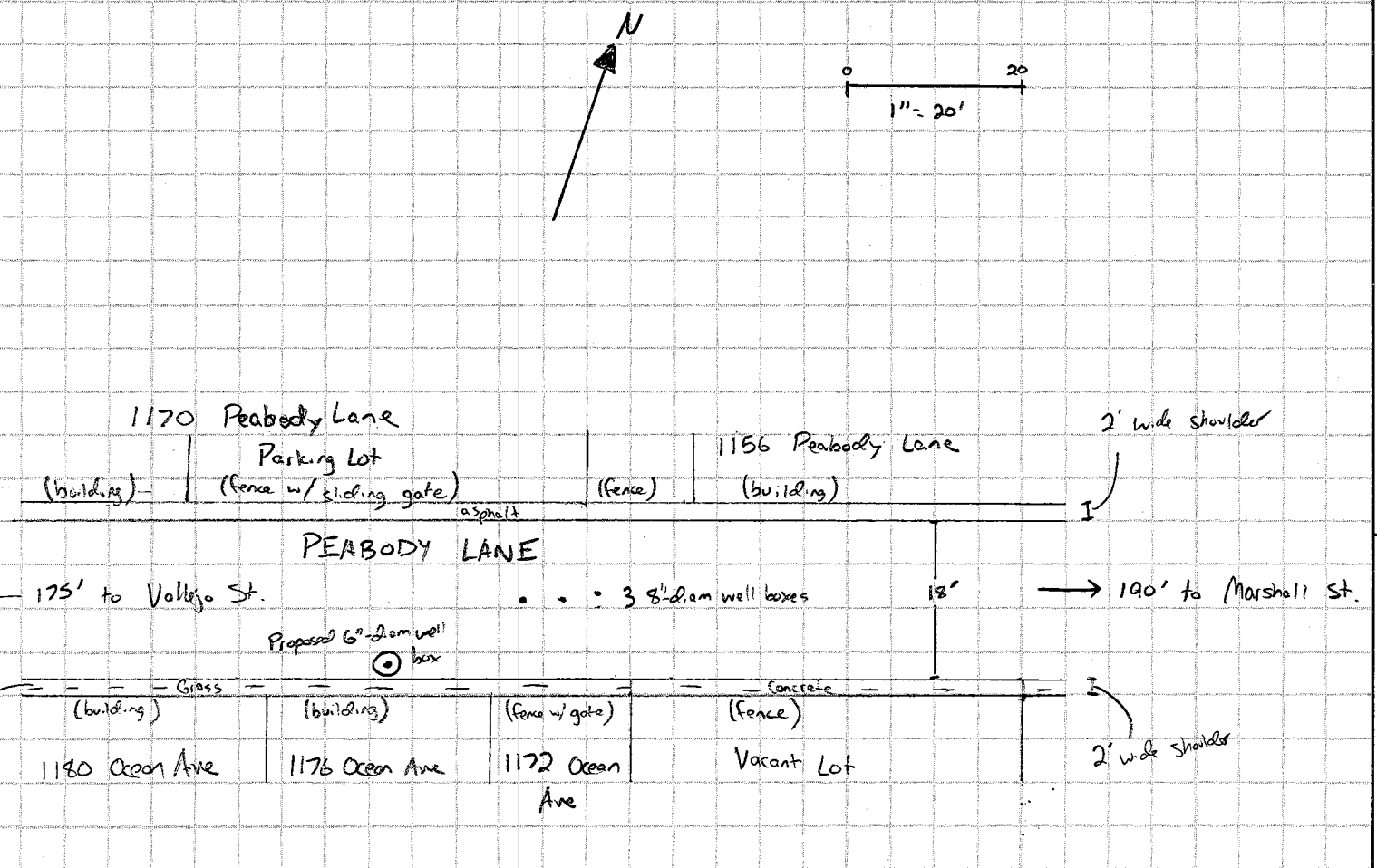
Payor: CONESTOGA ROVERS AND ASS
Date: 04/24/09 Time: 14:58:55
By: SYK Register R03 Receipt# 137225
****
ORIGINAL RECEIPT REQUIRED FOR REFUND
****

CITY OF OAKLAND

Date: 04/24/09 Amt Paid: $1,014.39
By: SYK Register R03 Receipt# 137225

CRA
CONESTOGA-ROVERS & ASSOCIATES

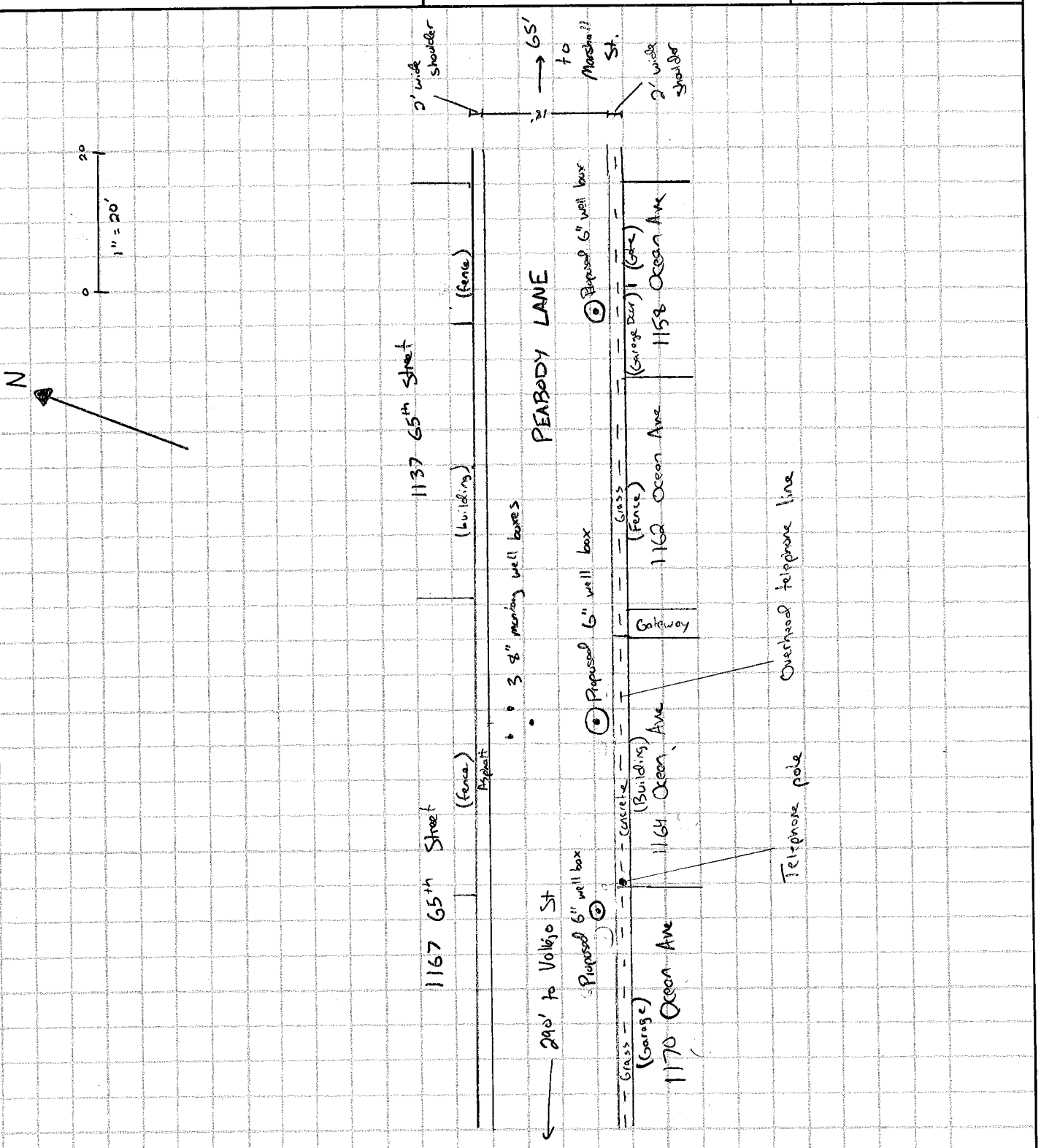
PROJECT No.: 521000
PROJECT NAME: John Nady Encroachment Map
DATE: 4/24/09
DESIGNED BY: MW
CHECKED BY:
PAGE 2 OF 2



CRA
CONESTOGA-ROVERS & ASSOCIATES

PROJECT No.: 521000
PROJECT NAME: John Nady
Encroachment Map
DATE: 4/24/09

DESIGNED BY: MW
CHECKED BY:
PAGE 1 OF 2



☐ **Property Address: 1167 65TH ST OAKLAND CA 94608-1108**

Ownership

Parcel# (APN):	**016 -1505-011-03** Use Description: **INDUSTRIAL**
Parcel Status:	
Owner Name:	**NADY JOHN TR**
Mailing Addr:	**11 GLEN ALPINE RD PIEDMONT CA 94611-3520**
Legal Description:	

Assessment

Total Value:	**$832,383**	Use Code:	**4200**	Zoning:	
Land Value:	**$471,188**	Tax Rate Area:	**017043**	Census Tract:	4008.00/1
Impr Value:	**$361,195**	Year Assd:	**2008**	Impr Type:	
Other Value:		Property Tax:		Price/SqFt:	**$34.40**
% Improved:	**43%**	Delinquent Yr:			
Exempt Amt:		Exempt Codes:	**N**		

Sale History

	Sale1	Sale2	Sale3	Transfer
Recording Date:	12/30/1986			05/19/1997
Recording Doc:	1986331115			1997123982
Rec. Doc Type:				
Transfer Amount:	$560,000			
Seller (Grantor):				
1st Trust Dd Amt:				
2nd Trust Dd Amt:				

Property Characteristics

Lot Acres:	**0.730**	Year Built:	**1940**	Fireplace:	
Lot SqFt:	**31,700**	Effective Year:	**1940**	A/C:	
Bldg/Liv Area:	**16,280**			Heating:	
Units:		Total Rooms:		Pool:	
Buildings:	**6**	Bedrooms:		Flooring:	
Stories:	**1.0**	Baths (Full):		Park Type:	
Style:		Baths (Half):		Spaces:	
Construction:		Bsmt SqFt:	**N/A**	Site Influence:	
Quality:	**5.0**	Garage SqFt:			
Building Class:	**C**			Timber Preserve:	
Condition:				Ag Preserve:	
Other:					
Other Rooms:					

Escrow No. 208000
Loan No.

FIRST AMERICAN TITLE CO.
RECORDED IN OFFICIAL RECORDS OF ALAMEDA COUNTY, CALIF.
DEC 30 1986
AT 8 A.M.

TRANSFER TAX PAID ALAMEDA COUNTY

WHEN RECORDED MAIL TO:
John Hoey
1137 - 62nd Street
Oakland, CA 94608

SPACE ABOVE THIS LINE FOR RECORDER'S USE

MAIL TAX STATEMENTS TO:
Same as above

CITY TAX PAID

The undersigned grantor(s) declare(s):
CITY TRANSFER TAX IS $ 2,320.00
DOCUMENTARY TRANSFER TAX IS $ 816.00
SURVEY MONUMENT PRESERVATION FUND IS $ 3.40
XXComputed on the consideration or value of property conveyed; OR
Computed on the consideration or value less liens or encumbrances remaining at time of sale.

A.P. # 36-1909-11-3

GRANT DEED

FOR A VALUABLE CONSIDERATION, receipt of which is hereby acknowledged,

Alan Hoey, an unmarried man

hereby GRANT(S) to

John Hoey, a single man

the real property in the City of Oakland, County of Alameda, State of California, described as

SEE LEGAL DESCRIPTION ATTACHED HERETO AND MADE A PART HEREOF...

Dated September 24, 1986

Alan Hoey

STATE OF CALIFORNIA
COUNTY OF Alameda ss.

On December 23, 1986 before me, the undersigned, a Notary Public in and for said State personally appeared

Alan Hoey

personally known to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument and acknowledged to me that he/she/they executed the same.

WITNESS my hand and official seal.

Signature M. C. Lau

OFFICIAL SEAL
M. C. LAU
NOTARY PUBLIC-CALIFORNIA
COUNTY OF ALAMEDA
My Commission Expires Dec. 25, 1988

(This area for official notarial seal)

MAIL TAX STATEMENTS AS DIRECTED ABOVE

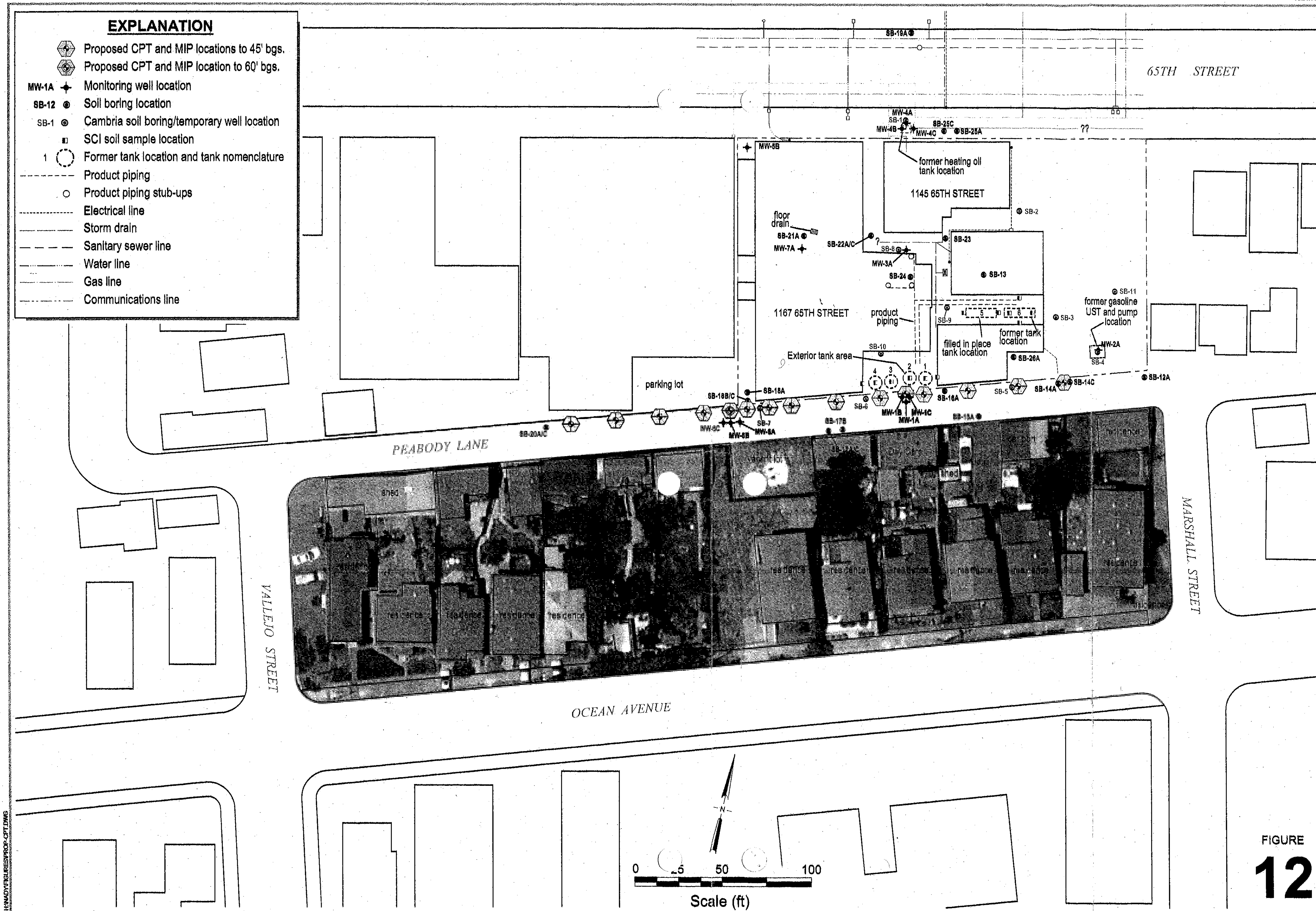


FIGURE
12

Proposed CPT and MIP Locations Map

1137 - 1167 65th Street
Oakland, California

CONESTOGA-ROVERS & ASSOCIATES

Recording requested by:

CITY OF OAKLAND

When recorded mail to:

City of Oakland
CEDA - Building Services
Dalziel Administration Building
250 Ogawa Plaza - 2nd Floor
Oakland, CA 94612
Attn: City Engineer

---------- *space above for Recorder's use only* ----------

INDENTURE AGREEMENT

Address 1167 65th Street. **Permit no.** ENMI 09125 **Resolution No.** ___N.A.__ **C.M.S.**

Parcel no. 016 -1505-011-03 **Authorities** Municipal Code Section 12.08.080

Description Encroach into the Public Right-of-Way with four monitoring wells

RECITAL

The owner subscribed below of fee simple interest in the property referenced above and described in Exhibit B attached hereto, is hereby granted, for an indeterminate period of time, the revocable permit referenced above allowing the temporary encroachment described above and delineated in Exhibit C, attached hereto, and limiting the use, exercise, and operation of the encroachment with the requirements and restrictions set forth in Exhibit A, attached hereto, and the associated permit. The owner agrees by and between themselves to be bound by the general and special conditions in Exhibit A and to comply with these conditions faithfully and fully at all times. The conditions of this agreement and associated permit shall equally bind all agents, heirs, successors, and assigns of the owner.

ACKNOWLEDGEMENT OF PROPERTY OWNER

(Notarization of signature required)

Signature John Nady **Date** 7/27/09

John Nady

ATTACHMENTS

Exhibit **A** - Conditions of encroachment
Exhibit **B** - Description of privately owned parcel
Exhibit **C** - Limits of encroachment

CITY OF OAKLAND a municipal corporation	**by** _____ **date** _____ **RAYMOND M. DERANIA** City Engineer Community and Economic Development Agency
DAM LINDHEIM City Administrator	

EXHIBIT A

Conditions for an Encroachment in the Public Right-Of-Way

- **General conditions of the encroachment**

1. This agreement may be voided and the associated permit for an encroachment may be revoked at any time and for any reason, at the sole discretion of the City Council, or the associated permit may be suspended at any time, at the sole discretion of the City Engineer, upon failure of the permittee to comply fully and continuously with each and all of the general and special conditions set forth herein and in the associated permit.

2. The property owner and permittee hereby disclaim any right, title, or interest in or to any portion of the public right-of-way, including the sidewalk and street, and agree that the encroachment is granted for indeterminate period of time and that the use and occupancy by the permittee of the public right-of-way is temporary and does not constitute an abandonment, whether expressed or implied, by the City of Oakland of any of its rights associated with the statutory and customary purpose and use of and operations in the public right-of-way.

3. The permittee agrees to indemnify and save harmless the City of Oakland, its officers, agents, employees, and volunteers, and each of them, from any suits, claims, or actions brought by any person or persons, corporations, or other entities for on account of any bodily injury, disease, or illness, including death, damage to property, real or personal, or damages of any nature, however caused, and regardless of responsibility for negligence, arising in any manner out of the construction of or installation of a private improvement itself or sustained as result of its construction or installation or resulting from the permittees' failure to maintain, repair, remove and/or reconstruct the private improvement.

4. The permittee shall maintain fully in force and effect at all times that the encroachment occupies the public right-of-way good and sufficient public liability insurance in a face amount not less than $300,000.00 for each occurrence, and property damage insurance in a face amount not less than $50,000.00 for each occurrence, both including contractual liability, insuring the City of Oakland, its officers, agents, employees, and volunteers against any and all claims arising out of the existence of the encroachment in the public right-of-way, as respects liabilities assume under this permit, and that a certificate of such insurance and subsequent notices of the renewal thereof, shall be filed with the City Engineer of the City of Oakland, and that such certificate shall state that the insurance coverage shall not be canceled or be permitted to lapse without thirty calendar (30) days written notice to the City Engineer. The permittee also agree that the City of Oakland may review the type and amount of insurance required of the permittee annually and may require the permittee to increase the amount of and/or change the type of insurance overage required.

5. The permittee shall be solely and fully liable and responsible for the repair, replacement, removal, reconstruction, and maintenance of any portion or all of the private improvements constructed or installed in the public right-of-way, whether by the cause, neglect, or negligence of the permittee or others and for the associated costs and expenses necessary to restore or remove the encroachment to the satisfaction of the City Engineer and shall not allow the encroachment to become a blight or a menace or a hazard to the health and safety of the general public.

6. The permittee acknowledge and agree that the encroachment is out of the ordinary and does not comply with City of Oakland standard installations. The permittee further acknowledge and agree that the City of Oakland and public utility agencies will periodically conduct work in the public right-of-way, including excavation, trenching, and relocation of its facilities, all of which may damage the encroachment. Permittee further acknowledge and agree that the City and public utility agencies take no responsibility

responsibility for repair or replacement of the encroachment which may be damaged by the City or its contractors or public utility agencies or their contractors. Permittee further acknowledge and agree that upon notification by and to the satisfaction of the City Engineer, permittee shall immediately repair, replace, or remove, at the sole expense of the permittee, all damages to the encroachment that are directly or indirectly attributable to work by the City or its contractors or public utility agencies or their contractors.

7. Permittee shall remain liable for and shall immediately reimburse the City of Oakland for all costs, fee assessments, penalties, and accruing interest associated with the City's notification and subsequent abatement action for required maintenance, repairs, or removal, whether in whole or in part, of the encroachment or of damaged City infrastructure made necessary by the failure, whether direct or indirect, of the permittees to monitor the encroachment effectively and accomplish preventative, remedial, or restorative work expeditiously. The City reserves the unqualified right to collect all monies unpaid through any combination of available statutory remedies, including recordation of Prospective Liens and Priority Liens/ Special Assessments with the Alameda County Recorder, inclusion of non-reimbursed amounts by the Alameda County Assessor with the annual assessment of the general levy, and awards of judgments by a court of competent jurisdiction.

8. Upon revocation of the encroachment permit, permittee shall immediately, completely, and permanently remove the encroachment from the public right-of-way and restore the public right-of-way to its original conditions existing before the construction or installation of the encroachment, to the satisfaction of the City Engineer and all at the sole expense of the permittee.

9. This agreement and the associated permit for an encroachment shall become effective upon filing of this agreement with the Alameda County Clerk Recorder for recordation as an encumbrance of the property and its title.

- **Special conditions of the encroachment**

10. That said permittee acknowledges that the City makes no representations or warranties as to the conditions beneath said encroachment. By accepting this revocable permit, permittee agrees that it will use the encroachment area at its own risk, is responsible for the proper coordination of its activities with all other permittee, underground utilities, contractors, or workmen operating, within the encroachment area and for the safety of itself and any of its personnel in connection with its entry under this revocable permit.

11. That said permittee acknowledges that the City is unaware of the existence of any hazardous substances beneath the encroachment area, and permittee hereby waives and fully releases and forever discharges the City and its officers, directors, employees, agents, servants, representatives, assigns and successors from any and all claims, demands, liabilities, damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs), whether direct or indirect, known or unknown, foreseen or unforeseen, that may arise out of or in any way connected with the physical condition or required remediation of the excavation area of any law or regulation applicable thereto, including, without limitation, the Comprehensive Environmental Response, Compensation and Liability Act of 1980, as amended (42 U.S.C. Sections 9601 et seq.), the Resource Conservation and Recovery Act of 1976 (42 U.S.C. Section 466 et seq.), the Safe Drinking Water Act (14 U.S.C. Sections 1401, 1450), the Hazardous Waste Control Law (California Health and Safety Code Sections 25100 et seq.), the Porter-Cologne Water Quality Control Act (California Health and Safety Code Section 13000 et seq.), the Hazardous Substance Account Act (California Health and Safety Code Sections 253000 et seq.), and the Safe Drinking Water and Toxic Enforcement Act (California Health and Safety Code Section 25249.5 et seq.).

12. That said permittee further acknowledges that it understands and agrees that it hereby expressly waives all rights and benefits which it now has or in the future may have, under and by virtue of the terms of California Civil Code Section 1542, which reads as follows: "A GENERAL RELEASE DOES NOT EXTEND TO CLAIMS WHICH THE CREDITOR DOES NOT KNOW OR SUSPECT TO EXIST IN HIS FAVOR AT THE TIME OF EXECUTING THE RELEASE, WHICH IF KNOWN BY HIM MUST HAVE MATERIALLY AFFECTED HIS SETTLEMENT WITH THE DEBTOR."

13. That said permittee recognizes that by waiving the provisions of this section, permittee will not be able to make any claims for damages that may exist, and to which, if known, would materially affect its decision to agree to these encroachment terms and conditions, regardless of whether permittee's lack of knowledge is the result of ignorance, oversight, error, negligence, or any other cause.

14. (a) That said permittee, by the acceptance of this revocable permit, agrees and promises to indemnify, defend, and hold harmless the City of Oakland, its officers, agents, and employees, to the maximum extent permitted by law, from any and all claims, demands, liabilities damages, actions, causes of action, penalties, fines, liens, judgments, costs, or expenses whatsoever (including, without limitation, attorneys' fees and costs; collectively referred to as "claims", whether direct or indirect, known or unknown, foreseen or unforeseen, to the extent that such claims were either (1) caused by the permittee, its agents, employees, contractors or representatives, or, (2) in the case of environmental contamination, the claim is a result of environmental contamination that emanates or emanated from 1167 65th Street, Oakland, California site, or was otherwise caused by the permittee, its agents, employees, contractors or representatives.

(b) That, if any contamination is discovered below or in the immediate vicinity of the encroachment, and the contaminants found are of the type used, housed, stored, processed or sold on or from 1167 65th Street, Oakland, California site, such shall amount to a rebuttable presumption that the contamination below, or in the immediate vicinity of, the encroachment was caused by the permittee, its agents, employees, contractors or representatives.

(c) That said permittee shall comply with all applicable federal, state, county and local laws, rules, and regulations governing the installation, maintenance, operation and abatement of the encroachment.

15. That said Encroachment Permit and Agreement shall take effect when all the conditions hereinabove set forth shall have been complied with to the satisfaction of the City Engineer, and shall become null and void upon the failure of the permittee to comply with all conditions.

16. The Council of the City of Oakland, at its sole discretion and at future date not yet determined, may impose additional and continuing fees as prescribed in the Master Fee Schedule, for use and occupation of the public right of way

EXHIBIT B

Description of the Private Property Abutting the Encroachment

address 1167 65th Street

parcel no. 016 -1505-011-03

Recorders Series No. 97123982

Recorded 05/19/97

PARCEL 1:

The eastern 110 feet of Lot 107, Block 7, Maxwell Tract, filed September 19, 1972, in book 7 of Maps, Page 21, Alameda County Records.

PARCEL 2:

A portion of Lot 107, Block 7, Maxwell Tract, filed September 19, 1972, in Book 5 of Maps, Page 21, Alameda County Records, described as follows:

Beginning at a point on the southerly line of 65th Street, Formerly Dalton Avenue, distant thereon 321 feet. 3-1/4 inches westerly from the point of intersection thereof with the westerly line of San Pablo Avenue. As said avenues are shown on said Map; thence westerly along said line of 65th Street. 60 feet; thence at right angles southerly 138 feet. 1-1/2 inches to the northerly line of Peabody Lane as shown on said map; thence easterly along the last named line 60.24 feet to a line drawn southerly from the point of beginning at right angles to said line of 65th Street; thence northerly along said line so drawn 133.25 feet to the point of commencement.

PARCEL 3:

A portion of Lot 107, Block 7, Maxwell Tract, filed September 9, 1972, in Book 5 of Maps, Page 21, Alameda County Records, described as follows:

Beginning at a point on the southern line of 65th Street, formerly Dalton Avenue, distant thereon westerly 291 feet, 3-1/4 inches from the point of intersection thereof with the western line of San Pablo Avenue, as said street and avenue are shown on said map; thence westerly along said line of 6th Street 30 feet; thence at right angles southerly 133.25 feet to the northern line of Peabody Lane as said lane is shown on said Map; thence easterly along the last named line 30.12 feet to a line drawn southerly from the point of beginning and at right angles to said line of 65th Street; thence northerly along said line as drawn, 130.54 feet to the point of beginning.

PARCEL 4:

A portion of Lot 101, Block 7, Maxwell Tract, filed September 19, 1972, in Book 6 of Maps, Page 21, Alameda County Records, described as follows:

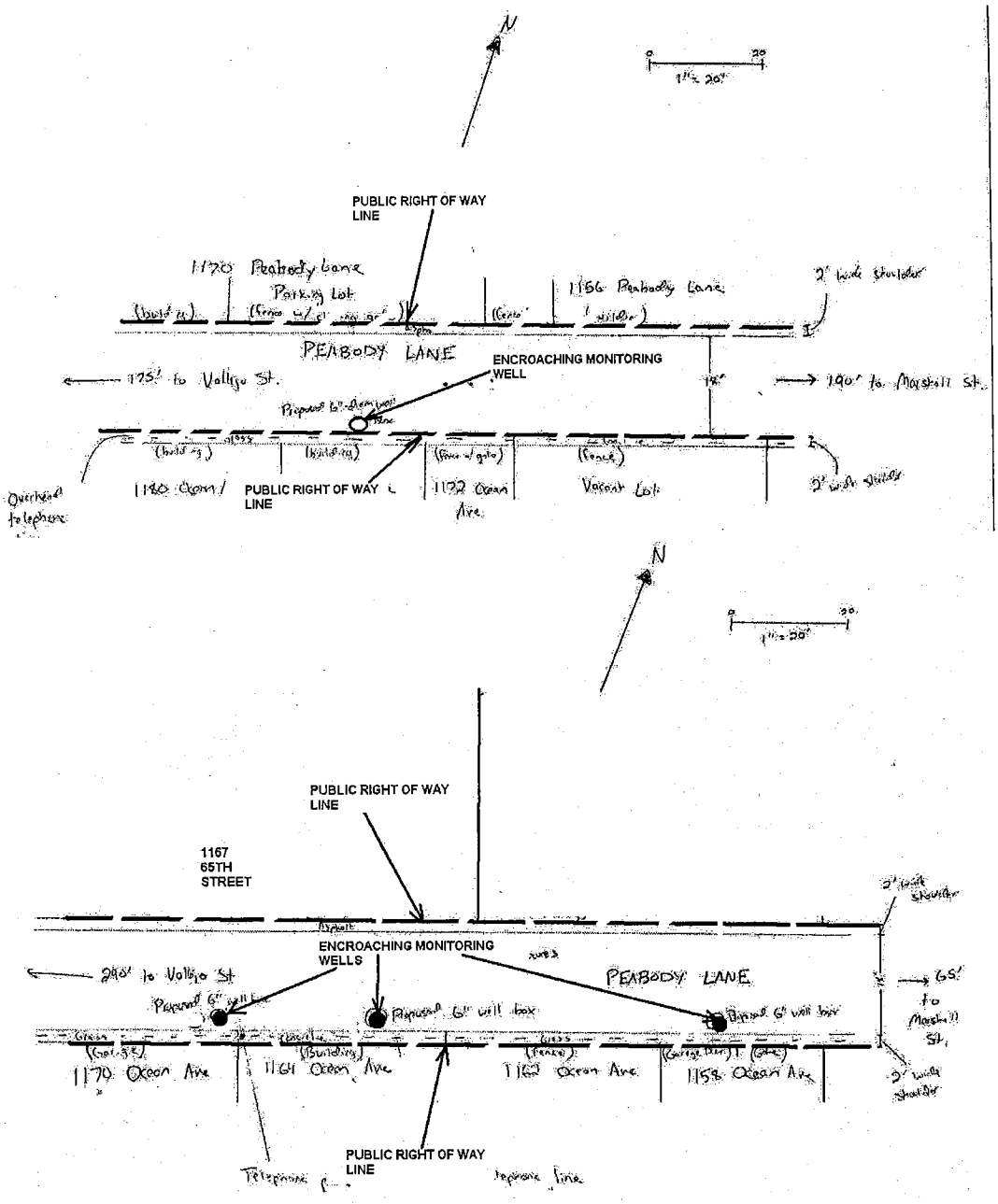
Beginning at a point on the Southern line of 65th Street (formerly Dalton Avenue) distant thereon 261 feet 3-1/4 inches westerly from the point of intersection thereof with the western line of San Pablo Avenue; thence westerly along said line of 65th Street 30 feet; thence at right angles southerly 230.54 feet to the northern line of Peabody Lane; thence easterly along the last named line 30.12 feet to a line drawn southerly from the point of commencement, and at right angles to said line of 65th Street; thence northerly along said line so drawn, 128.03 feet to the point of beginning.

A more legible copy is available for reviewing at the Office of the City Engineer, City of Oakland 250 Frank H. Ogawa Plaza 2nd Floor.

EXHIBIT C

Limits of the Encroachment in the Public Right-Of-Way

address 1167 65th Street. **parcel no.** 016 -1505-011-03



A more legible copy is available for reviewing at the Office of the City Engineer, City of Oakland 250 Frank H. Ogawa Plaza 2nd Floor.

NADY SYSTEMS, INC.
6701 Shellmound Street
Emeryville, CA 94608 USA
Tel: 510.652.2411 • Fax: 510.652.5075

please reply to extension 263

via hand delivery

July 27, 2009

Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis Street, Suite A
Emeryville, CA 94608

Re: 1137-1167 65th Street, Oakland, CA

Dear Mark:

Enclosed herewith please find the original City of Oakland Indenture Agreement, signed by Mr. Nady, for Encroachment Permit No. ENMI 09125.

Very truly yours,

Frederic D. Schrag
General Counsel

Encl.

Lcam73

APPENDIX D

BORING LOGS

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-3B
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	12-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	17-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	5 inches	**SCREENED INTERVALS**	17 to 24 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.5	
					CL		**Silty CLAY with Sand:** Olive grey; dry; 60% clay, 30% silt, 10% fine grained sand; moderate plasticity, low estimated permeability.	4.0	1" diam., Schedule 40 PVC
2		MW-3B -5		5	SM		**Clayey Silty SAND:** Moderate brown; moist; 45% sand, 40% silt, 15% clay; grey mottling; low plasticity, medium estimated permeability.	9.0	Portland Type I/II
0				10			**Clayey SILT:** Moderate yellowish brown; moist; 75% silt, 25% clay; moderate plasticity, low estimated permeability.		Bentonite Seal
0				15	ML		@ 15fbg Dark yellowish orange; dry; very stiff		Monterey Sand #2/12
0				20			**Clayey Sandy SILT with Gravel:** 40% silt, 30% fine grained sand, 20% clay 10% gravel; angular; gravel to 1/2" diameter; low plasticity; grey mottling observed	23.0	1"-diam., 0.010" Slotted Schedule 40 PVC
0					CL		**Silty Sandy CLAY:** Dark yellowish orange; 50% clay, 30% fine grained sand, 20% silt; grey mottling observed; low plasticity, low estimated permeability.	24.0	Bottom of Boring @ 24 fbg

WELL LOG (PID): I:\R\6-CHARS\5210-\521000-\152BBE5-\1521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-3C
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	13-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	5 inches	**SCREENED INTERVALS**	27 to 38 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	12.00 fbg (11-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.5	
					CL		**Silty CLAY with Sand:** Olive grey; dry; 60% clay, 30% silt, 10% sand; moderate plasticity, low estimated permeability.	3.0	
					ML		**Clayey Sandy SILT:** Moist, 40% silt, 40% sand, 20% clay; low plasticity	4.0	
0		MW-3C -5		5	CL		**Silty CLAY:** Moderate brown; dry; 60% clay, 40% silt; high plasticity, low estimated permeabilty. @ 5fbg Light olive	9.0	
8		MW-3C -10		10	ML		**Clayey SILT with Sand:** Moderate yellowish brown; dry; 70% silt, 25% clay, 5% coarse grained sand; anuglar to sub-angular; moderate plasticity, low estimated permeability. ▽		1" diam., Schedule 40 PVC; Portland Type I/II
0		MW-3C -15		15			**Clayey SILT:** Dark yellowish orange; stiff; 70% silt, 30% clay; low plasticity, low estimated permeability.		
0		MW-3C -20		20			**Clayey Sandy SILT with Gravel:** 50% silt, 20% clay, 20% fine grained sand, 10% gravel to 1/2" diameter; angular	23.5	
0		MW-3C -25		25	CL		**Silty CLAY:** Dark yellowish orange; moist; 70% clay, 30% silt; high plasticity, low estimated permeability; grey mottling observed	25.0	

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-3C
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	13-Aug-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					CL			28.5	Bentonite Seal; Monterey Sand #2/12
0		MW-3C -30		30	SM		**Silty SAND with Clay:** Dark yellowish orange; wet; 50% sand, 40% silt, 10% clay; fine to medium grain; low plasticity, low estimated permeability.		
0		MW-3C -35		35			**Clayey Silty SAND with Gravel:** Greyish orange; wet; 40% sand, 35% silt, 20% clay, 5% gravel; gravel to 1/2" diameter; angular; low plasticity, low estimated permeability.	38.5	1"-diam., 0.010" Slotted Schedule 40 PVC; Bentonite Plug
0		MW-3C -40		40	ML		**Clayey SILT:** Greyish orange; wet; 70% silt, 30% clay; moderate plasticity, low estimated permeability; grey mottling observed	40.0	Bottom of Boring @ 40 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210-\521000-\152BBE5-1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-7B
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	14-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	5 inches	**SCREENED INTERVALS**	17 to 24 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	12.00 fbg (11-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Concrete	0.5
20					CL		**Silty CLAY with Sand:** Moderate brown; moist; 60% clay, 30% silt, 10% sand, fine to medium grain; moderate plasticity, low estimated permeability	
20		MW-7B -5		5				
					ML		**Clayey SILT:** Greyish olive; moist; 70% silt, 30% clay; low plasticity, low estimated permeability	6.0
					SM		**Silty Gravelly SAND:** Greyish olive; wet; 50% sand, 30% gravel, 20% silt; medium to coarse grain; gravel up to 1/2" diameter; angular; low plasticity, low estimated permeability.	9.0
				10			**Clayey Sandy SILT:** Greyish olive; 50% silt, 30% sand, 20% clay; moderate plasticity, low estimated permeability. ▽	11.0
							Clayey SILT: 80% silt, 20% clay; rust colored mottling	
							Clayey Sandy SILT: 40% silt, 40% fine grained sand, 20% clay	
				15	ML			
							@ 18.5 fbg; 60% silt, 20% clay, 20% sand; Fine to medium grain; dark grey nodules observed	
				20			**Clayey SILT with Sand:** 60% silt, 30% clay, 10% sand.	
					ML		**Clayey SILT:** Moist; 70% silt, 30% clay; stiff; moderate plasticity	23.5 24.0
							Bottom of Boring @ 24 fbg	

WELL DIAGRAM: Portland Type I/II; Bentonite Seal; Monterey Sand #2/12; 1"-diam., 0.010" Slotted Schedule 40 PVC

WELL LOG (PID) I:\IR\6-CHARS\5210--\521000-1\52BBE5-1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-7C
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	14-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hollow-stem auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	5 inches	**SCREENED INTERVALS**	25 to 35 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	12.00 fbg (11-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.3	
					CL		**Silty CLAY with Sand:** Moderate brown; wet; 60% clay, 30% silt, 10% sand; fine to medium grain; moderate plasticity, low estimated permeability.		
10		MW-7C -5		5				6.0	
148		MW-7C -7			ML		**Clayey SILT:** Greyish olive; moist; 60% silt, 40% clay; low plasticity, low estimated permeability. **Sandy SILT with Gravel:** 50% silt, 30% sand, 20% gravel; Fine to coarse grain; gravel to 1/2" diameter; angular		◄ 1" diam., Schedule 40 PVC
580		MW-7C -8.5						9.0	
86		MW-7C -10		10	SM		**Silty Gravelly SAND:** Blue; moist; 50% sand, 30% gravel, 20% silt; medium to coarse grain; angular to subangular; low plasticity, low estimated permeability, increasing silt content with depth.		◄ Portland Type I/II
12							▽ @ 12 fbg Light olive grey	12.5	
0							**Clayey Sandy SILT:** Pale yellowish brown; moist; 50% silt, 30% sand, 20% clay; fine to medium grain; moderate plasticity, low estimated permeability.		
0							**Clayey SILT:** 80% silt, 20% clay; Stiff; rust color mottling observed		
0				15			**Clayey Sandy SILT with Gravel:** 40% silt, 35% sand, 20% clay, 5% gravel; Fine grained sand; gravel to 3/4" diameter.		
0									
0					ML		**Clayey SILT with Sand:** 65% silt, 30% clay, 5% sand; Fine to medium grain; angular; low plasticity; decreasing sand content with depth		
1		MW-7C -20		20					◄ Bentonite Seal
0							**Clayey SILT:** Light brown; dry; 70% silt, 30% clay, very stiff		◄ Monterey Sand #2/12
0				25				25.0	

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	MW-7C
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	14-Aug-09

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0							@ 25 fbg Dark grey nodules		Lonestar Sand #3
				30	ML		**Gravelly SILT with Sand and Clay:** Wet; 60% silt, 20% gravel, 10% clay, 10% sand; fine grain; gravel to 1/2" diameter		1"-diam., 0.010" Slotted Schedule 40 PVC
							Clayey SILT: Moist; 60% silt, 40% clay; moderate plasticity, low estimated permeability; increasing clay content with depth.		
0		MW-7C -35		35				35.0	Bottom of Boring @ 35 fbg

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-26
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	17-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	17-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	1.5 inches	**SCREENED INTERVALS**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	21.00 fbg (17-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	10.50 fbg (17-Aug-09) ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							3" Concrete	0.3	
							Clayey SILT with Sand 60% silt, 30% clay, 10% sand.		
					ML		**Clayey Sandy SILT:** Dark brown; dry; 40% silt, 40% sand, 20% clay; medium grained sand; moderate plasticity, low estimated permeability. Light Brown		
10				5					
								7.5	
							Silty CLAY with Sand: Light olive grey; dry; 60% clay, 30% silt, 10% sand; fine to medium grained sand; angular to subangular; moderate plasticity, low estimated permeability.		
97		SB-26 -10		10					
12							**Silty Sandy CLAY:** Light brown; 40% clay, 30% sand, 20% silt, 10% gravel; fine to coarse grain, gravel 1/2" to 3/4" diameter, angular to subangular		Portland Type I/II
0				15					
2		SB-26 -16			CL		**Silty Sandy CLAY:** 40% clay, 40% sand, 20% silt; Medium to coarse grain @ 15 fbg 60% clay, 20% silt, 20% sand; Moist; fine to coarse grain; refusal at 15 fbg, return with Geoprobe		
				20			@ 20 fbg; 50% clay, 30% silt, 20% sand; Stiff		
				25				25.0	

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-26
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	17-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	17-Aug-09

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
10		SB-26 -25		30	CL		@ 40fbg Grey mottling observed	40.0	Portland Type I/II Bottom of Boring @ 40 fbg
				35					
				40					

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-27
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	12-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	12-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2 inches	**SCREENED INTERVALS**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	24.00 fbg (12-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	7.00 fbg (12-Aug-09) ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
0							**Silty CLAY trace sand:** Light brown; dry; 80% clay, 15% silt, 5% sand; medium grain; high plasticity, low estimated permeability.		
				5			**Silty Sandy CLAY:** 70% clay, 15% silt, 15% sand; Fine grain; moderate plasticity, low estimated permeability; grey mottling observed. ▼		
0		SB-27 -10		10	CL		@ 9fbg 70% clay, 10% silt, 10% sand, 10% gravel; Gravel to 1/4" - 1/2" diameter; angular; increasing sand content with depth.		◄ Portland Type I/II
				15			**Sandy CLAY with Silt:** Moist 60% clay, 30% sand, 10% silt; ; fine to coarse grain; low plasticity, low estimated permeability		
0		SB-27 -20		20			**Silty CLAY with Sand:** 70% clay, 20% silt, 10% sand; Moderate plasticity; grey mottling observed. **Gravelly Silty Sandy CLAY:** 30% clay, 30% gravel, 20% silt, 20% sand; 3" layer gravel to 1/2" diamter; angular; low plasticity, moderate estimated permeability. **Sandy CLAY with Silt:** 60% clay, 30% sand, 10% silt; Moderate plasticity, low estimated permeability.		
0		SB-27 -24		25			▽ **Silty SAND with Clay and Gravel:** Light brown; wet; 50% sand, 30% silt, 10% clay, 10% gravel; fine to coarse grain;	24.0	

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-27
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	12-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	12-Aug-09

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PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM		gravel to 1/4" - 1/2" diameter; angular		
								27.0	
					CL		**Sandy CLAY with Silt and Gravel:** 50% clay, 30% sand, 10% silt, 10% gravel; Grey mottling observed		
				30				30.0	
					SC		**Clayey Gravelly SAND with Silt:** Pale brown; 50% sand, 20% clay, 20% gravel, 10% silt; fine to coarse grained sand; gravel to 1/4" to 1/2" diameter; angular; low plasticity. high estimated permeability.		Portland Type I/II
				35				36.0	
							Hydropunch Sample Collected		
				40				40.0	Bottom of Boring @ 40 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210--\521000--\52BBE5~1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-28
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	17-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	17-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hydraulic push	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	2 inches	**SCREENED INTERVALS**	NA
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	21.00 fbg (17-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.5	
							Clayey SILT with Sand: Pale brown; dry; 60% silt, 30% clay, 10% sand; low plasticity, low estimated permeability.		
0				5	ML		**Sandy SILT with Clay** 60% silt, 30% sand, 10% clay.		
							Clayey SILT with Sand: Light brown; 50% silt, 40% clay, 10% sand; fine to medium grain.		
0				10	GW		**Sandy GRAVEL with Silt:** Light olive grey; dry; 60% gravel, 30% sand, 10% silt; fine to coarse grained sand; gravel to 1" diameter; angular; low plasticity, high estimated permeability.	10.0 11.0	
							Silty Sandy CLAY with Gravel: Moderate brown; dry; 40% clay, 30% sand, 20% silt, 10% gravel; fine to coarse grained sand; clay nodules; gravel to 3/4" diameter; angular to sub-angular; low plasticity, low estimated permeability; decreasing gravel content to depth		Portland Type I/II
0		SB-28 -16		15	CL		@ 15 fbg Grey mottling observed		
0		SB-28 -20		20			**Silty CLAY:** 70% clay, 30% silt; Moderate plasticity, low estimated permeability; grey mottling observed ▽	21.0	
					SM		**Silty SAND with Clay and Gravel:** Wet; 50% sand, 30% silt, 10% clay, 10% gravel; fine to coarse grained sand; low plasticity, high estimated permeability.		
				25				25.0	

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	SB-28
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	17-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	17-Aug-09

Continued from Previous Page

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
					SM			27.0	
				30	CL		**Sitly Sandy CLAY with Gravel:** Dry; stiff; 50% clay, 20% silt, 20% sand, 10% gravel; moderate plasticity, low estimated permeability. Hydropunch sample collected	35.0	Portland Type I/II Bottom of Boring @ 35 fbg
				35					

WELL LOG (PID) I:\IR\6-CHARS\5210--\521000--\52BBE5--\521000-GINT.GPJ DEFAULT.GDT 9/16/09

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-1 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	10-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete		
								0.5	
							Clayey SILT with Sand: Greyish olive; moist; fine grain; 50% silt, 40% Clay, 10% sand; low plasticity; low estimated permeability.		1/4" Nylaflow® tubing
					ML				
252									Dry Granular Bentonite
							Clayey Sandy SILT: Green; 50% silt, 30% clay, 20% sand.		Monterey Sand #2/12
348									1/2" Vapor Point
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210--\521000~1\52BBE5~1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-2 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	10-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete		
							Clayey Sandy SILT: Greyish olive; moist, fine to medium grain; 40% silt, 40% sand, 20% clay; moderate plasticity, low estimated permeability.	0.5	
					ML				1/4"Nylaflow® tubing
									Dry Granular Bentonite
								4.0	
22					CL		**Silty CLAY with Sand:** Greyish olive; 60% clay, 30% silt, 10% sand fine to medium grain		Monterey Sand #2/12
									1/2" Vapor Point
				5				5.0	Bottom of Boring @ 5 fbg

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BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-3 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	10-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete	0.5	
					ML		**Clayey SILT with Sand:** Greyish olive; moist; 50% silt, 40% clay, 10% sand fine to medium grain; moderate plasticity; low estimated permeability.		1/4" Nylaflow® tubing
283				5				5.0	Dry Granular Bentonite Monterey Sand #2/12 1/2" Vapor Point Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210-\521000-\152BBE5~1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-4 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	10-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Concrete		
								0.5	
					ML		**Clayey SILT with Sand:** Olive grey; moist; 60% silt, 30% clay, 10% sand, moderate plasticity, low estimated permeability.		1/4" Nylaflow® tubing
15									Dry Granular Bentonite
									Monterey Sand #2/12
									1/2" Vapor Point
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210-\521000-\152BBE5-1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-5 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	10-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	10-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	3.25 to 3.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	4.50 fbg (10-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.3	1/4" Nylaflow® tubing
25					ML		**Clayey SILT with Sand:** Greyish olive; moist; 50% silt, 40% clay, 10% fine grained sand; moderate plasticity, low estimated permeability.		Dry Granular Bentonite
							▽ Groundwater encoutered at 4.5 fbg; backfilled to 4 fbg	4.5	Monterey Sand #2/12 1/2" Vapor Point Bottom of Boring @ 4.5 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210-\521000-\152BBE5-\1521000-GINT.GPJ DEFAULT.GDT 9/16/09

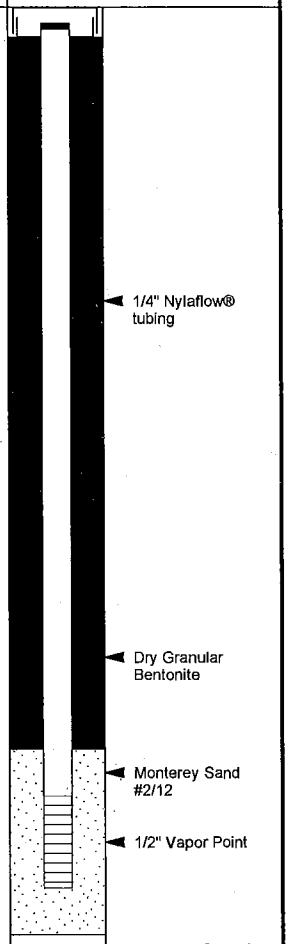
CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-6 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	11-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	11-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Asphalt	0.3
							Fill	0.5
0					CL		**Silty CLAY with Sand:** Grayish brown; dry; 50% clay, 40% silt, 10% sand,moderate plasticity, low estimated permeability; decreasing silt content with depth.	
0				5			@ 4 fbg Light olive grey; 80% clay, 15% silt, 5% medium grained sand; rust color mottling; high plasticity	5.0

WELL DIAGRAM



WELL LOG (PID) I:\IR6-CHARS\5210-\521000-\152BBE5~1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-7 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	11-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	11-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	3.25 to 3.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	4.30 fbg (11-Aug-09) ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)
							Asphalt	0.3
							Fill	0.5
							Clayey SILT with Sand: Moderate brown; dry; 60% silt, 30% clay, 10% medium grained sand; moderate plasticity; low estimated permeability.	
5					ML		@ 3.5 fbg **Clayey SILT** Moderate brown; dry; 60% silt, 40% clay.	
							▽ Groundwater encountered	4.3

WELL DIAGRAM

- 1/4" Nylaflow® tubing
- Dry Granular Bentonite
- Monterey Sand #2/12
- 1/2" Vapor Point

Bottom of Boring @ 4.3 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210--\521000--\152BBE5--\521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-8 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	11-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	11-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt	0.3	
							Fill	0.5	
0					ML		**Clayey SILT with Sand:** Moderate brown; dry; 60% silt, 30% clay, 10 % medium grained sand; moderate plasticity, low estimated permeability		1/4" Nylaflow® tubing; Dry Granular Bentonite
0				5	CL		**Silty CLAY with Sand:** Light olive grey; dry; 75% clay, 15% silt, 10% medium grained sand; rust color mottling; high plasticity, low estimated permeability.	4.0 5.0	Monterey Sand #2/12; 1/2" Vapor Point Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\IR\6-CHARS\5210-\521000-\152BBE5~1\521000-GINT.GPJ DEFAULT.GDT 9/16/09

CRA, Inc.
5900 Hollis Street, Suite A
Emeryville, CA 94608
Telephone: 510-420-0700
Fax: 510-420-9170

BORING / WELL LOG

CLIENT NAME	John Nady	**BORING/WELL NAME**	VW-9 (Vapor Probe)
JOB/SITE NAME	Nady Trust	**DRILLING STARTED**	20-Aug-09
LOCATION	1137-1167 65th Street, Oakland, California	**DRILLING COMPLETED**	20-Aug-09
PROJECT NUMBER	521000	**WELL DEVELOPMENT DATE (YIELD)**	NA
DRILLER	Gregg Drilling & Testing, Inc.	**GROUND SURFACE ELEVATION**	NA
DRILLING METHOD	Hand Auger	**TOP OF CASING ELEVATION**	NA
BORING DIAMETER	3 inches	**SCREENED INTERVALS**	4.25 to 4.75 fbg
LOGGED BY	J. Bostick	**DEPTH TO WATER (First Encountered)**	NA ▽
REVIEWED BY	M. Jonas, P.G.	**DEPTH TO WATER (Static)**	NA ▼
REMARKS			

PID (ppm)	BLOW COUNTS	SAMPLE ID	EXTENT	DEPTH (fbg)	U.S.C.S.	GRAPHIC LOG	LITHOLOGIC DESCRIPTION	CONTACT DEPTH (fbg)	WELL DIAGRAM
							Asphalt		
								0.5	
					ML		**Clayey SILT with Sand:** Greyish olive; moist; 50% silt, 40% clay, 10% fine grained sand; low plasticity, low estimated permeability.		1/4" Nylaflow® tubing
							Sandy Clayey SILT: Green; 50% silt, 30% clay, 20% sand; low plasticity, low estimated permeability.		Dry Granular Bentonite Monterey Sand #2/12 1/2" Vapor Point
				5				5.0	Bottom of Boring @ 5 fbg

WELL LOG (PID) I:\R\6-CHARS\5210--\521000--\152BBE5--\521000-GINT.GPJ DEFAULT.GDT 9/16/09

APPENDIX E

CONE PENETRATION TEST RESULTS

GREGG DRILLING & TESTING, INC.
GEOTECHNICAL AND ENVIRONMENTAL INVESTIGATION SERVICES

August 21, 2009

CRA
Attn: Mark Jonas
5900 Hollis St., Suite A
Emeryville, California 94608

Subject: CPT Site Investigation
NADY
Oakland, California
GREGG Project Number: 09-131MA

Dear Mr. Jonas:

The following report presents the results of GREGG Drilling & Testing's Cone Penetration Test investigation for the above referenced site. The following testing services were performed:

1	Cone Penetration Tests	(CPTU)	☒
2	Pore Pressure Dissipation Tests	(PPD)	☒
3	Seismic Cone Penetration Tests	(SCPTU)	☐
4	Resistivity Cone Penetration Tests	(RCPTU)	☐
5	UVOST Laser Induced Fluorescence	(UVOST)	☐
6	Groundwater Sampling	(GWS)	☒
7	Soil Sampling	(SS)	☐
8	Vapor Sampling	(VS)	☐
9	Vane Shear Testing	(VST)	☐
10	SPT Energy Calibration	(SPTE)	☐

A list of reference papers providing additional background on the specific tests conducted is provided in the bibliography following the text of the report. If you would like a copy of any of these publications or should you have any questions or comments regarding the contents of this report, please do not hesitate to contact our office at (925) 313-5800.

Sincerely,
GREGG Drilling & Testing, Inc.

Mary Walden
Operations Manager

Cone Penetration Test Sounding Summary

-Table 1-

CPT Sounding Identification	Date	Termination Depth (Feet)	Depth of Groundwater Samples (Feet)	Depth of Soil Samples (Feet)	Depth of Pore Pressure Dissipation Tests (Feet)
CPT-MIP-01	8/17/09	48	-	-	-
CPT-MIP-02	8/17/09	49	-	-	-
CPT-MIP-03	8/17/09	49	-	-	-
CPT-MIP-04	8/17/09	49	-	-	-
CPT-MIP-05	8/18/09	48	-	-	-
CPT-MIP-06	8/19/09	48	-	-	-
CPT-MIP-07	8/19/09	48	-	-	-
CPT-MIP-08	8/19/09	48	-	-	-
CPT-MIP-09	8/19/09	48	-	-	-
CPT-MIP-10	8/18/09	49	-	-	-
CPT-MIP-11	8/18/09	63	60	-	-
CPT-MIP-12	8/18/09	48	-	-	-
CPT-MIP-13	8/20/09	49	-	-	-
CPT-MIP-14	8/20/09	48	-	-	-
CPT-MIP-15	8/20/09	47	-	-	45.1

Bibliography

Lunne, T., Robertson, P.K. and Powell, J.J.M., "Cone Penetration Testing in Geotechnical Practice" E & FN Spon. ISBN 0 419 23750, 1997

Roberston, P.K., "Soil Classification using the Cone Penetration Test", Canadian Geotechnical Journal, Vol. 27, 1990 pp. 151-158.

Mayne, P.W., "NHI (2002) Manual on Subsurface Investigations: Geotechnical Site Characterization", available through www.ce.gatech.edu/~geosys/Faculty/Mayne/papers/index.html, Section 5.3, pp. 107-112.

Robertson, P.K., R.G. Campanella, D. Gillespie and A. Rice, "Seismic CPT to Measure In-Situ Shear Wave Velocity", Journal of Geotechnical Engineering ASCE, Vol. 112, No. 8, 1986 pp. 791-803.

Robertson, P.K., Sully, J., Woeller, D.J., Lunne, T., Powell, J.J.M., and Gillespie, D.J., "Guidelines for Estimating Consolidation Parameters in Soils from Piezocone Tests", Canadian Geotechnical Journal, Vol. 29, No. 4, August 1992, pp. 539-550.

Robertson, P.K., T. Lunne and J.J.M. Powell, "Geo-Environmental Application of Penetration Testing", Geotechnical Site Characterization, Robertson & Mayne (editors), 1998 Balkema, Rotterdam, ISBN 90 5410 939 4 pp 35-47.

Campanella, R.G. and I. Weemees, "Development and Use of An Electrical Resistivity Cone for Groundwater Contamination Studies", Canadian Geotechnical Journal, Vol. 27 No. 5, 1990 pp. 557-567.

DeGroot, D.J. and A.J. Lutenegger, "Reliability of Soil Gas Sampling and Characterization Techniques", International Site Characterization Conference - Atlanta, 1998.

Woeller, D.J., P.K. Robertson, T.J. Boyd and Dave Thomas, "Detection of Polyaromatic Hydrocarbon Contaminants Using the UVIF-CPT", 53rd Canadian Geotechnical Conference Montreal, QC October pp. 733-739, 2000.

Zemo, D.A., T.A. Delfino, J.D. Gallinatti, V.A. Baker and L.R. Hilpert, "Field Comparison of Analytical Results from Discrete-Depth Groundwater Samplers" BAT EnviroProbe and QED HydroPunch, Sixth national Outdoor Action Conference, Las Vegas, Nevada Proceedings, 1992, pp 299-312.

Copies of ASTM Standards are available through www.astm.org

GREGG

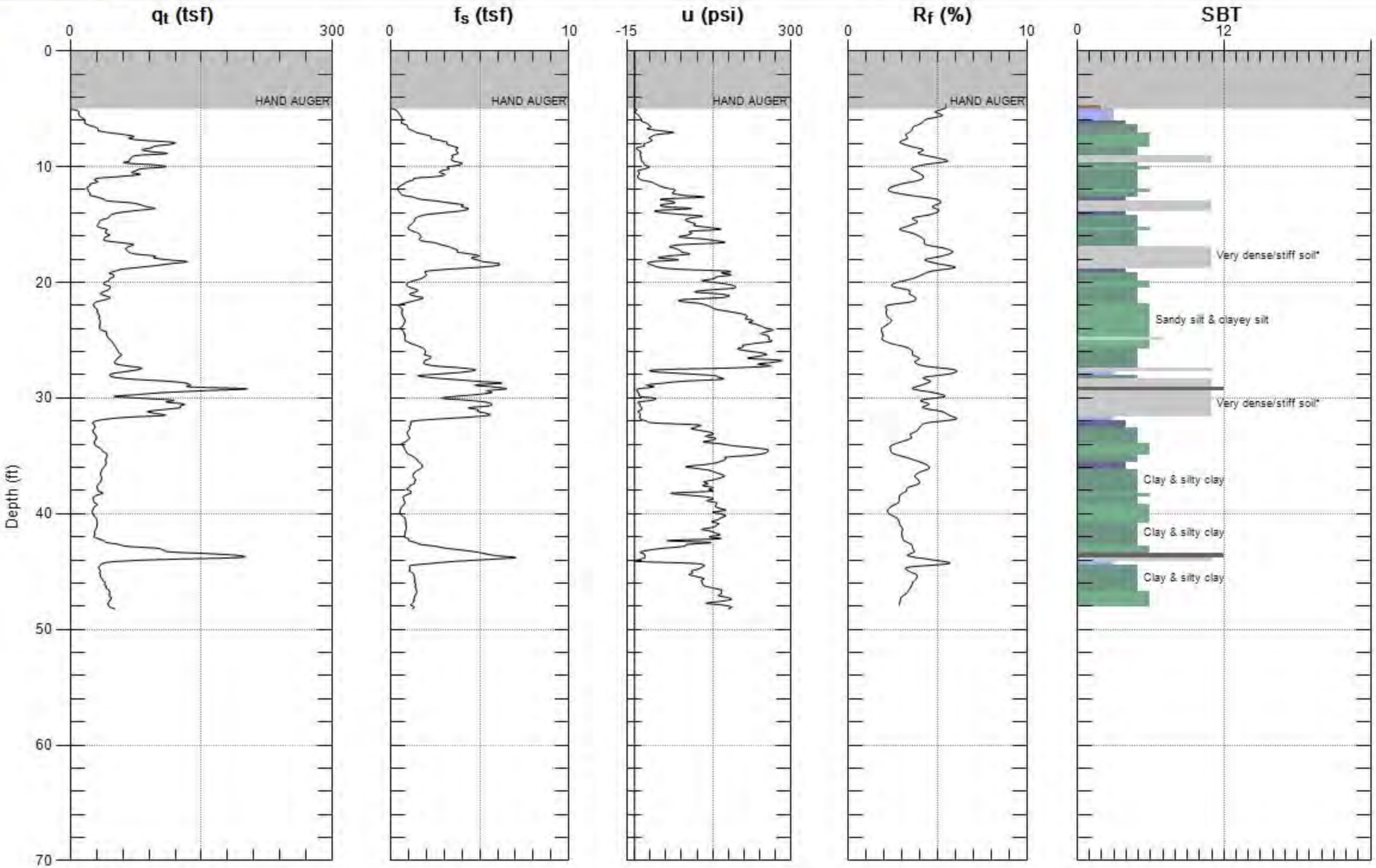
CRA

Site: NADY

Sounding: CPT-MIP-01

Engineer: M.JONAS

Date: 8/17/2009 08:23



Max. Depth: 48.228 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

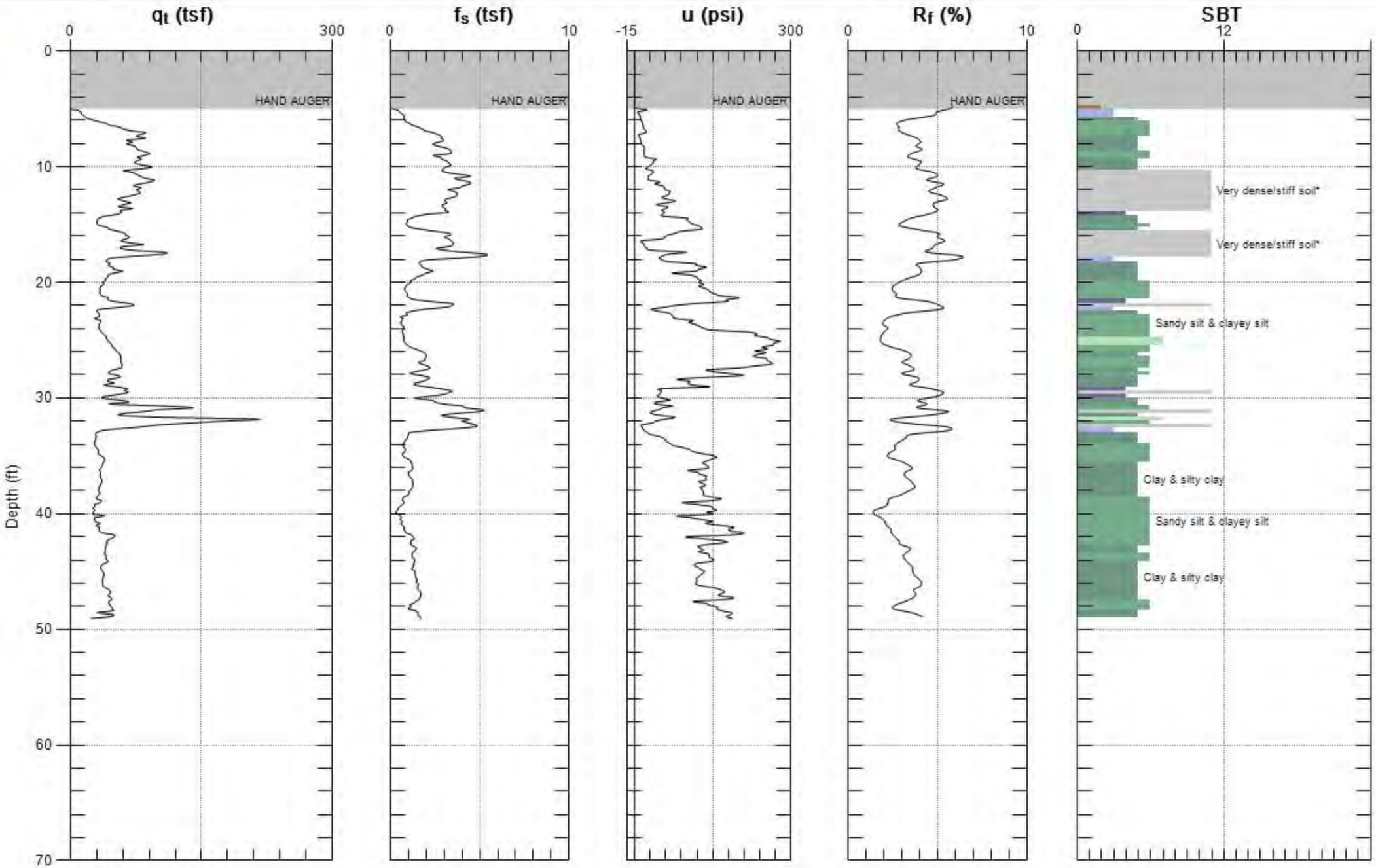
CRA

Site: NADY

Sounding: CPT-MIP-02

Engineer: M.JONAS

Date: 8/17/2009 11:47



Max. Depth: 49.049 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

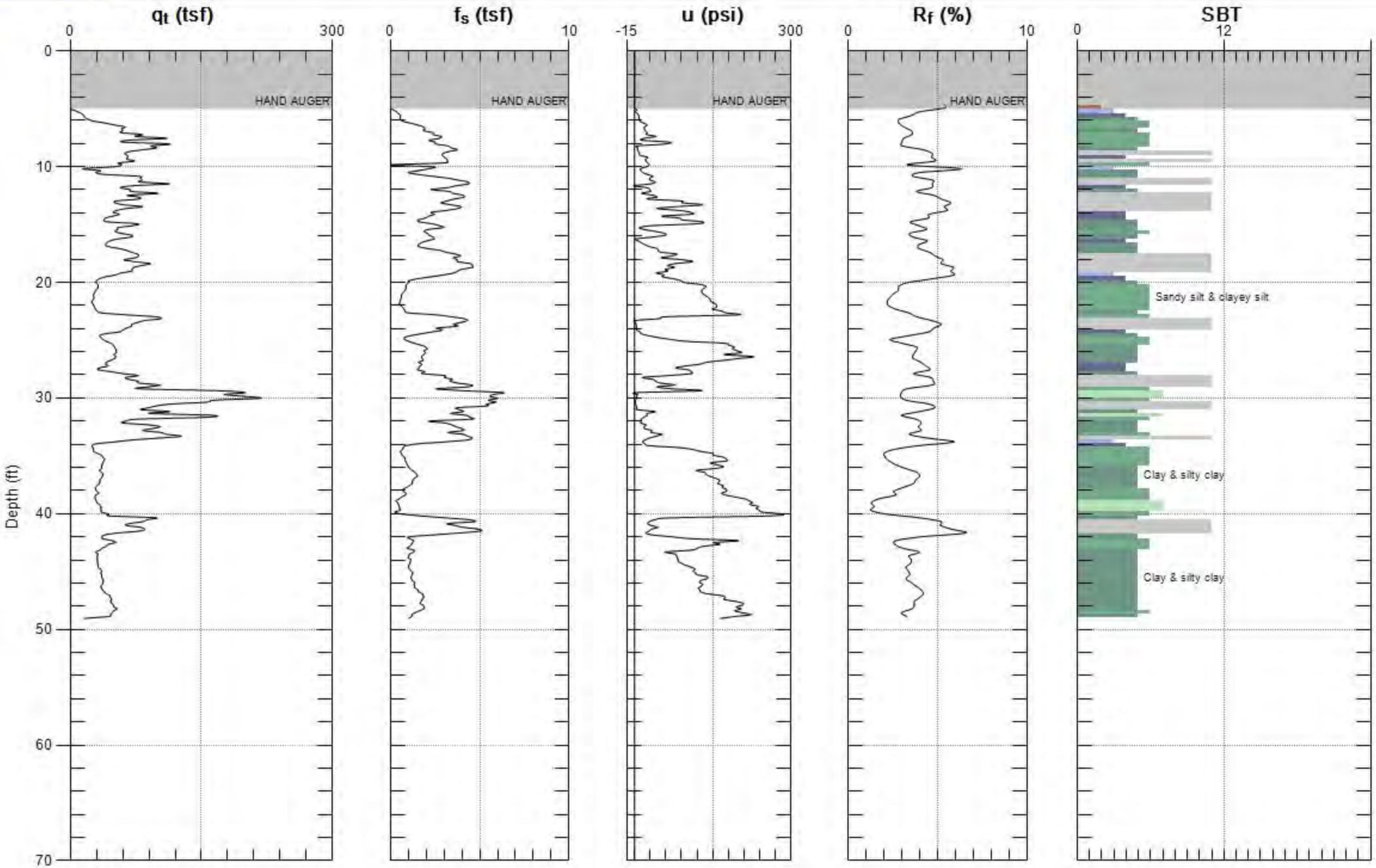
CRA

Site: NADY

Sounding: CPT-MIP-03

Engineer: M.JONAS

Date: 8/17/2009 01:54



Max. Depth: 49.049 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

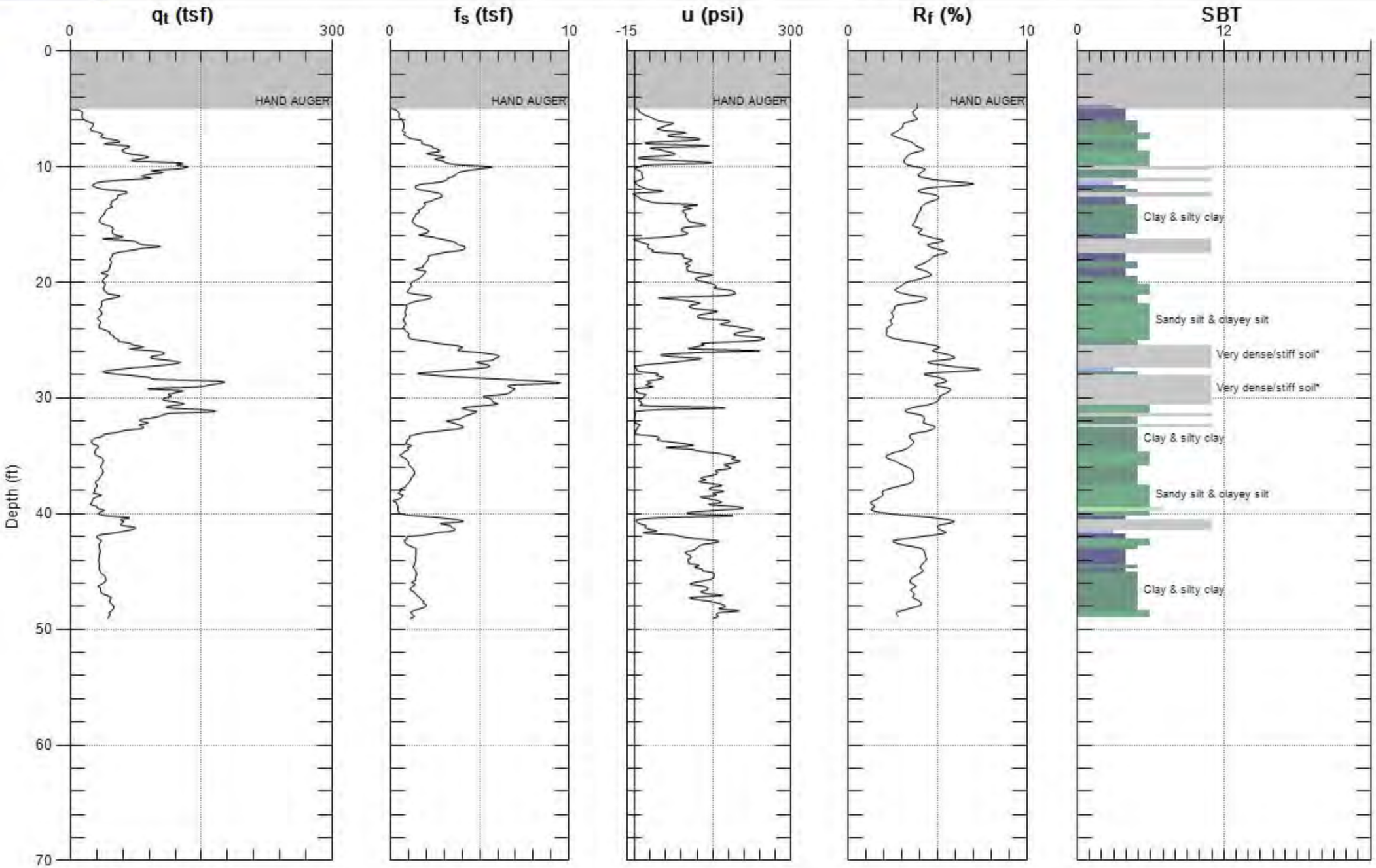
CRA

Site: NADY

Sounding: CPT-MIP-04

Engineer: M.JONAS

Date: 8/17/2009 03:12



Max. Depth: 49.049 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

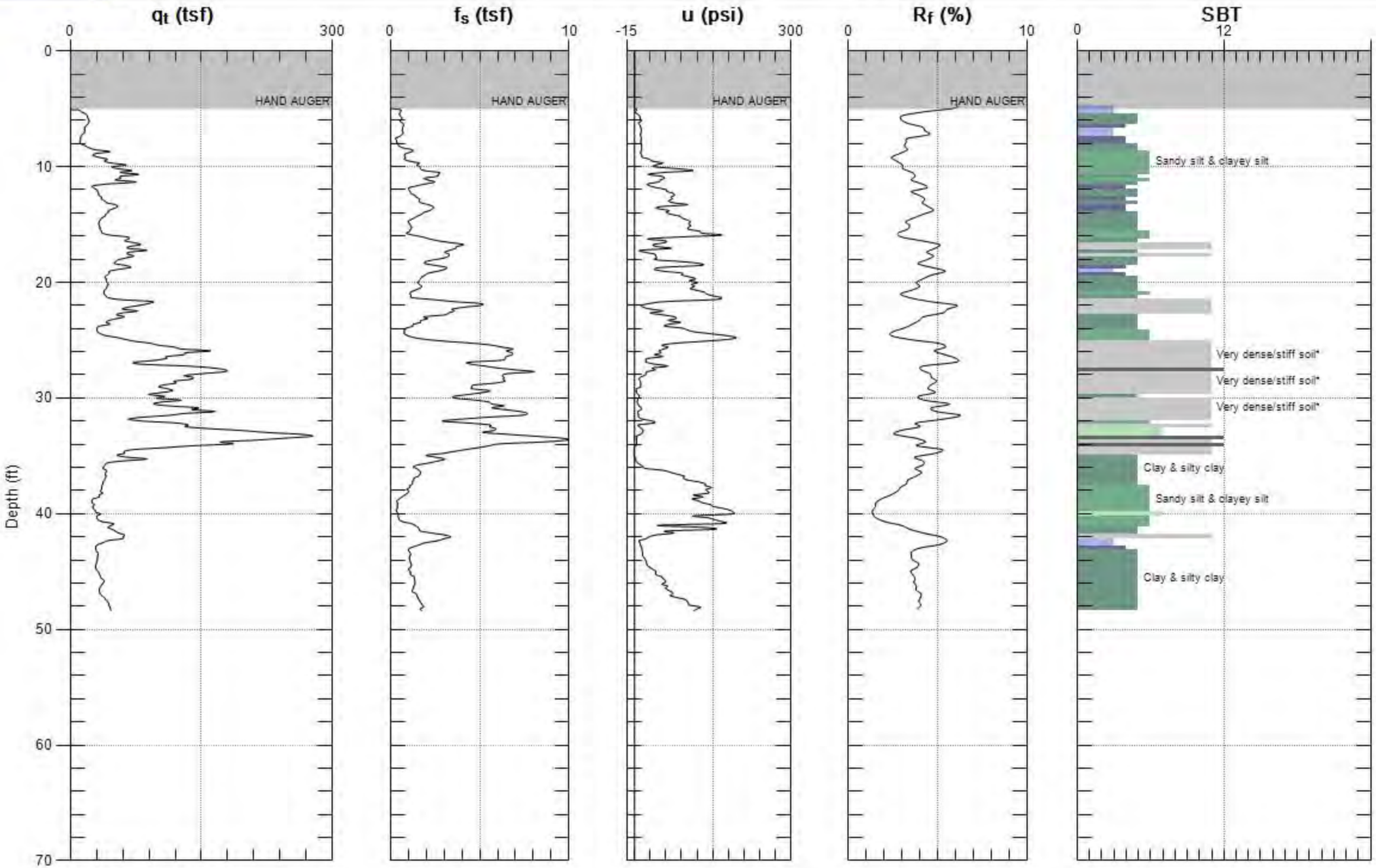
CRA

Site: NADY

Sounding: CPT-MIP-05

Engineer: M.JONAS

Date: 8/18/2009 06:59



Max. Depth: 48.392 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

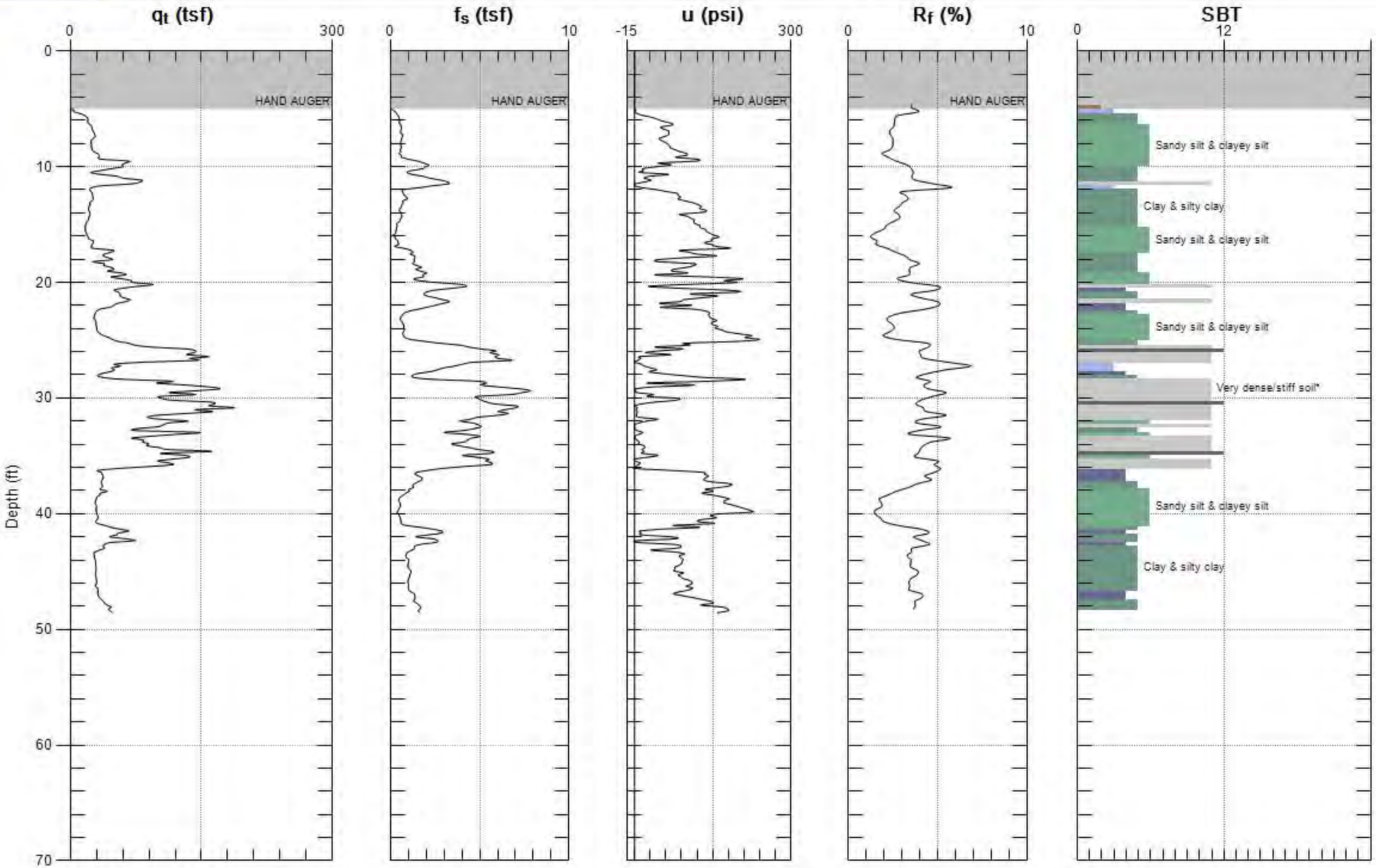
CRA

Site: NADY

Sounding: CPT-MIP-06

Engineer: M.JONAS

Date: 8/19/2009 07:12



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Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

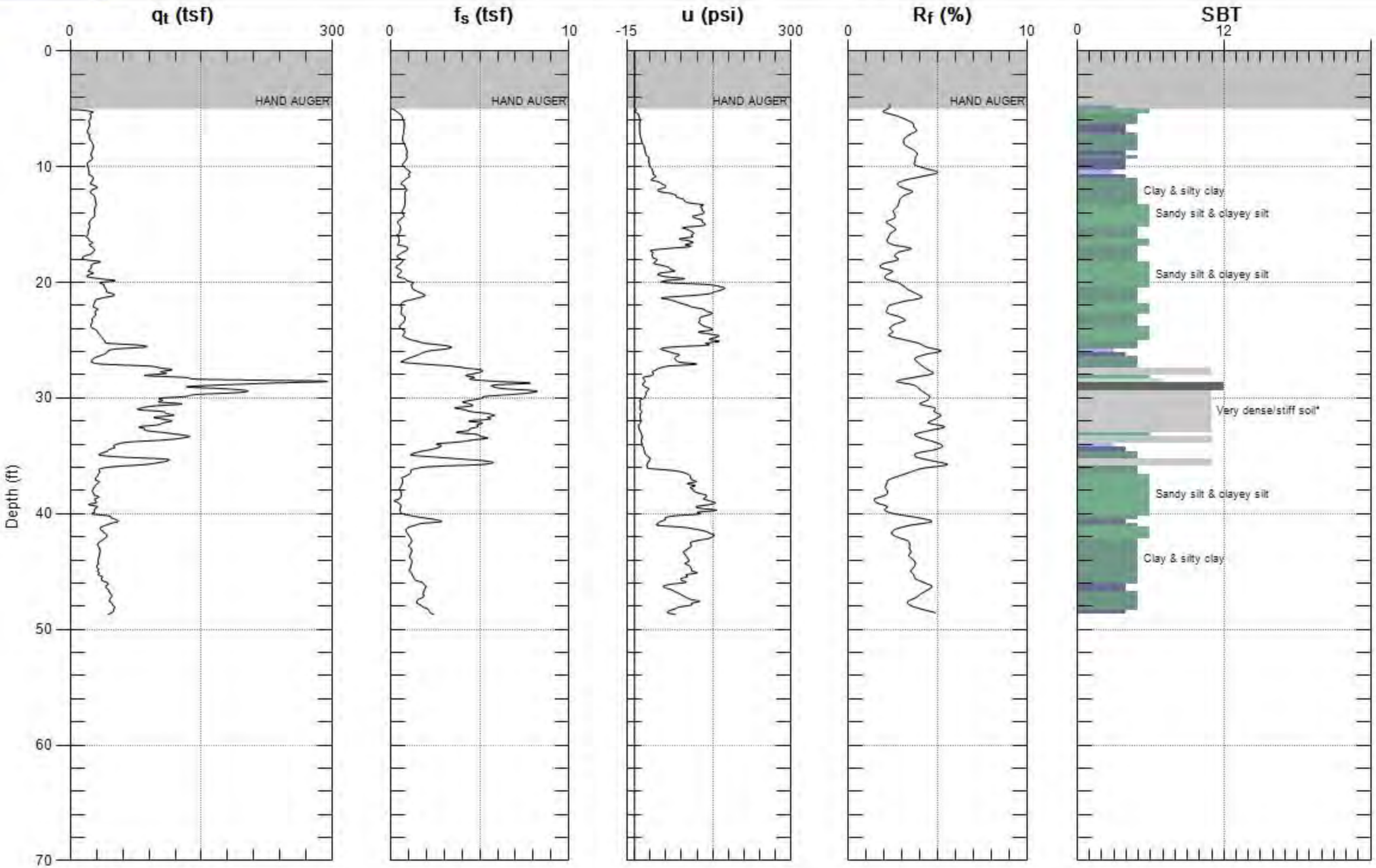
CRA

Site: NADY

Sounding: CPT-MIP-07

Engineer: M.JONAS

Date: 8/19/2009 09:23



Max. Depth: 48.720 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

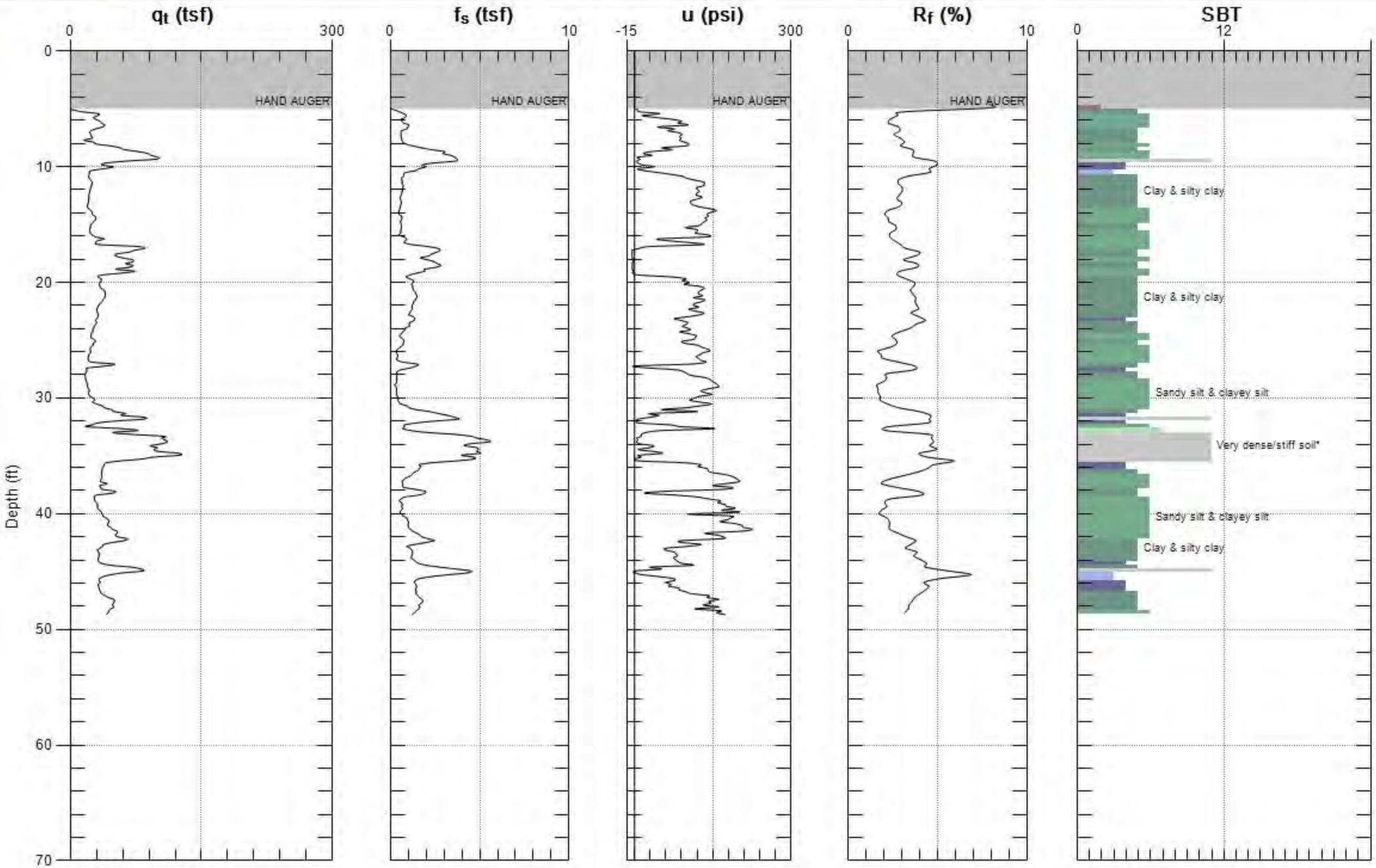
CRA

Site: NADY

Sounding: CPT-MIP-08

Engineer: M.JONAS

Date: 8/19/2009 11:02



Max. Depth: 48.720 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

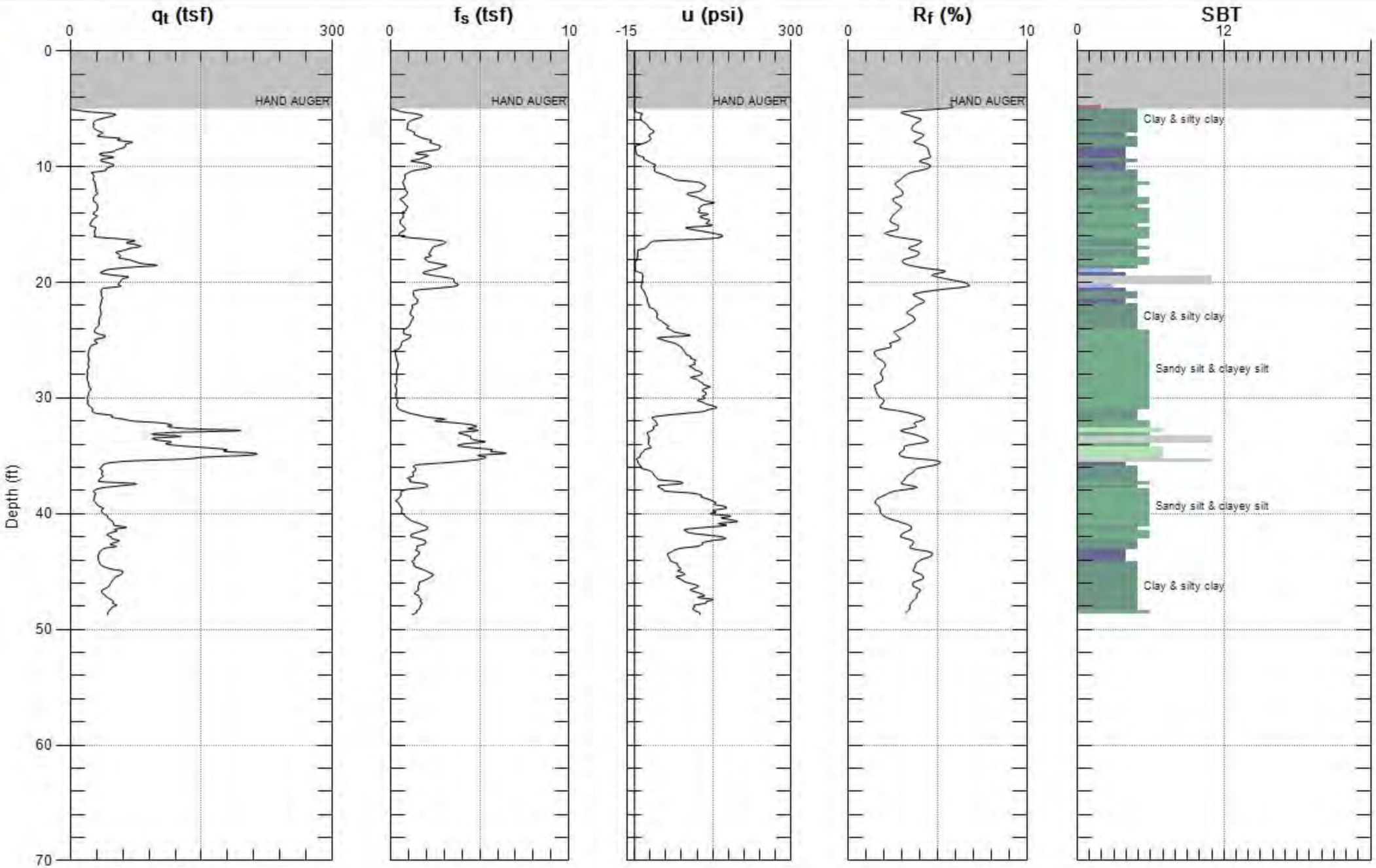
CRA

Site: NADY

Sounding: CPT-MIP-09

Engineer: M.JONAS

Date: 8/19/2009 01:41



Max. Depth: 48.720 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

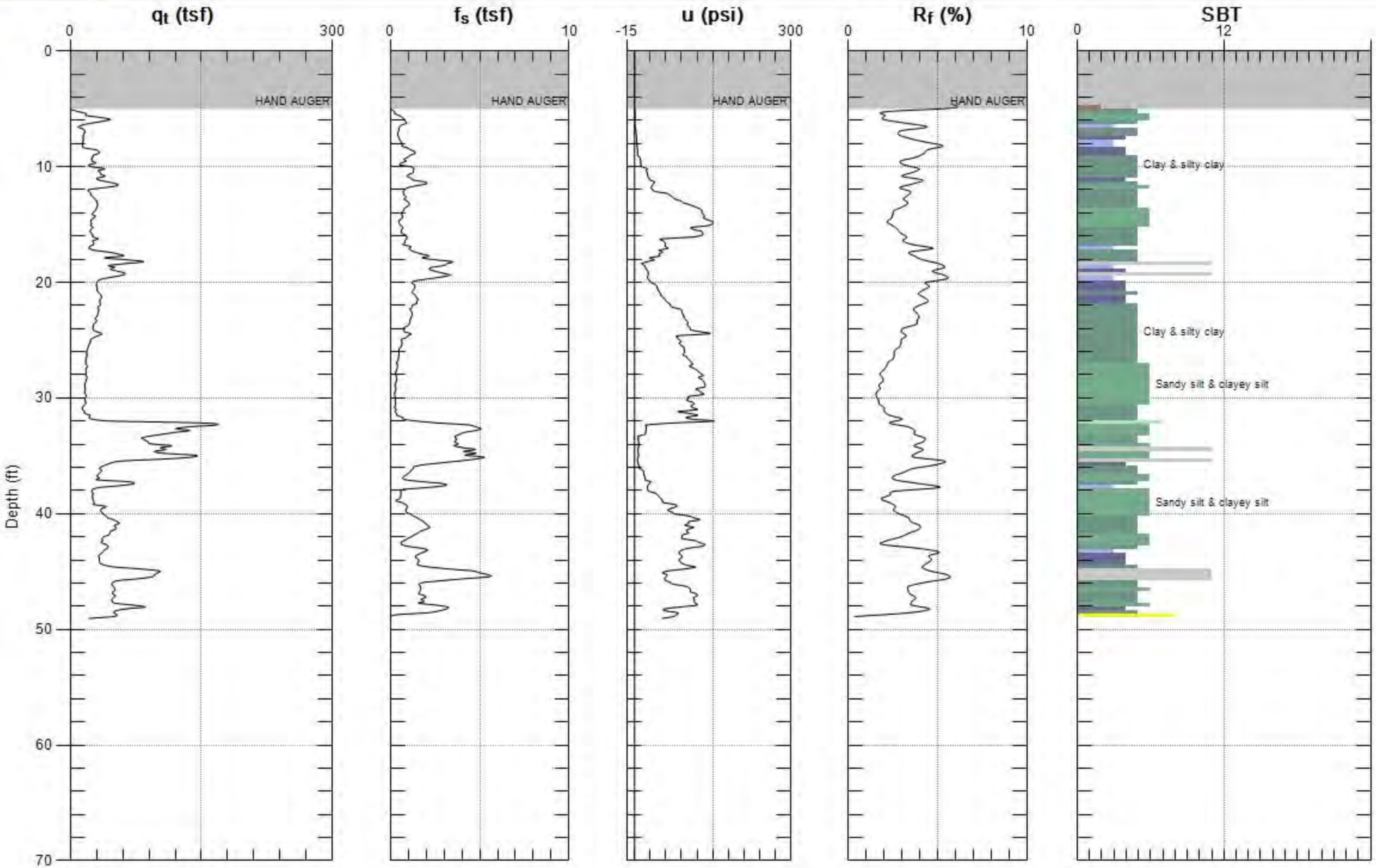
CRA

Site: NADY

Sounding: CPT-MIP-10

Engineer: M.JONAS

Date: 8/18/2009 03:02



Max. Depth: 49.049 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

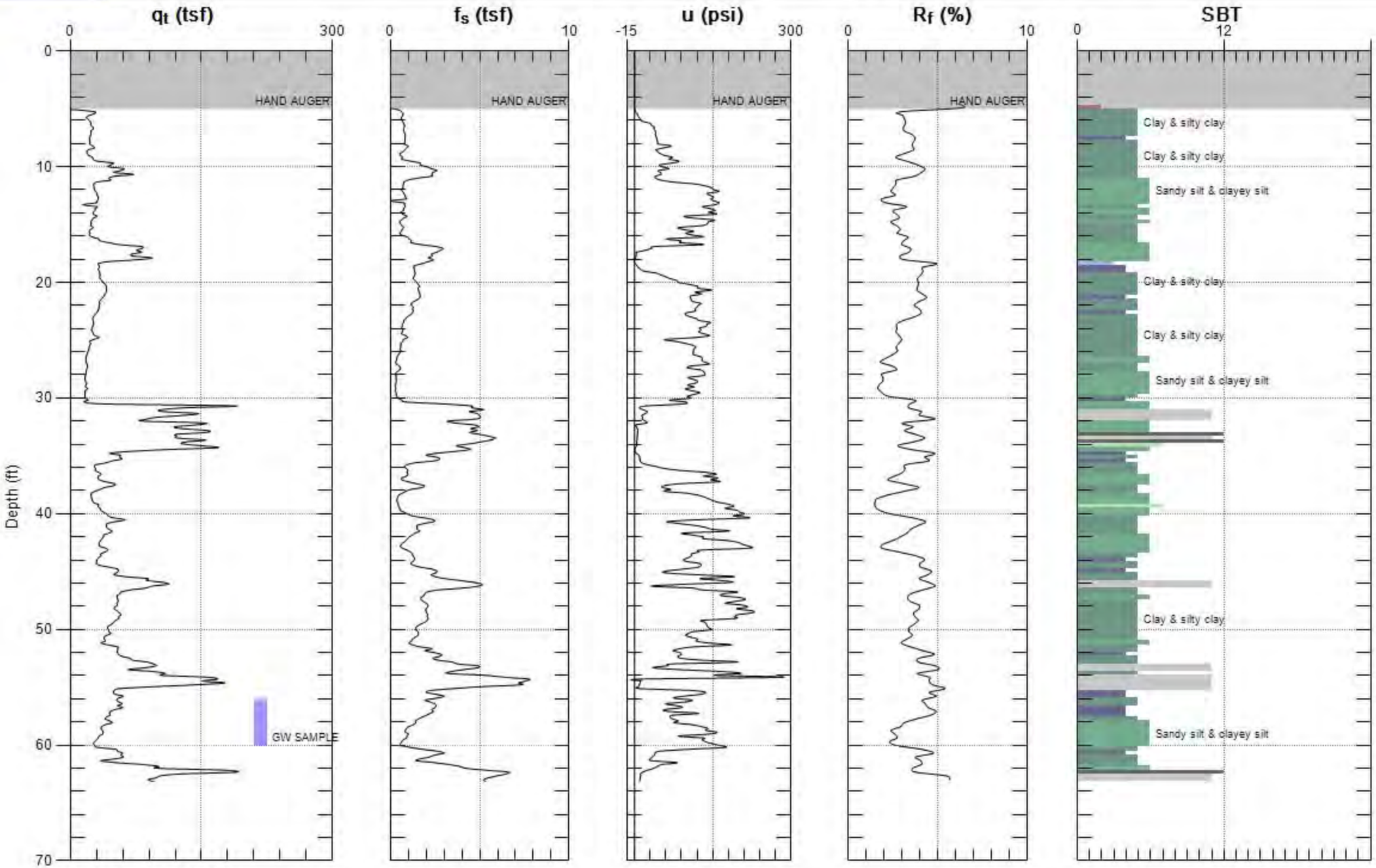
CRA

Site: NADY

Sounding: CPT-MIP-11

Engineer: M.JONAS

Date: 8/18/2009 09:26



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Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

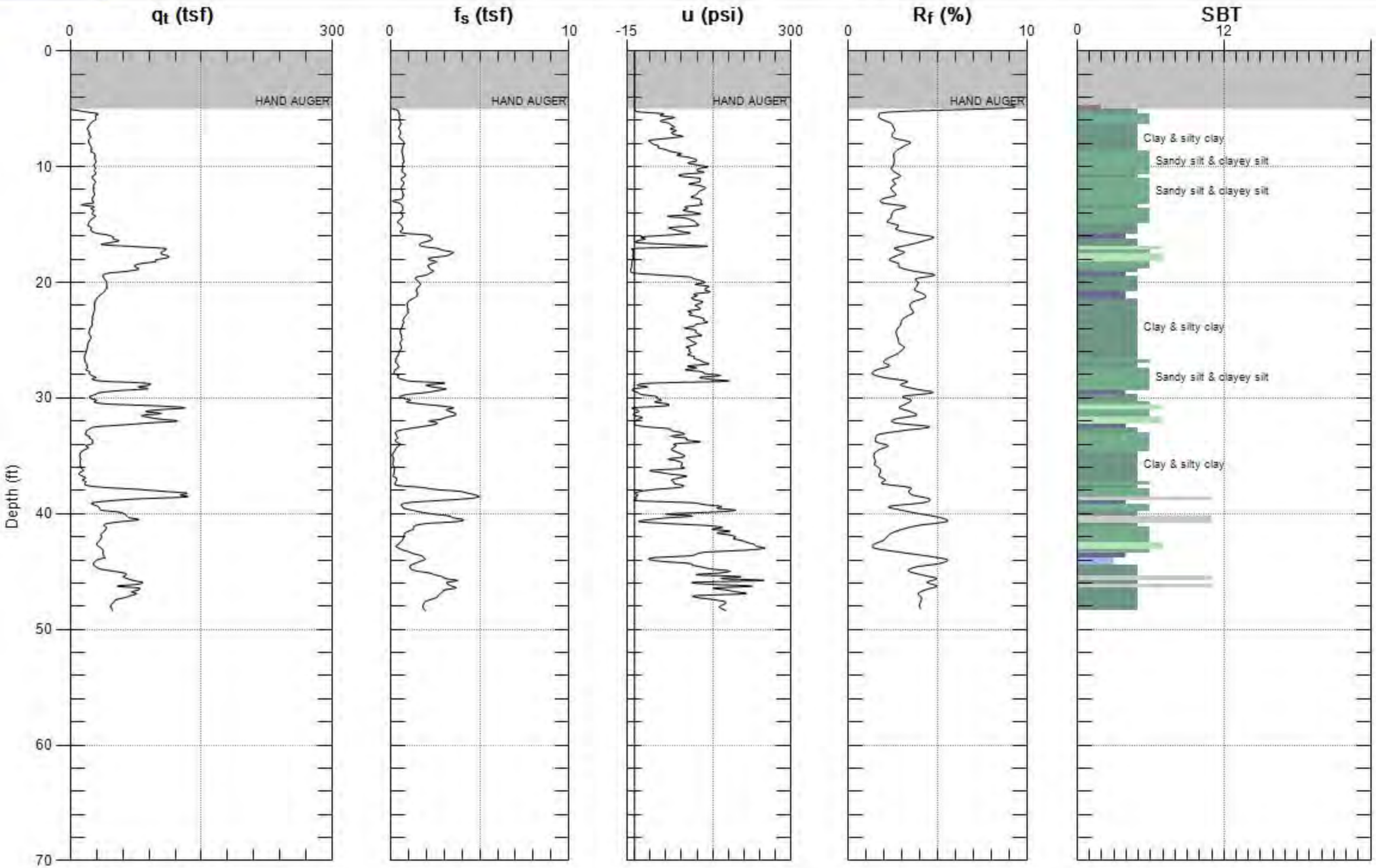
CRA

Site: NADY

Sounding: CPT-MIP-12

Engineer: M.JONAS

Date: 8/18/2009 01:46



Max. Depth: 48.392 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

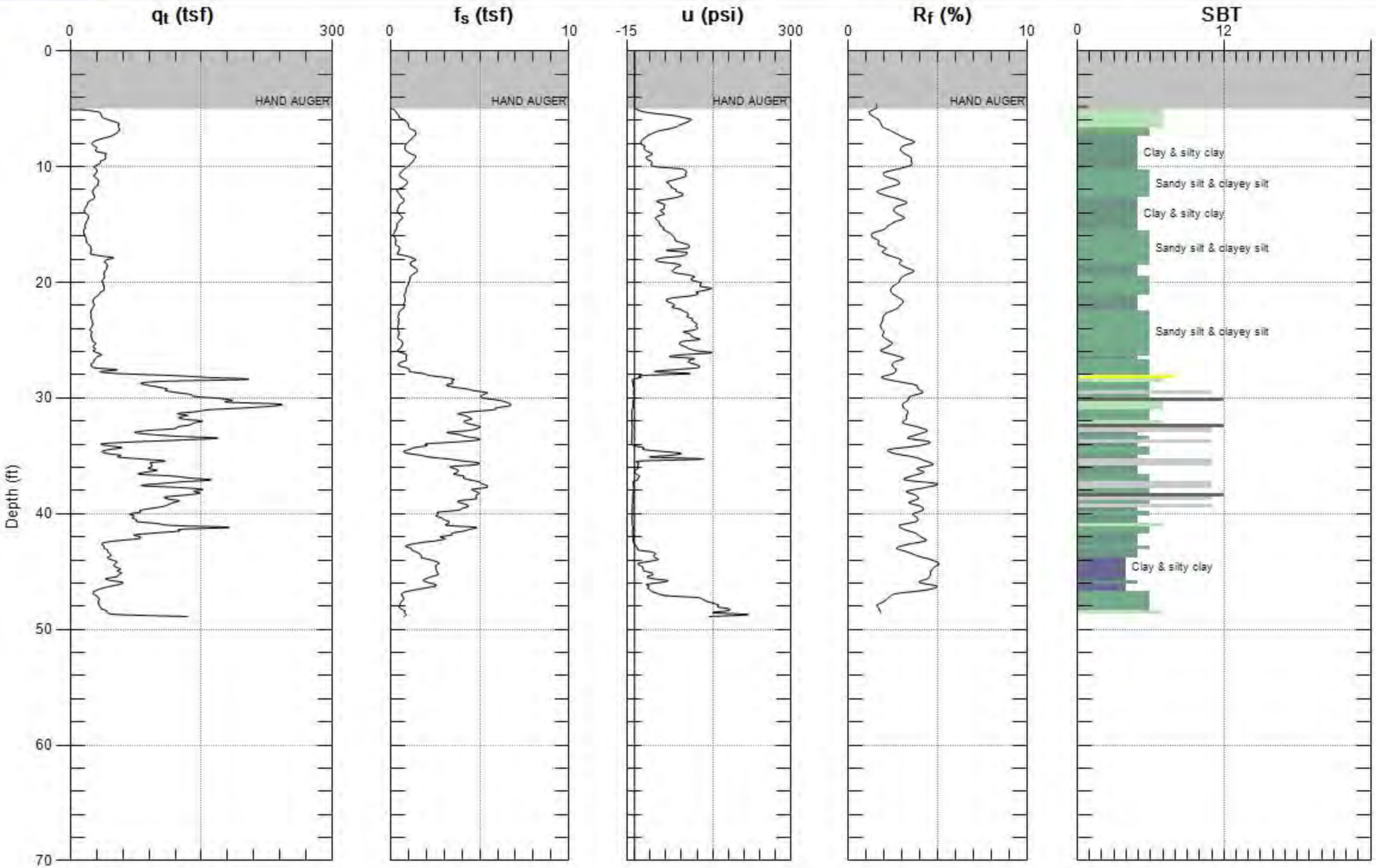
CRA

Site: NADY

Sounding: CPT-MIP-13

Engineer: M.JONAS

Date: 8/20/2009 07:06



Max. Depth: 48.885 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

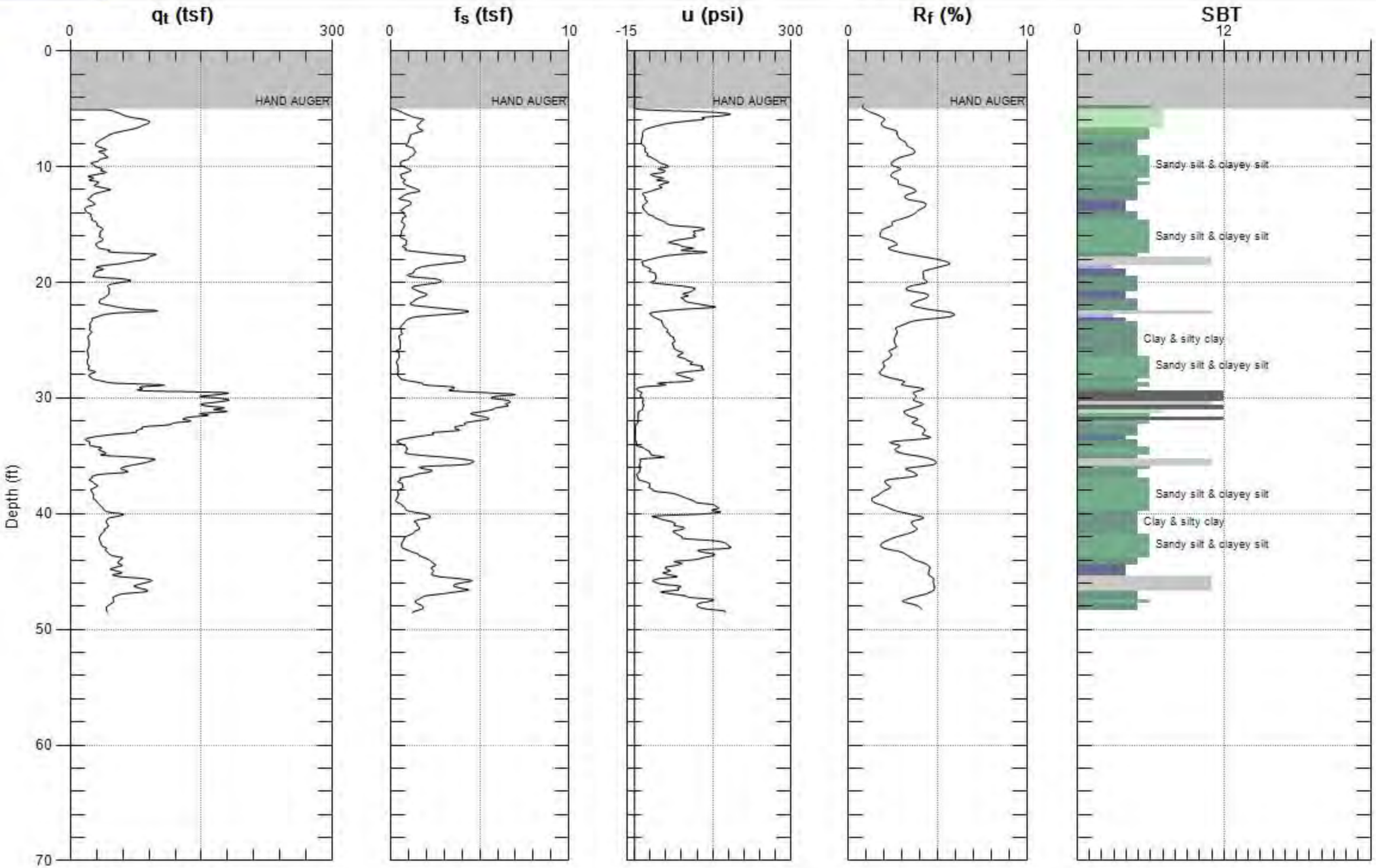
CRA

Site: NADY

Sounding: CPT-MIP-14

Engineer: M.JONAS

Date: 8/20/2009 08:57



Max. Depth: 48.556 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

GREGG

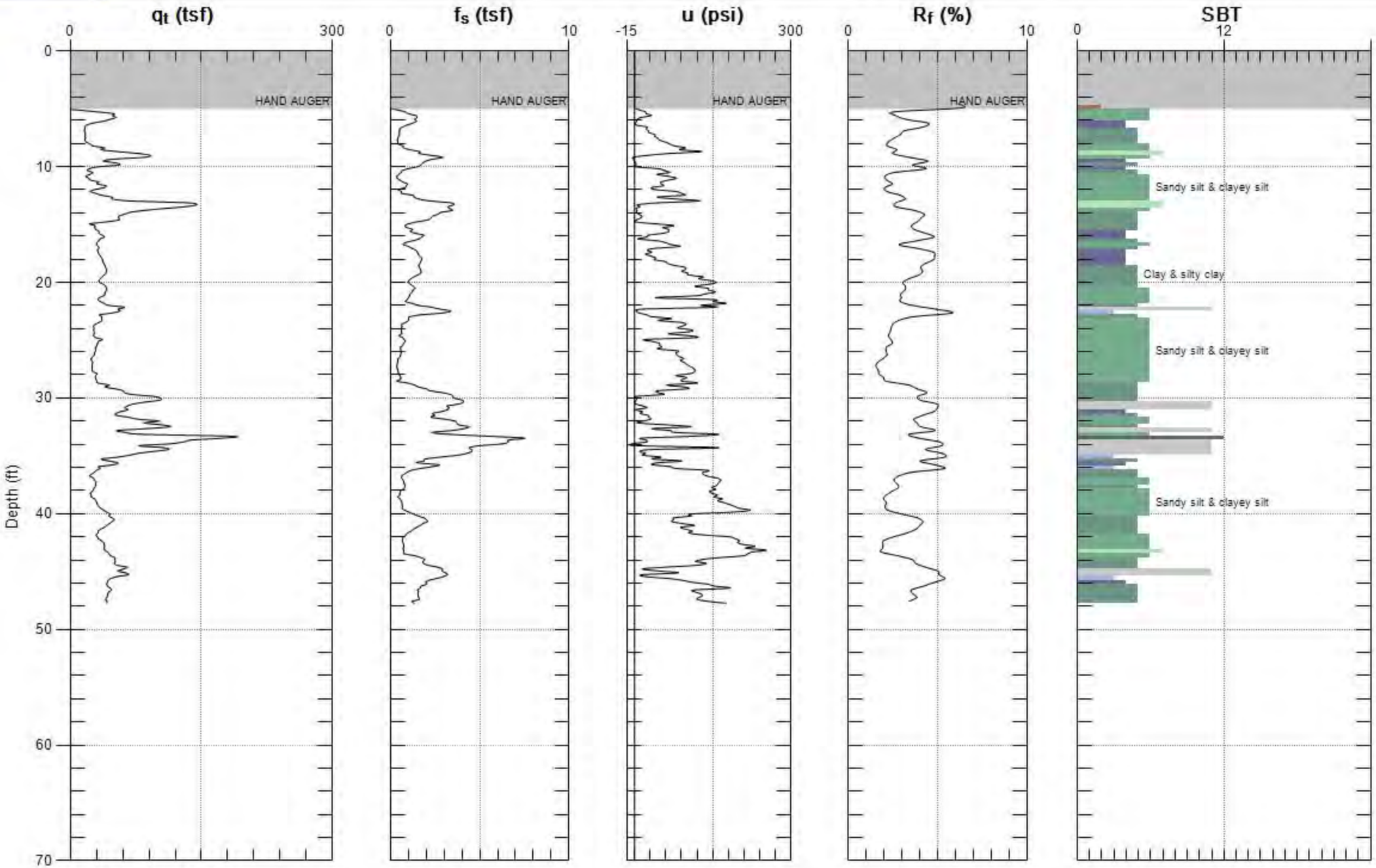
CRA

Site: NADY

Sounding: CPT-MIP-15

Engineer: M.JONAS

Date: 8/20/2009 10:42



Max. Depth: 47.736 (ft)

Avg. Interval: 0.328 (ft)

SBT: Soil Behavior Type (Robertson 1990)

APPENDIX F

MEMBRANE INTERFACE PROBE RESULTS

Report
Membrane Interface Probe Services
Nady
Peabody Lane, Oakland, CA



Prepared By:

Vironex, Inc.
Frank Stolfi - National Director of MIP Services
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Prepared For:

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5900 Hollis St
Suite A
Emeryville, CA 94608

"Expect Performance"

Table of Contents

1. **Project Background**
   a. Site History –

Target Area	Approx. 1 block on Peabody Lane
Target Interval	Surface to 45’ bgs.
Target Interval Lithology	Sand, Silty Sand, Silt
Depth to Groundwater	Unknown
Contaminants of Concern	Gasoline, Diesel, Solvents
Groundwater mg/l	Unknown
Soil mg/kg	Unknown
DNAPL / Free Product	No

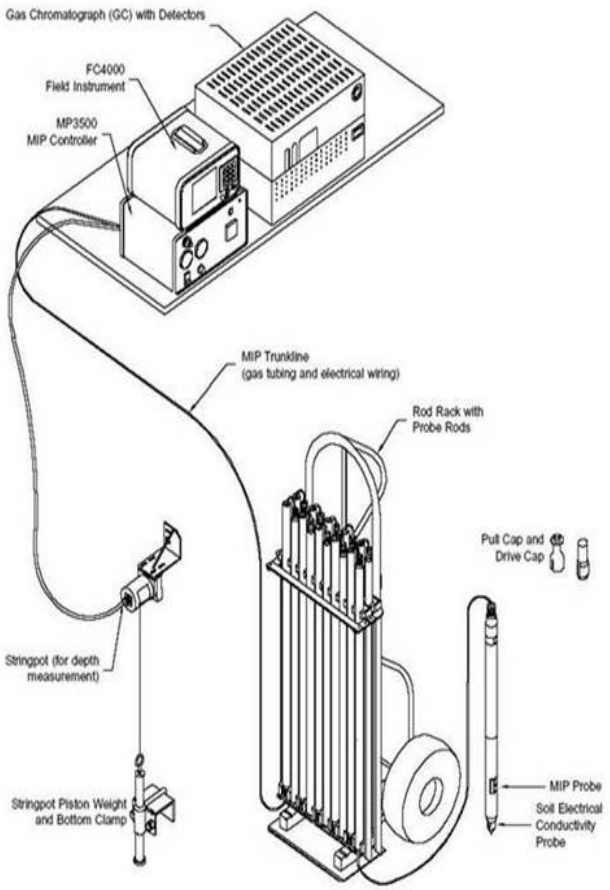
   b. Objectives – Define vertical and lateral extent of VOC plume.
   c. MIP Scope - Collect MIP data from 15 locations, samples as shallow as 0’ bgs to as deep as 60’ bgs.
   d. Notes

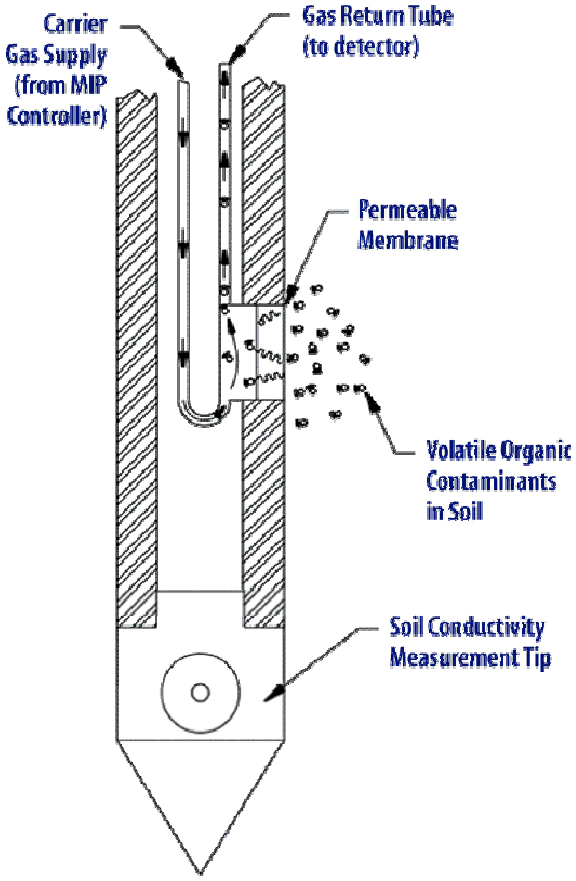
MIP Boring	Date	Notes
CPT-1	08/17/09	Hand auger to 5' bgs.
CPT-2	08/17/09	Hand auger to 5' bgs.
CPT-3	08/17/09	Hand auger to 5' bgs.
CPT-4	08/17/09	Hand auger to 5' bgs.
CPT-5	08/18/09	Hand auger to 5' bgs.
CPT-11	08/18/09	Hand auger to 5' bgs.
CPT-12	08/18/09	Hand auger to 5' bgs.
CPT-10	08/18/09	Hand auger to 5' bgs.
CPT-6	08/19/09	Hand auger to 5' bgs.
CPT-7	08/19/09	Hand auger to 5' bgs.
CPT-8	08/19/09	Hand auger to 5' bgs.
CPT-9	08/19/09	Hand auger to 5' bgs.
CPT-13	08/20/09	Hand auger to 5' bgs.
CPT-14	08/20/09	Hand auger to 5' bgs.
CPT-15	08/20/09	Hand auger to 5' bgs.

2. MIP System Overview:

The MIP is a direct push tool that produces continuous chemical and physical logs of the vadose and saturated zones. It locates VOCs in-situ and shows you where they occur relative to the geologic and hydrologic units. Vertical profiles, transects, 3D pictures and maps can all be made from the electronic data generated by the MIP logs. Its unique capability of providing reliable, real-time information allows you to make better and timely decisions while your team is still in the field.

The MIP is a down hole tool that heats the soils and groundwater adjacent to the probe to 120 degrees C. This increases volatility and the vapor phase diffuses across a membrane into a closed, inert gas loop that carries these vapors to a series of detectors housed at the surface. Continuous chemical logs or profiles are generated from each hole. Soil conductivity is also measured and these logs can be compared to the chemical logs to better understand where the VOCs occur. The MIP technology is only appropriate for volatile organic compounds (VOCs). The gas stream can be analyzed with multiple detectors, for example an electron capture detector is used to detect chlorinated solvents, a photo-ionization detector is used to detect petroleum hydrocarbons, and a flame ionization detector is used to detect methane.





2.a Equipment Used:

- Gregg Drilling CPT Unit
- MIP Controller (Nitrogen Flow and Heater)
- Geoprobe FC 5000 Computer
- HP 5890 Gas Chromatograph
- ECD (Electron Capture Detector)
- PID (Photo Ionization Detector) 10.2 eV Lamp
- FID (Photo Ionization Detector)
- 200' Geoprobe Trunkline
- 1.75" O.D. 6520 MIP Probe
- 1.5" O.D. Drive Rods

2.b Detector Overview

- ECD – Electron Capture Detector uses a radioactive Beta emitter (electrons) to ionize some of the carrier gas and produce a current between a biased pair of electrodes. When organic molecules contain electronegative functional groups, such as halogens, phosphorous, and nitro groups pass by the detector, they capture some of the electrons and reduce the current measured between the electrodes.

- PID – Photo Ionization Detector sample stream flows through the detector's reaction chamber where it is continuously irradiated with high energy ultraviolet light. When compounds are present that have a lower ionization potential than that of the irradiation energy (10.2 electron volts with standard lamp) they are ionized. The ions formed are collected in an electrical field, producing an ion current that is proportional to compound concentration. The ion current is amplified and output by the gas chromatograph's electrometer.

- FID – Flame Ionization Detector consists of a hydrogen / air flame and a collector plate. The effluent from the GC (trunkline) passes through the flame, which breaks down organic molecules and produces ions. The ions are collected on a biased electrode and produce an electric signal.

2.c MIP Data Collected

- Depth - Data is collected from twenty data points per foot. 0.05', 0.10', 0.15', etc…

- Electrical Conductivity - Electrical Conductivity data is measured/collected in milli-siemens per Meter (ms/M). The conductivity of soils is different for each type of media. Finer grained sediments, such as silts or clays, will have a higher EC signal. While coarser grained sediments, sands and gravel, will have a lower EC signal. The coarser grained sediments will allow the migration of contaminants and the finer grained sediments will trap the contaminant. (NOT COLLECTED)

- Speed / Advancement Rate - Speed data is measured/collected in feet per minute (ft/min). Speed is an indication of the physical advancement rate of the MIP probe. Speed of the MIP probe can vary due to operator advancement and dense soil types. Speed log can provide soil type information which can be

correlated with electrical conductivity. Lower advancement speed, correlated with lower conductivity or larger grained soils would more than likely be associated with dense or compacted sands.

- Temperature - Temperature data is measured/collected in Degrees Celsius. Temperature is an indication of the physical temperature of the MIP block. Minimum and Maximum temperature is collected at each vertical interval. Vironex's temperature protocol indicates that the MIP probe temperature shall maintain a minimum temperature of 75 Degrees Celsius.

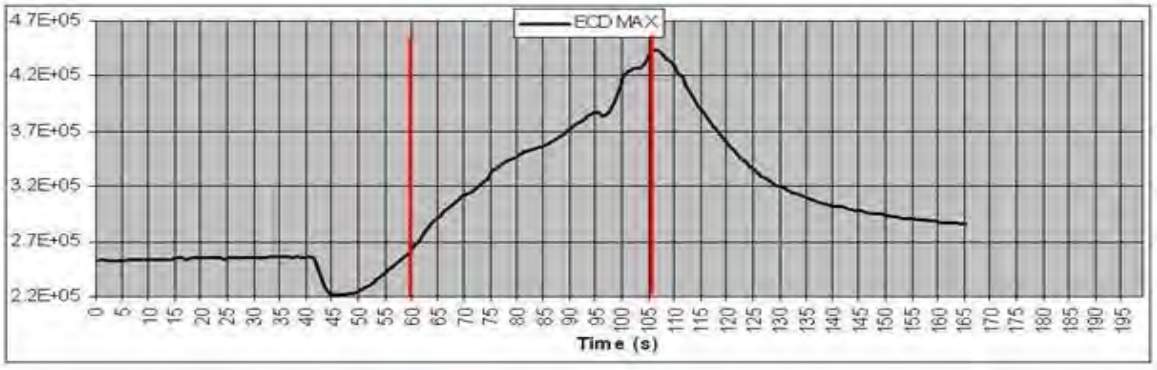
- Pressure - Pressure data is measured/collected in PSI. Pressure is an indication of the internal pressure of the nitrogen lines located within the trunkline and the pressure behind the membrane. Minimum and Maximum pressure is collected at each vertical interval. Geoprobe's pressure protocol indicates that the MIP probe pressure shall not exceed 1.5 PSI difference from baseline.

- Detector (ECD, PID, FID) - Detector responses are measured/collected in micro Volts (uV). Detector responses are an indication of relative contaminant responses. Minimum and Maximum detector responses are collected at each vertical interval.

3. MIP QA/QC

Vironex adheres to Geoprobe's Standard Operating Procedure, technical Bulletin No. MK3010, prepared: May, 2003. The response testing is a necessary part of the MIP logging process because it ensures that the system is working correctly and also enables the operator to measure the response time. Response time is the time it takes for the contaminant to go from the probe, through the trunk line, and to the detectors. This time is entered into the FC5000 computer for depth calculations. A response test is completed at the beginning of the day, between each boring, and at the end of each day. The response time will vary due to weather temperatures and length of the trunkline.

Per Geoprobe's SOP, a pass response is indicated as double the noise above the baseline.



APPENDIX A

Physical Properties Chart

Compound	Formula	Density	Flashpoint* (°C)	Molecular Weight	Melting Point (°C)	Boiling Point (°C)	Water Solubility**	ECD	PID	FID
1,1,1,2-Tetrachloroethane	$C_2H_2Cl_4$	1.5532	6	167.8498	-70.2	130.5	<0.1 g/100 mL at 20.5 C	●		
1,1,1-Trichloroethane	$C_2H_3Cl_3$	1.3376	N/A	133.4047	-32.6	74.1	Slightly soluble. 0.1495 g/100 mL	●		
1,1,2,2-Tetrachloroethane	$C_2H_2Cl_4$	1.595	N/A	167.8498	-43	146.3	Soluble. 0.2962 g/100 mL	●		
1,1,2-Trichloroethane	$C_2H_3Cl_3$	1.4411	N/A	133.4047	-36.5	113.8	Insoluble. 0.442 g/100 mL	●		
1,1-Dichloroethane	$C_2H_4Cl_2$	1.176	-5	98.9596	-97.4	57.3	Slightly soluble. 0.506 g/100 mL	●		
1,1-Dichloroethene	$C_2H_2Cl_2$	1.213	-28	96.9438	-122.1	31.7	Insoluble. 0.225 g/100 mL	●	●	
2,3-Dichloropropene	$C_3H_4Cl_2$	1.204	10	110.9706	10	94	<0.1 g/100 mL at 22 C	●	●	
1,2,3-Trichlorobenzene	$C_6H_3Cl_3$	1.69	126	181.4487	52.6	219	Insoluble	●	●	
1,2,3-Trichloropropane	$C_3H_5Cl_3$	1.389	82	147.4315	-14.7	156	insoluble. 0.18 g/100 mL	●		
1,2,4-Trichlorobenzene	$C_6H_3Cl_3$	1.4634	110	181.4487	16.95	214.4	Insoluble. 0.0049 g/100 mL	●	●	
1,2-Dichlorobenzene	$C_6H_4Cl_2$	1.306	67	147.0036	-15	180.5	slightly soluble. 0.008396 g/100 mL	●	●	
1,2-Dichloroethane	$C_2H_4Cl_2$	1.253	13	98.9596	-35.3	83.5	Slightly soluble. 0.8608 g/100 mL	●		
1,2-Dichloropropane	$C_3H_6Cl_2$	1.1558	15	112.9864	-100.4	96.8	Slightly soluble. 0.27 g/100 mL	●		
1,3-Dichlorobenzene	$C_6H_4Cl_2$	1.288	67	147.0036	-24.76	173	insoluble. 0.0125 g/100 mL	●	●	
1,4-Dichlorobenzene	$C_6H_4Cl_2$	1.2417	67	147.0036	53.1	173.4	Insoluble. 0.00813 g/100 mL	●	●	
1,2-Dichloropropane	$C_3H_6Cl_2$	1.1558	15	112.9864	-100.4	96.8	Slightly soluble. 0.27 g/100 mL	●		
2-Chloropropane	C_3H_7Cl	0.862	-32	78.5413	-117.18	35.74	0.31 g/100 mL at 20 C	●		
2-Chlorotoluene	C_7H_7Cl	1.082	47	126.5853	-35.1	158.97	Slightly soluble	●	●	
3-Chloropropene	C_3H_5Cl	0.938	-29	76.5255	-134.5	44 - 46	Slightly soluble. 0.337 g/100 mL	●	●	
4-Chlorotoluene	C_7H_7Cl	1.07	49	126.5853	7.5	161.9	<0.1 g/100 mL at 20 C	●	●	
Carbon tetrachloride	CCl_4	1.594	N/A	153.823	-22.9	76.7	Slightly sol. 0.08048 g/100 mL	●		
Chlorobenzene	C_6H_5Cl	1.1066	29	112.5585	-45.6	130	Slightly soluble. 0.0497 g/100 mL	●	●	
Chloroethane	C_2H_5Cl	0.92	-50	64.5145	-136.4	12.3	Soluble. 0.574 g/100 mL at 20 C	●		
Chloroform	$CHCl_3$	1.49845	N/A	119.3779	-63.7	61.7	Slightly sol. 0.795 g/100 mL	●		
Chloromethane	CH_3Cl	0.991	N/A	50.4877	-97.1	-24.2	insoluble. 0.5325 g/100 mL	●		
cis-1,2-Dichloroethene	$C_2H_2Cl_2$	1.284	6	96.9438	-80.5	60	0.08 g/100 mL	●	●	
cis-1,3-Dichloropropene	$C_3H_4Cl_2$	1.22	N/A	110.9706	-50	104.3	<0.1 g/100 mL at 20.5 C	●	●	
cis-1,4-Dichloro-2-butene	$C_4H_6Cl_2$	1.188	56	124.9974	-48	152	0.058 g/100 mL	●	●	
Methylene Chloride	CH_2Cl_2	1.3255	N/A	84.9328	-96.7	39.8	Slightly sol. 1.32 g/100 mL	●		
Tetrachloroethene	C_2Cl_4	1.623	N/A	165.834	-22.3	121.1	Almost insoluble 0.015 g/100 mL	●	●	
Trans-1,2-Dichloroethene	$C_2H_2Cl_2$	1.257	6	96.9438	-50	47.5	Slightly. 0.63 g/100 mL	●	●	

Compound	Formula	Density	Flashpoint* (°C)	Molecular Weight	Melting Point (°C)	Boiling Point (°C)	Water Solubility**	ECD	PID	FID
trans-1,3-Dichloropropene	$C_3H_4Cl_2$	1.217	27	110.9706	N/A	112	<0.1 g/100 mL at 20.5 C	●	●	
trans-1,4-Dichloro-2-butene	$C_4H_6Cl_2$	1.183	N/A	124.9974	2	155.5	0.085 g/100 mL at 25 C	●	●	
Trichloroethene	C_2HCl_3	1.462	N/A	131.3889	-86	86.7	Slightly soluble. 0.11 g/100 mL	●	●	
Vinyl Chloride	C_2H_3Cl	0.9106	42	62.4987	-153.7	-13.9	Slightly soluble 0.11 g/100 mL	●	●	
Benzene	C_6H_6	0.8786	-11	78.1134	5.5	80.1	Slightly sol. 0.18 g/100 mL		●	●
Hexane	C_6H_{14}	0.6548	-22	86.1766	-95	69	Slightly sol. .000947 g/100 mL		●	●
n-Butylbenzene	$C_{10}H_{14}$	0.86	59	134.2206	-88	183	insoluble		●	●
1,2,4-Trimethylbenzene	C_9H_{12}	0.876	48	120.1938	-43.8	169	Slightly soluble		●	●
1,3,5-Trimethylbenzene	C_9H_{12}	0.865	44	120.1938	-44.7	165	insoluble		●	●
Ethyl Benzene	C_8H_{10}	0.867	15	106.167	-94.9	136.2	0.0206 g/100 mL		●	●
m,p-Xylene	C_8H_{10}	0.862	25	106.167	-50	140	Insoluble. 0.0175 g/100 mL		●	●
Naphthalene	$C_{10}H_8$	0.997	78	128.1732	80.6	218	Slightly soluble. 0.0031 g/100 mL		●	●
o-Xylene	C_8H_{10}	0.897	32	106.167	-25.2	144	0.00 g/100 mL. Insoluble		●	●
n-Propylbenzene	C_9H_{12}	0.862	47	120.1938	-101.6	159	insoluble		●	●
Toluene	C_7H_8	0.867	4	92.1402	-93	110.6	Slightly sol. 0.0526 g/100 mL		●	●
1,2-Dibromo-3-chloropropane	$C_3H_5Br_2Cl$	2.05	N/A	236.3335	6	195	0.123 g/100 mL	●		
1,2-Dibromoethane	$C_2H_4Br_2$	2.17	1	187.8616	9.97	131.7	Slightly sol. 0.4152 g/100 mL	●		
1,3-Dichloropropane	$C_3H_6Cl_2$	1.188	20	112.9864	-99	120.4	insoluble	●		
Acrylonitrile	C_3H_3N	0.8075	-5	53.0634	-83.55	77.3	Soluble. 7.45 g/100 mL		●	
Bromobenzene	C_6H_5Br	1.495	51	157.0095	-30.8	155	insoluble. <0.1 g/100 mL at 20.5 C	●	●	
Bromochloromethane	CH_2BrCl	1.991	N/A	129.3838	-88	67.8	Slightly soluble. 0.1-0.5 g/100 mL at 20 C	●		
Bromodichloromethane	$CHBrCl_2$	1.971	N/A	163.8289	-57.1	90.1	Slightly soluble. 0.6735 g/100 mL	●		
Bromoform	$CHBr_3$	2.894	N/A	252.7309	8.3	149.5	Slightly soluble. 0.301 g/100 mL	●		
Bromomethane	CH_3Br	1.732	N/A	94.9387	-93.7	3.56	Very slightly soluble. 1.522 g/100 mL	●		
Carbon disulfide	CS_2	1.2632	-30	76.131	-110	46.2	Slightly sol. 0.1185 g/100 mL		●	
Cumene	C_9H_{12}	0.862	31	120.1938	-96	151	insoluble. 0.00499 g/100 mL		●	
Dibromochloromethane	$CHBr_2Cl$	2.451	N/A	208.2799	-22	120	0.4 g/100 mL	●		
Dibromomethane	CH_2Br_2	2.497	N/A	173.8348	-53	97	Soluble. 1.193 g/100 mL	●		
Freon 11	CCl_3F	1.494	N/A	137.3684	-111	23.8	insoluble. 0.124 g/100 mL	●		
Freon 113	$C_2Cl_3F_3$	1.575	N/A	187.3762	-36.4	47.6	0.02 g/100 mL. Slightly soluble. Insoluble	●		

Compound	Formula	Density	Flashpoint* (°C)	Molecular Weight	Melting Point (°C)	Boiling Point (°C)	Water Solubility**	ECD	PID	FID
Hexachlorobutadiene	C_4Cl_6	1.68	N/A	260.762	-21	210	Insoluble. 0.00032 g/100 mL	●	●	
p-Cymene	$C_{10}H_{14}$	0.86	47	134.2206	-67	176 - 178	insoluble		●	
sec-Butylbenzene	$C_{10}H_{14}$	0.862	45	134.2206	-75	173	0.00176 g/100mL		●	
Styrene	C_8H_8	0.9045	32	104.1512	-30.6	145.2	0.032 g/100 mL		●	●
tert-Butylbenzene	$C_{10}H_{14}$	0.867	44	134.2206	-58	169	0.00295 g/100 mL		●	

* Compound with no flashpoint are not ignitable.

** If temperature is not otherwise noted, assume 25° C.

● indicates a possible response on specific detector

Associated Parent Compound
Chlorinated
Gasoline
Diesel
Gasoline and Diesel
Not typical of primary compounds

APPENDIX B

MIP BORINGS

5292 Pacheco Boulevard
Pacheco, CA 94553
P:(925) 521-1490
F:(925) 521-1494
www.vironex.com

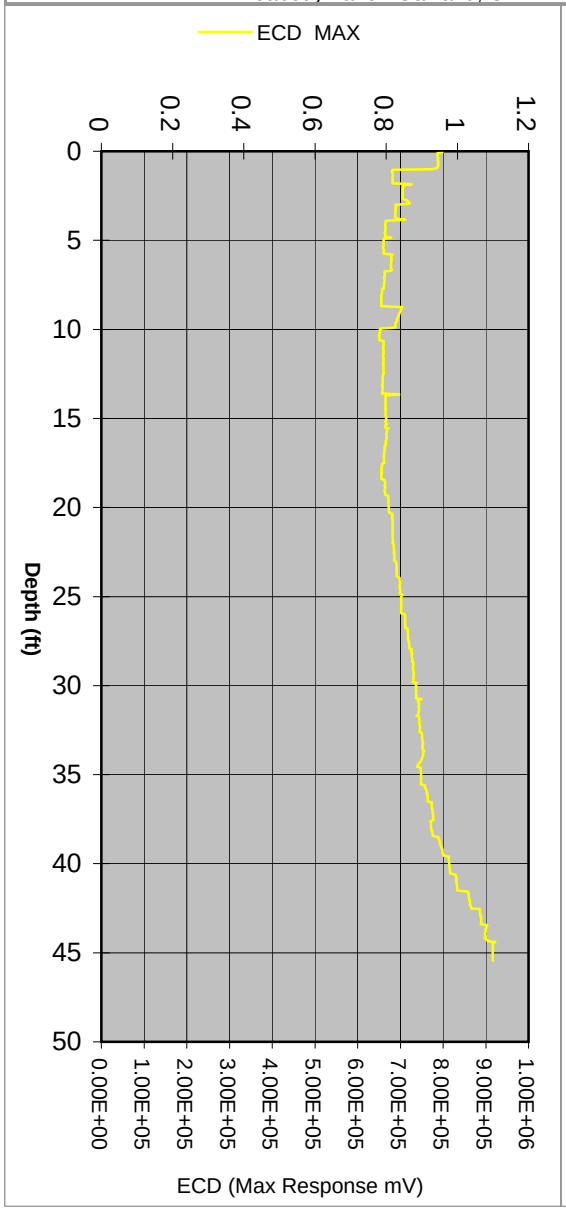
Boring Name: CPT-1

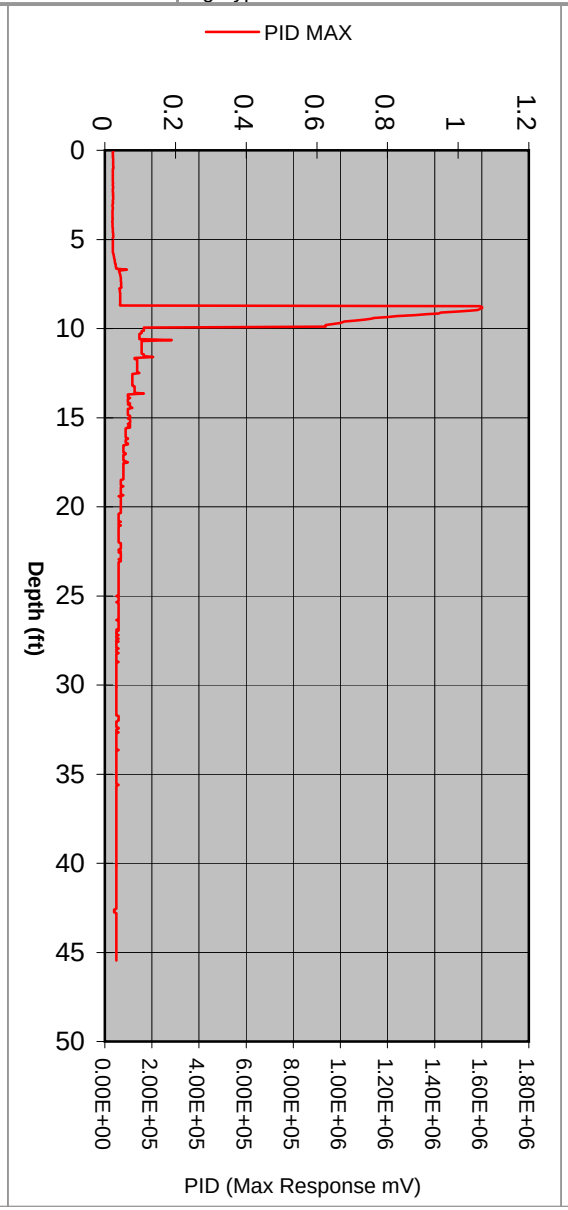
Total Depth (ft): 45.45

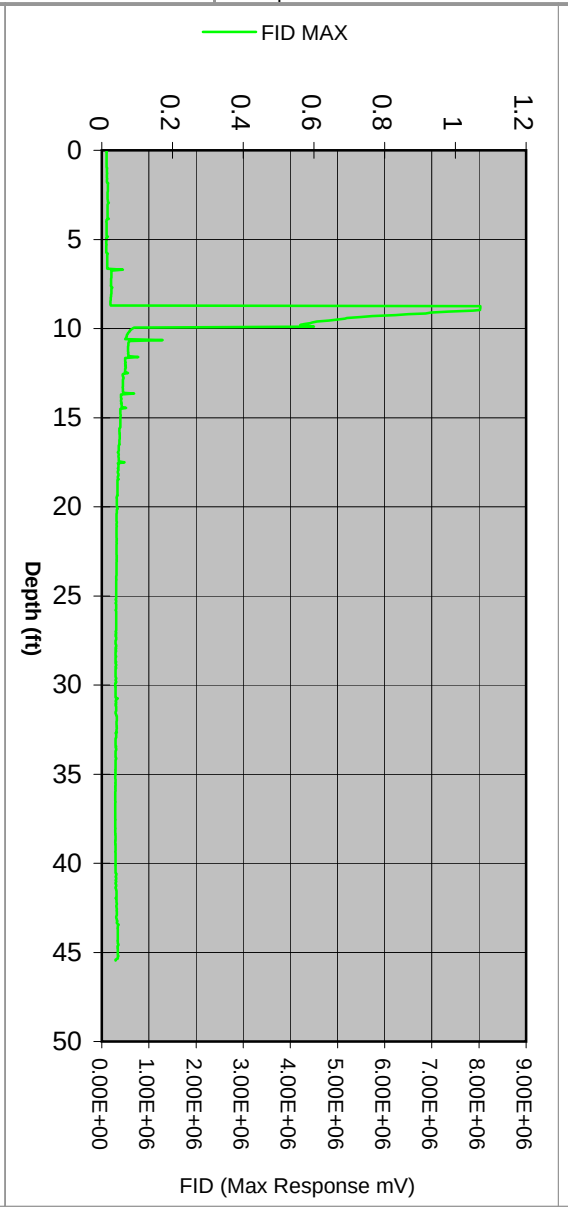
Notes: Hand auger to 5' bgs.

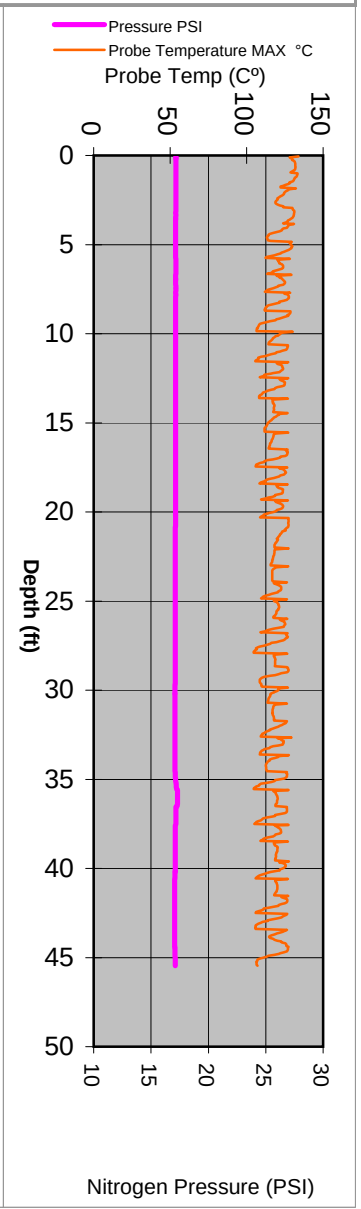
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Mon Aug 17 2009 10:14
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Mon Aug 17 2009 11:02
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









5292 Pacheco Boulevard
Pacheco, CA 94553
P:(925) 521-1490
F:(925) 521-1494
www.vironex.com

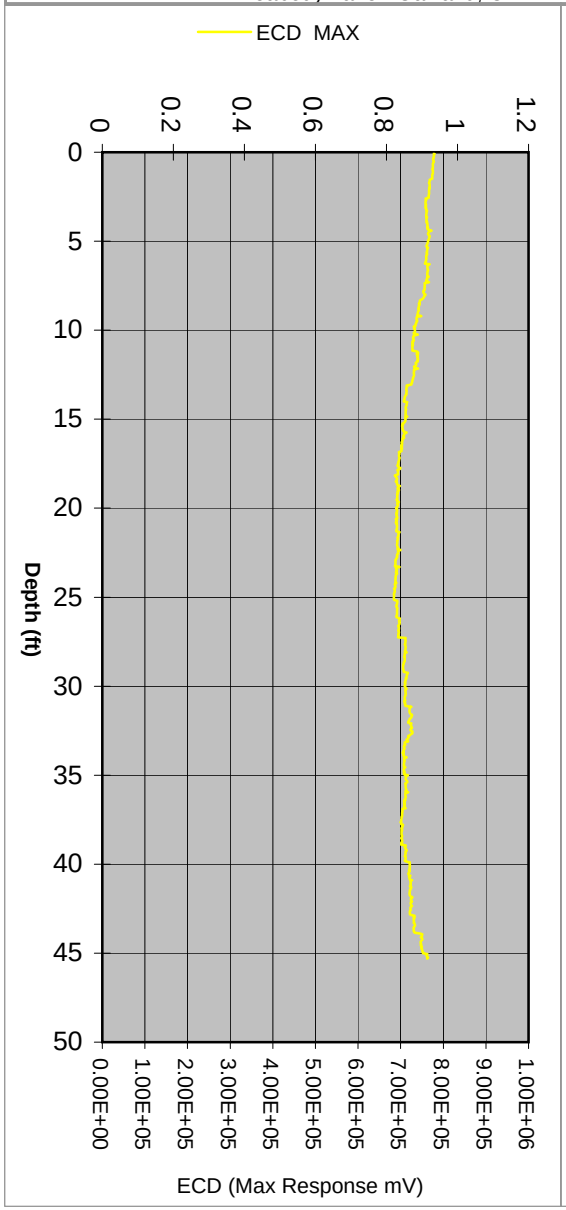
Boring Name: CPT-2

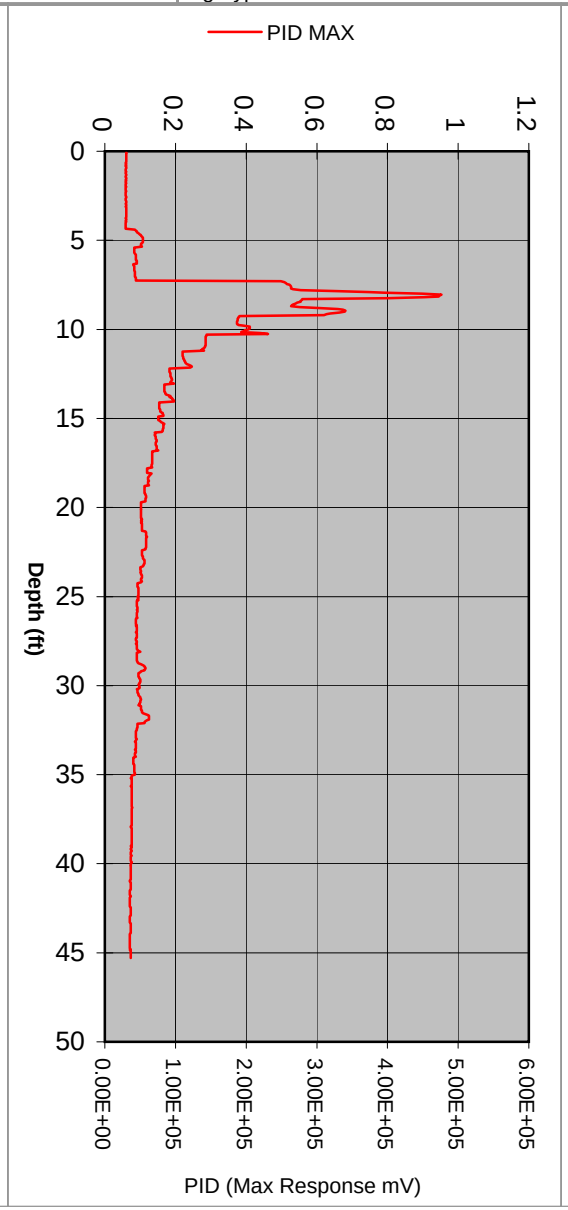
Total Depth (ft): 45.3

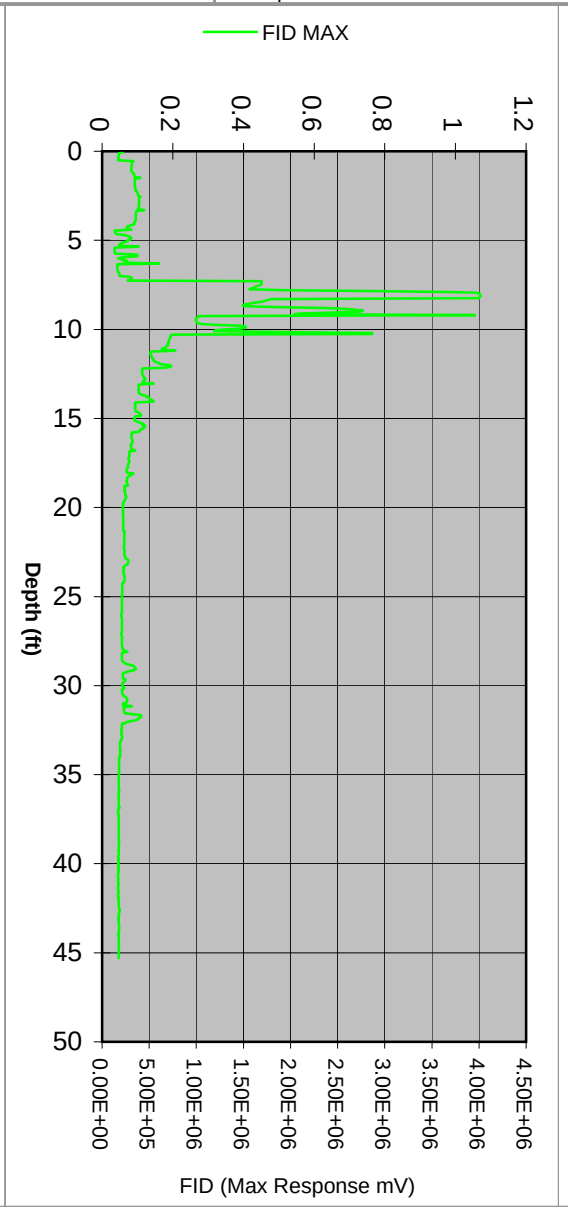
Notes: Hand auger to 5' bgs.

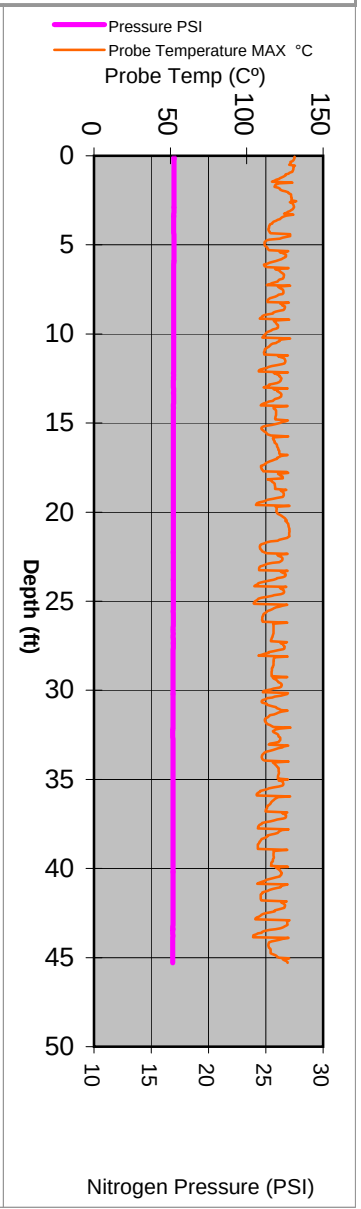
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Mon Aug 17 2009 11:51
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Mon Aug 17 2009 12:42
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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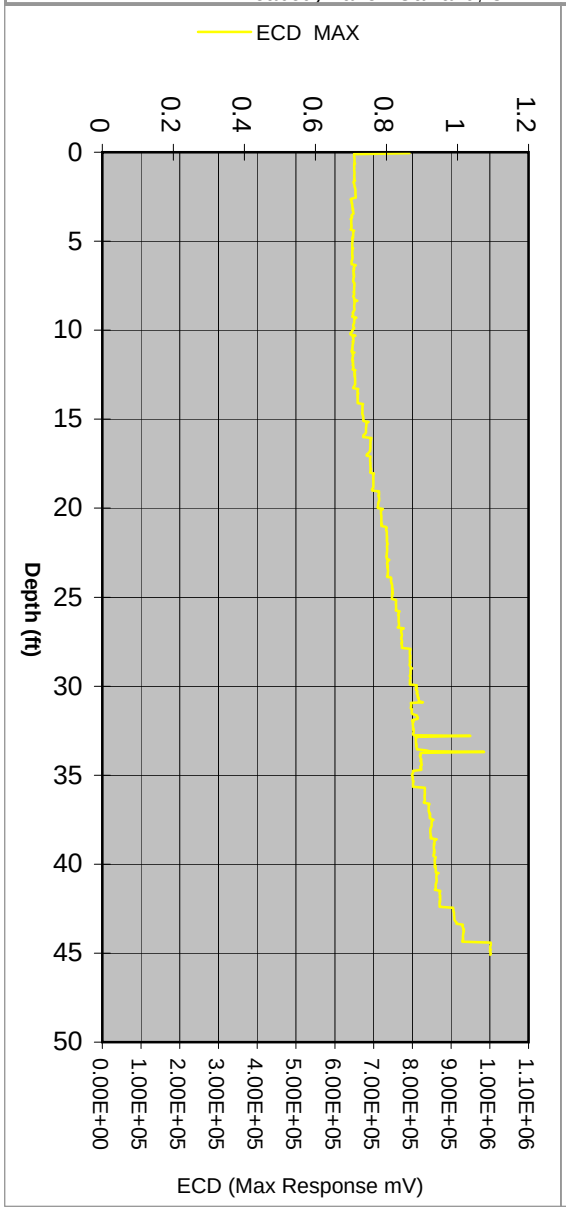
Boring Name: CPT-3

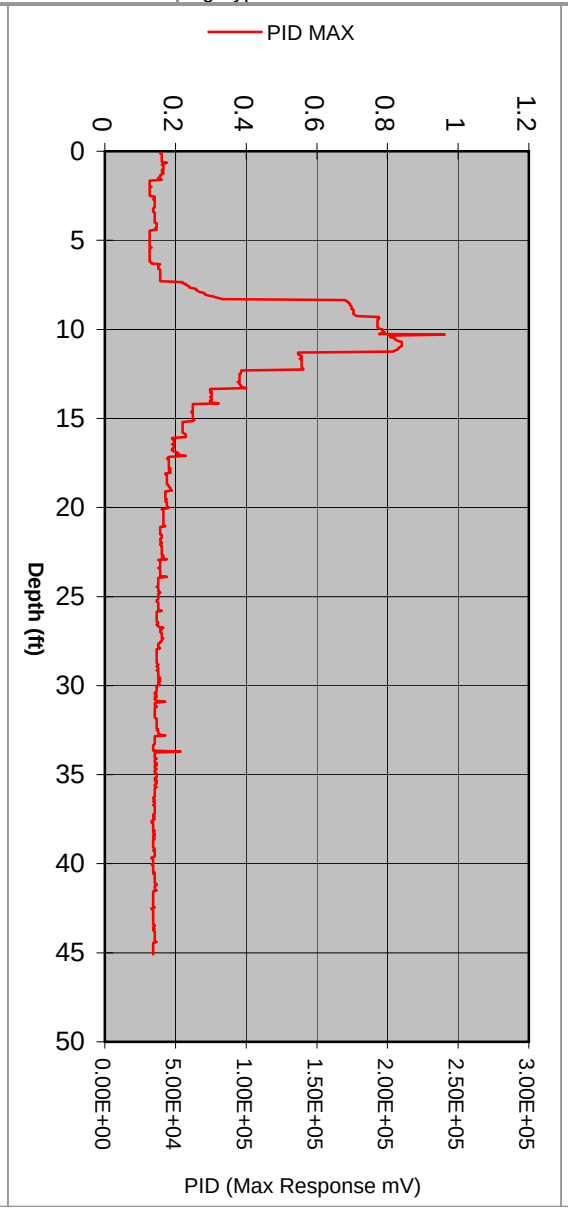
Total Depth (ft): 45.1

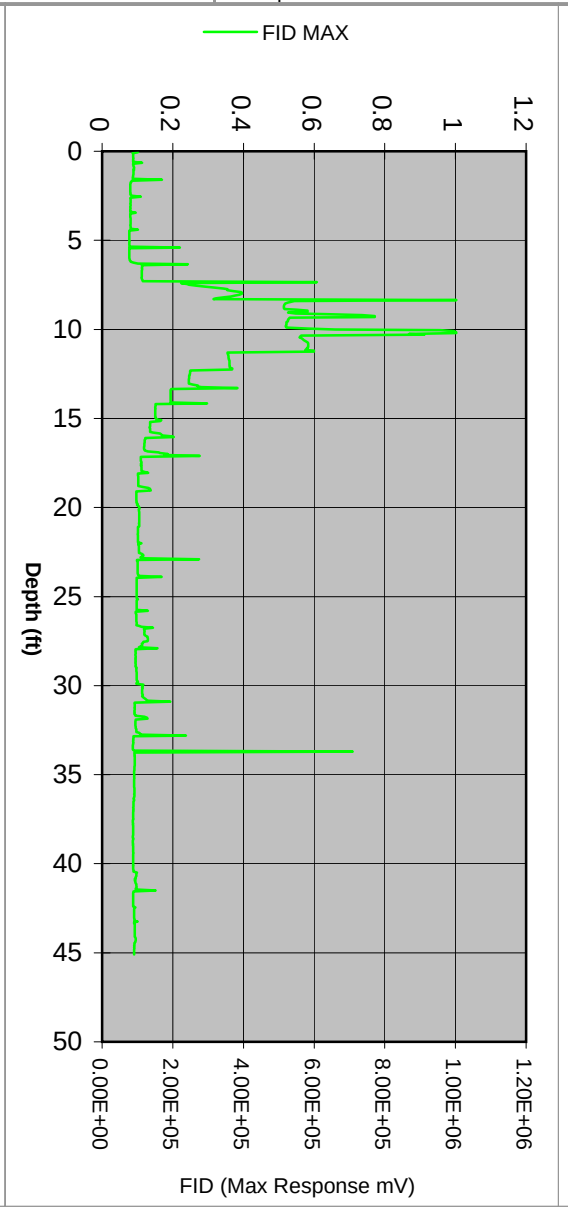
Notes: Hand auger to 5' bgs.

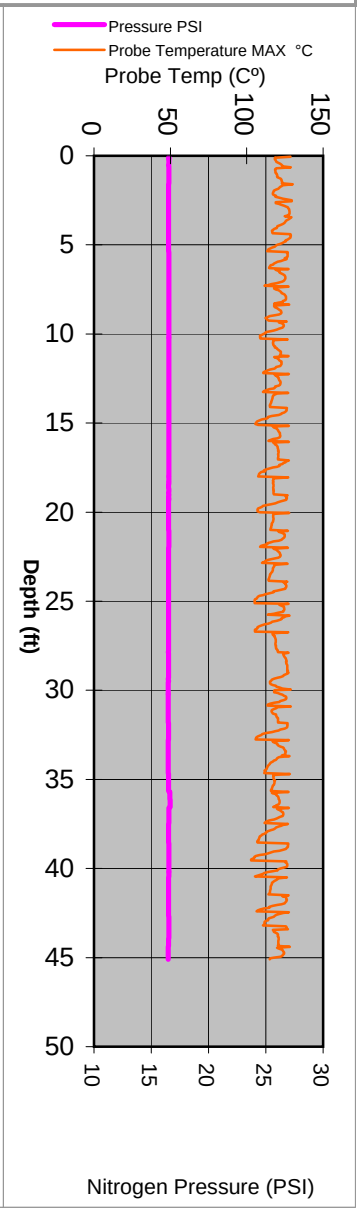
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Mon Aug 17 2009 13:58
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Mon Aug 17 2009 14:49
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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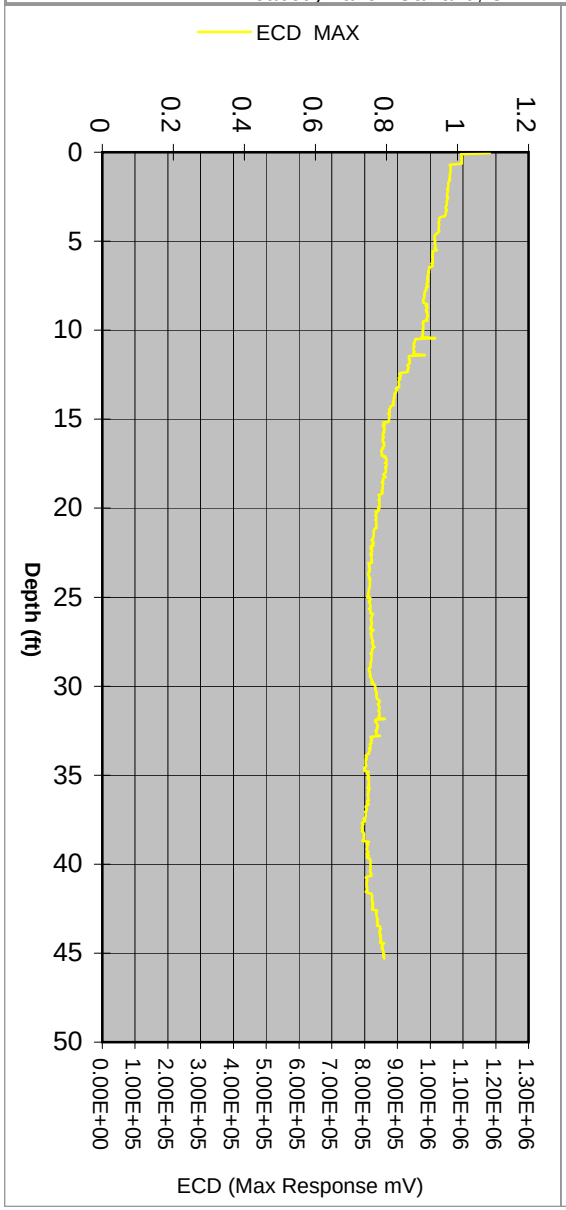
Boring Name: CPT-4

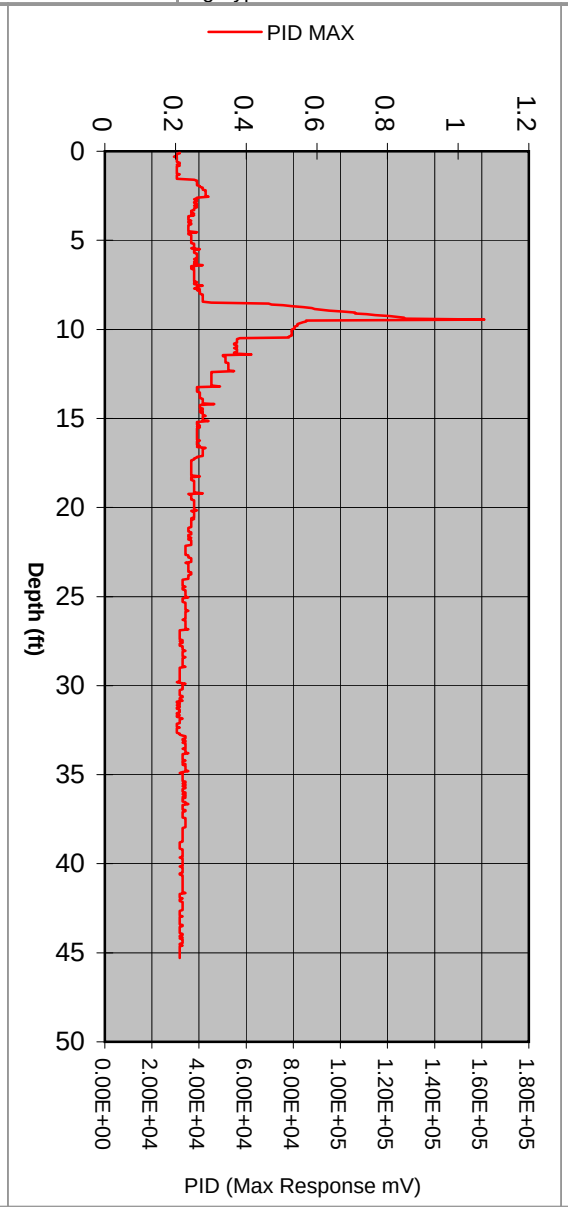
Total Depth (ft): 45.3

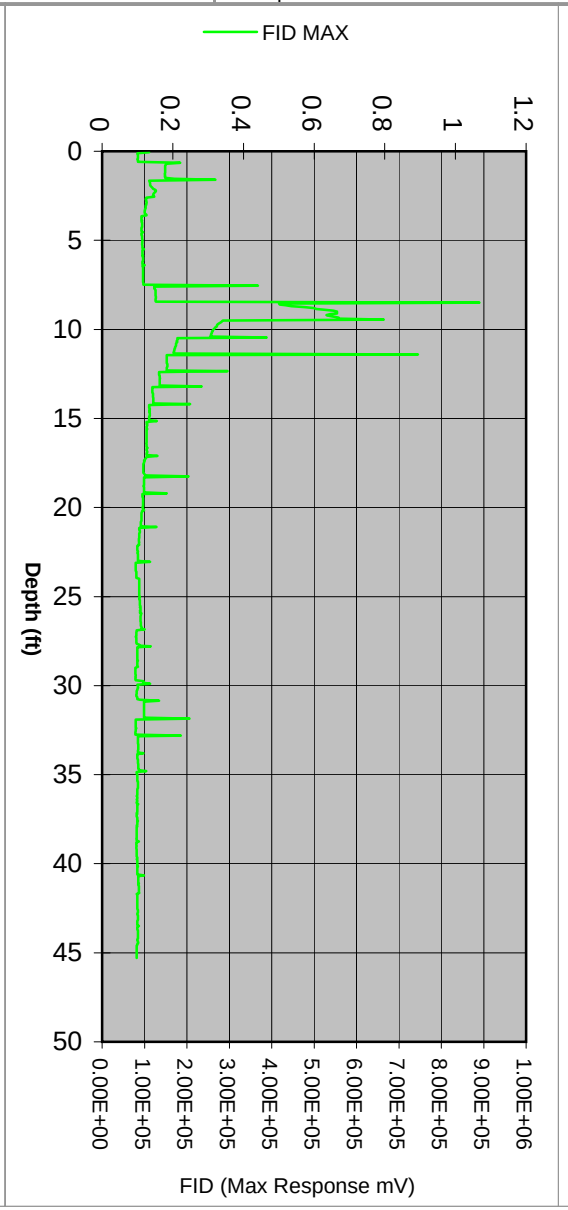
Notes: Hand auger to 5' bgs.

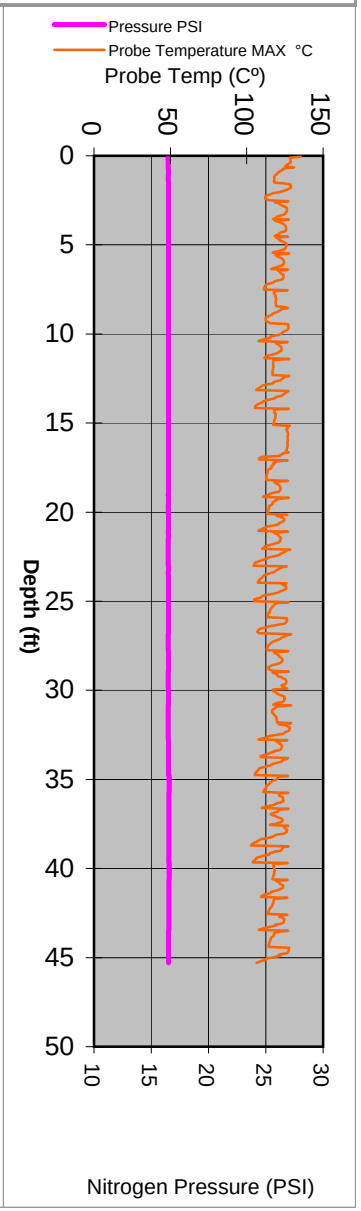
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Mon Aug 17 2009 15:25
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Mon Aug 17 2009 16:20
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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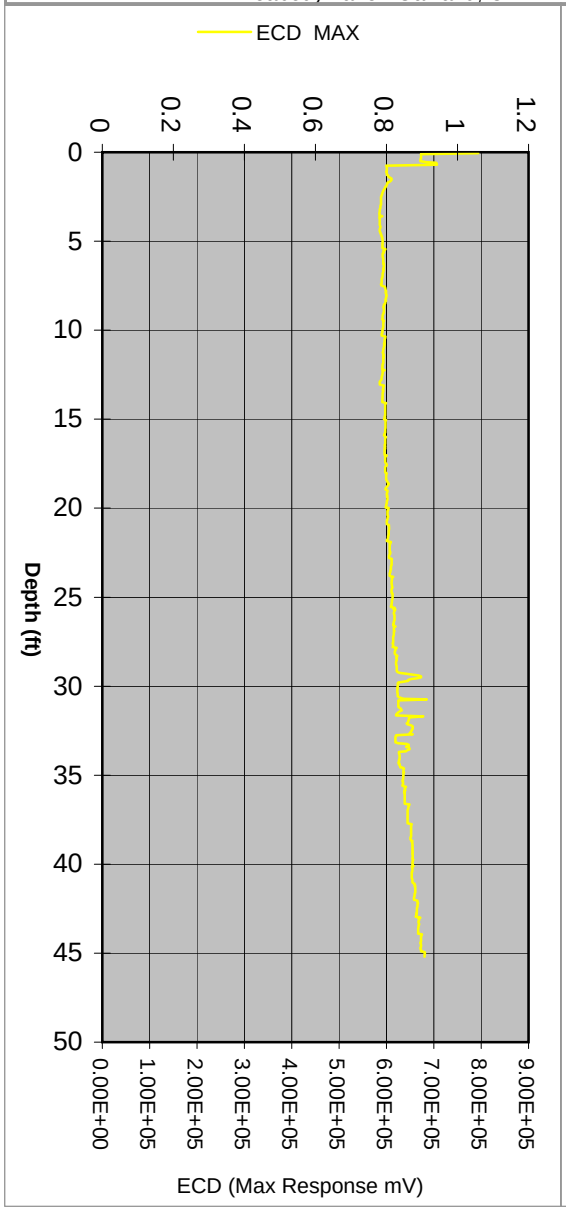
Boring Name: CPT-5

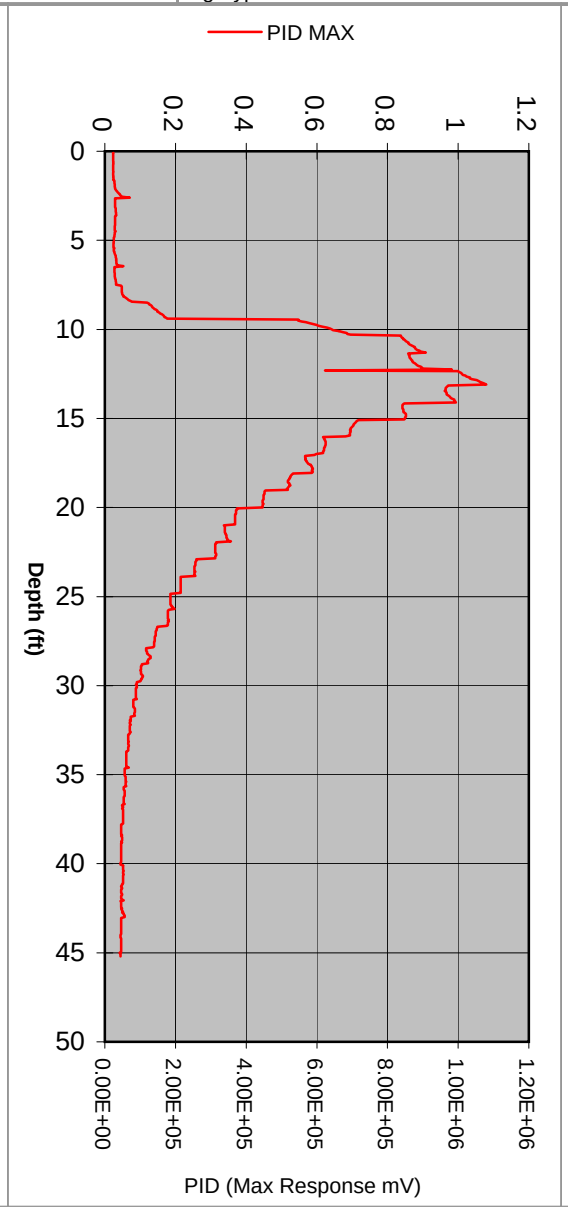
Total Depth (ft): 45.2

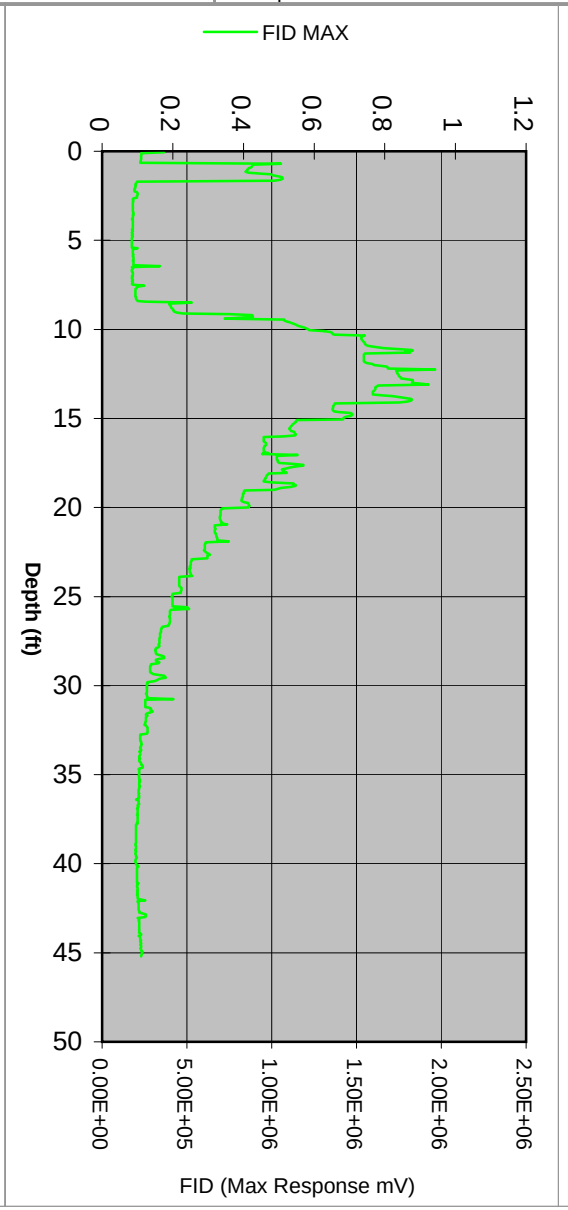
Notes: Hand auger to 5' bgs.

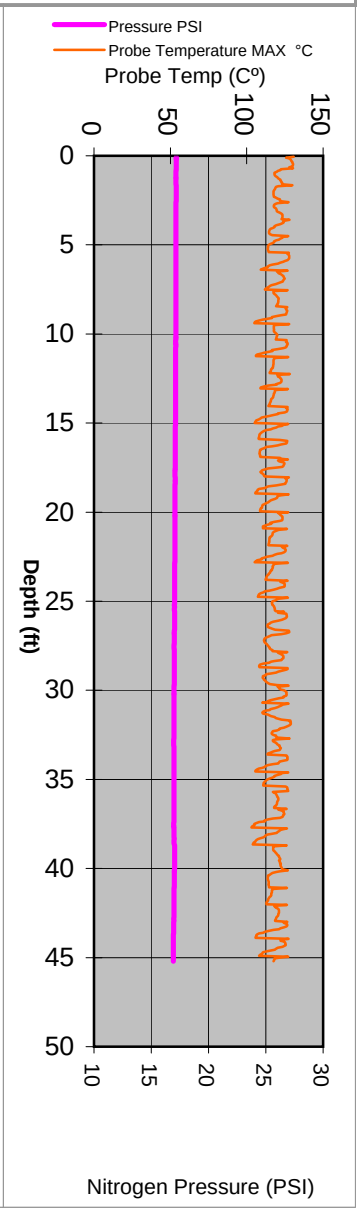
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Tue Aug 18 2009 07:48
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Tue Aug 18 2009 08:36
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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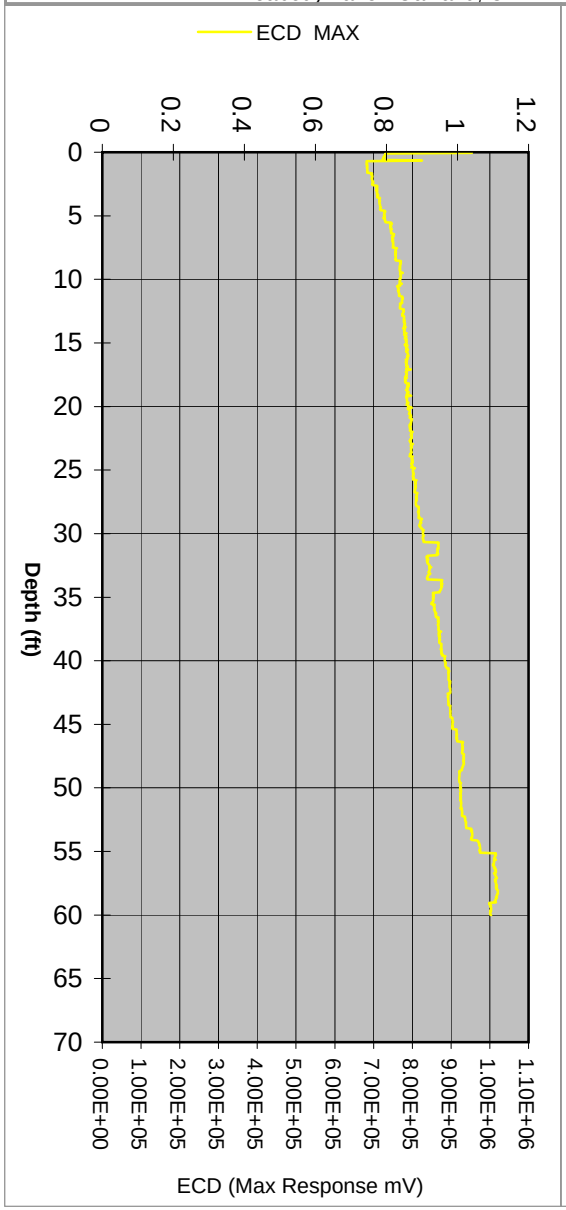
Boring Name: CPT-11

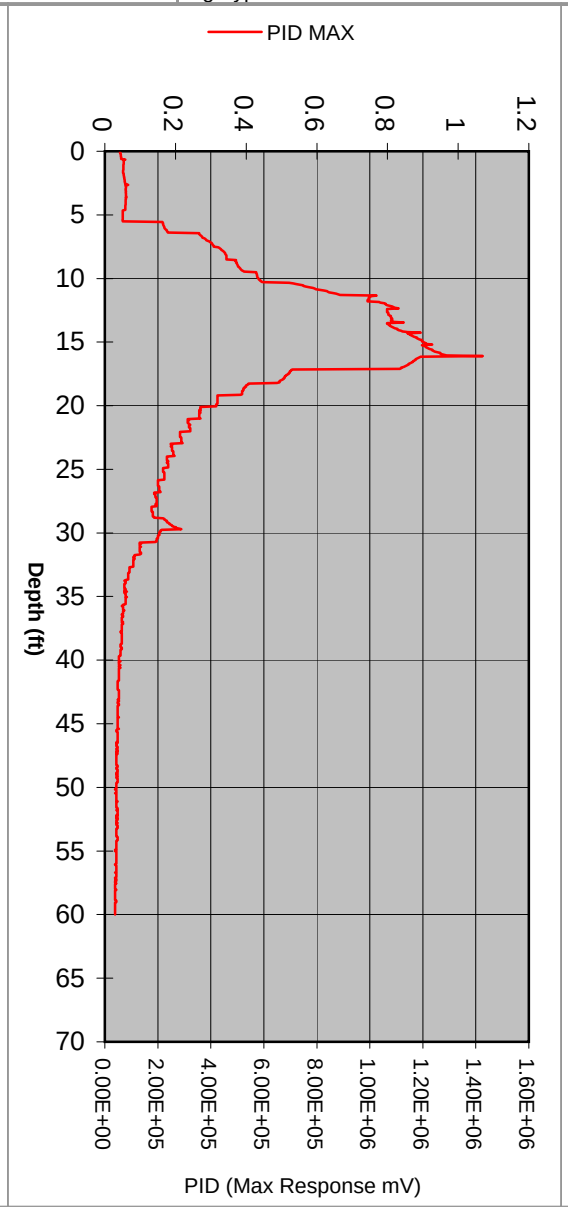
Total Depth (ft): 60

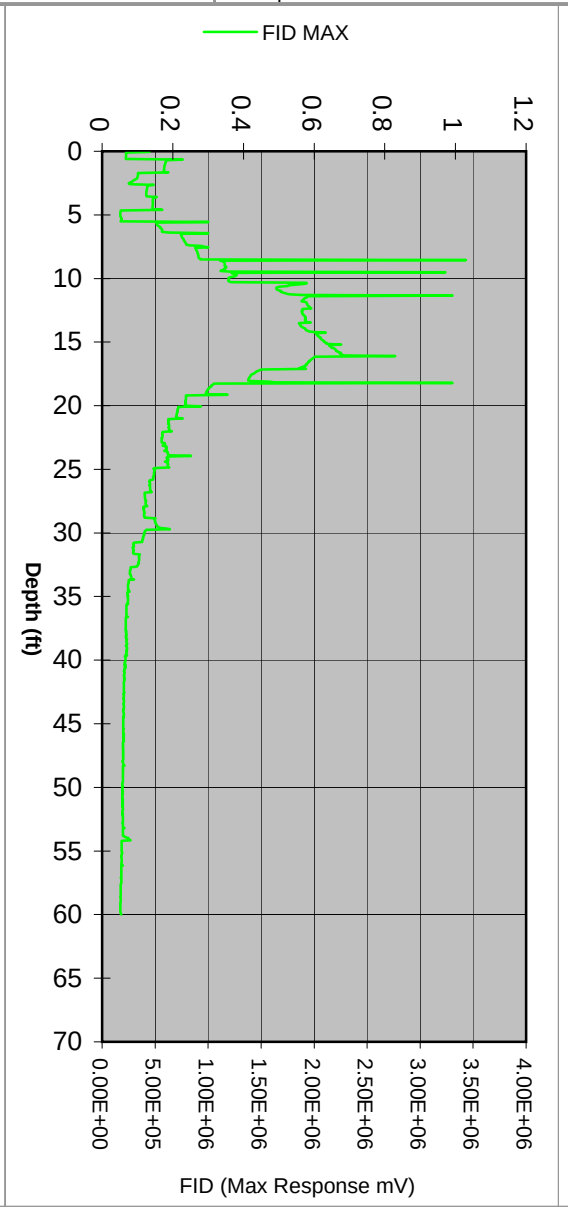
Notes: Hand auger to 5' bgs.

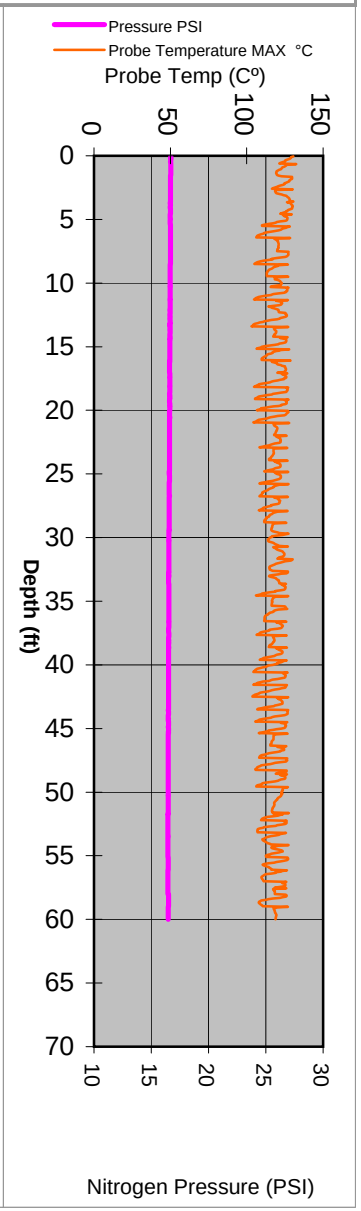
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Tue Aug 18 2009 09:30
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Tue Aug 18 2009 10:37
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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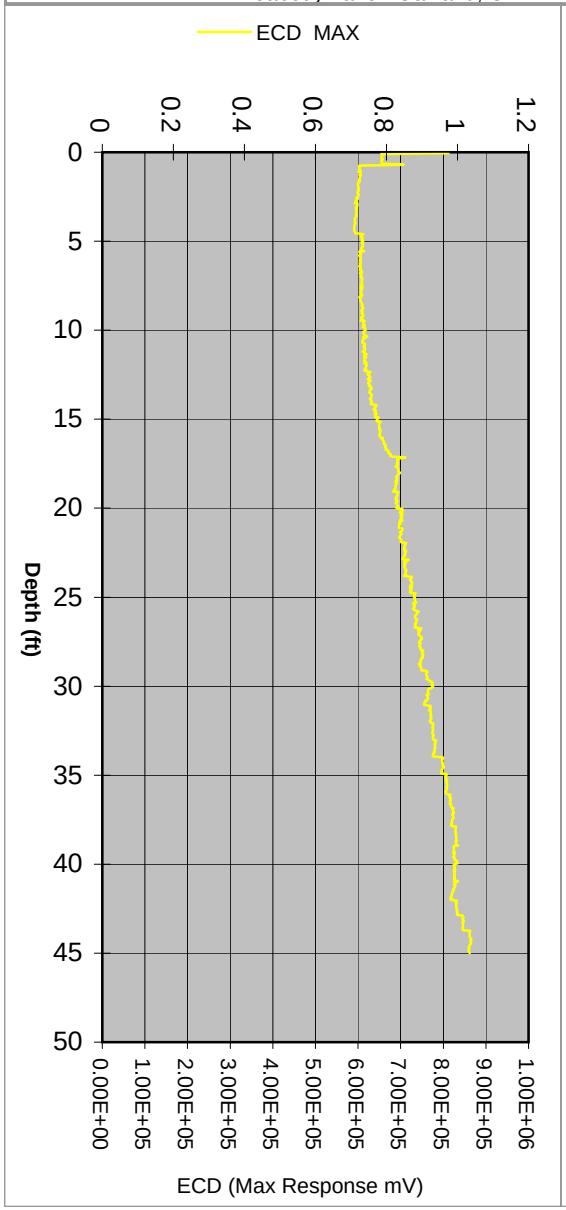
Boring Name: CPT-12

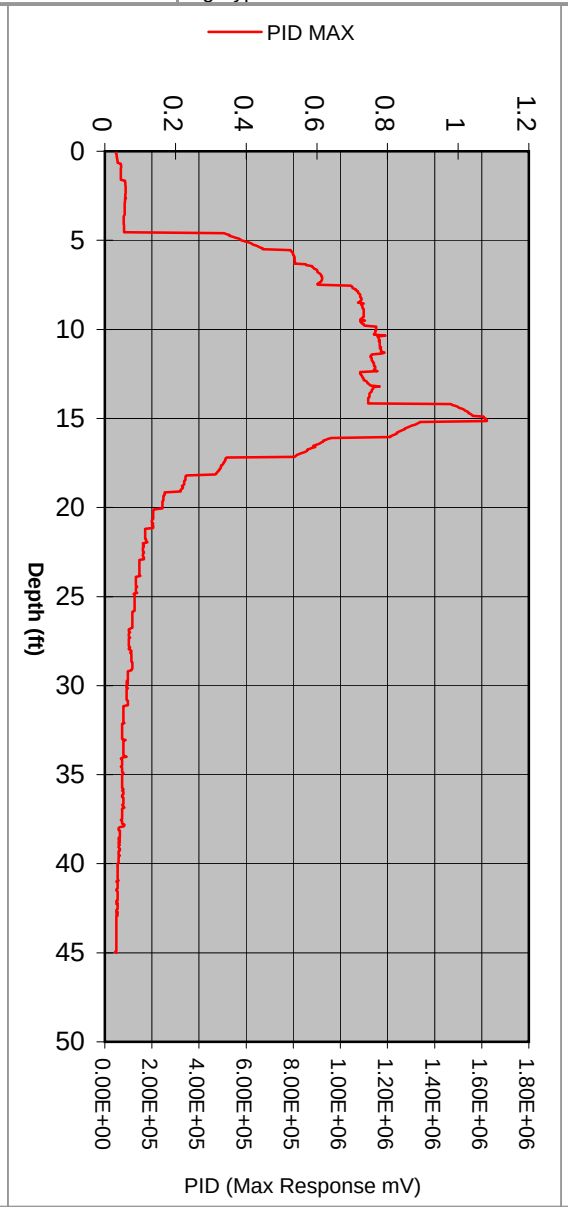
Total Depth (ft): 45

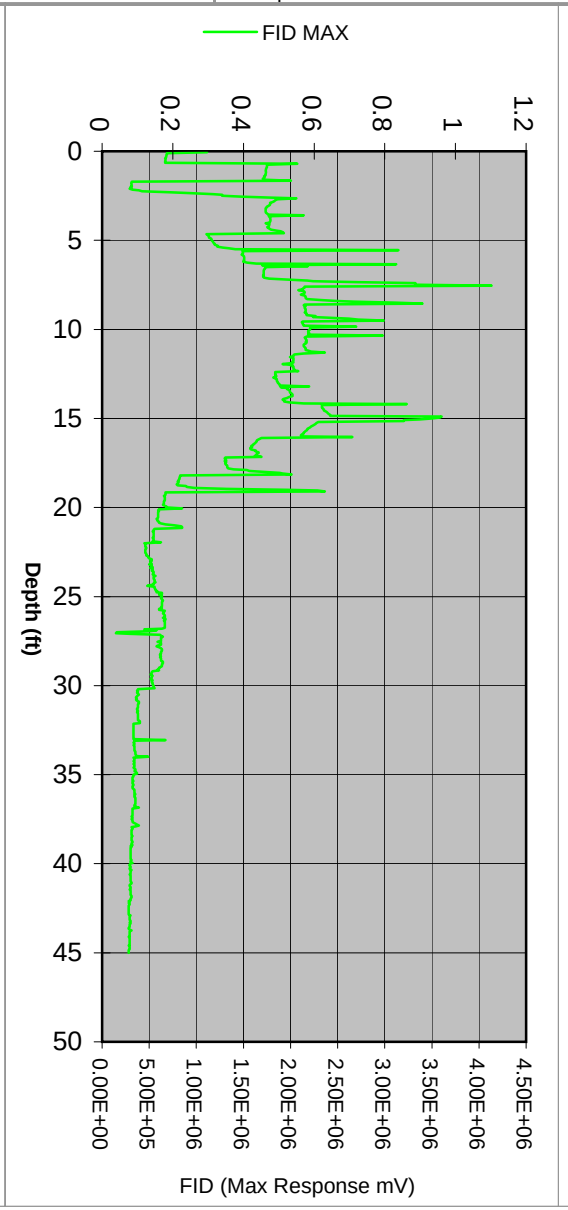
Notes: Hand auger to 5' bgs.

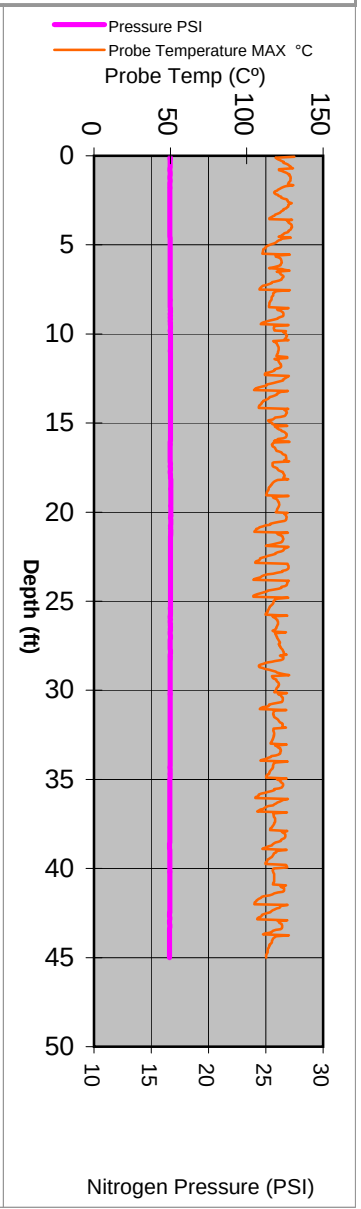
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Tue Aug 18 2009 13:48
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Tue Aug 18 2009 14:34
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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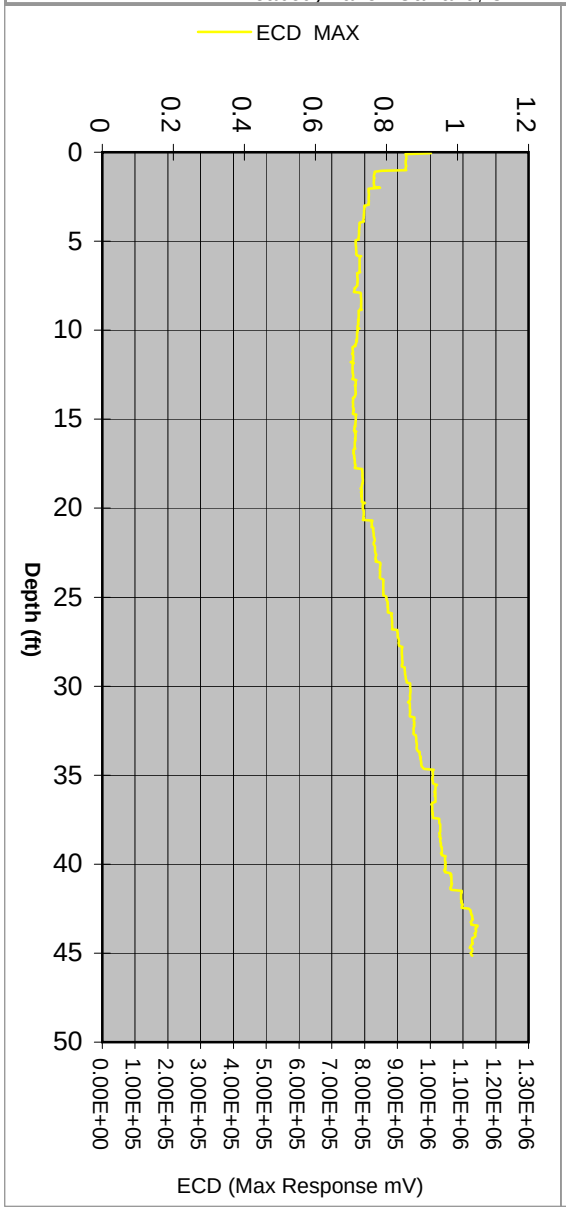
Boring Name: CPT-10

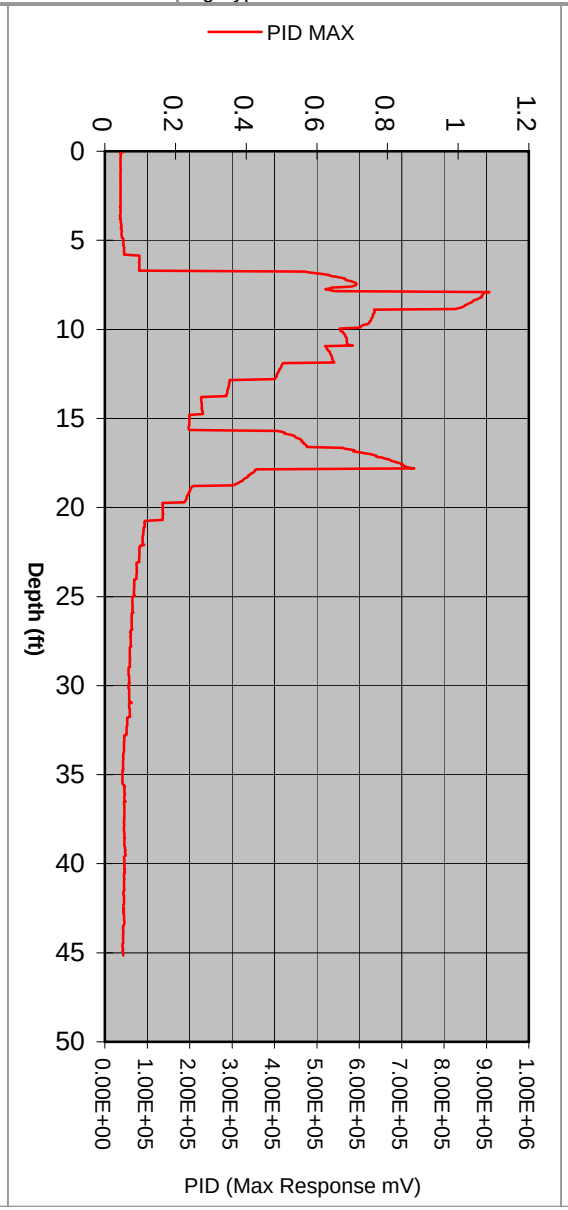
Total Depth (ft): 45.15

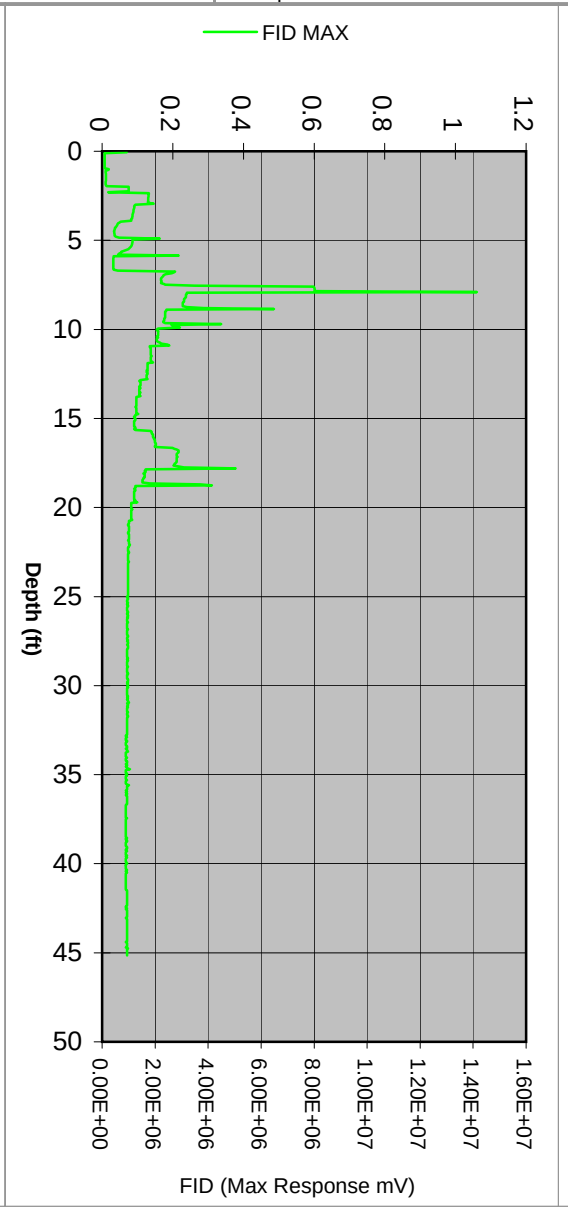
Notes: Hand auger to 5' bgs.

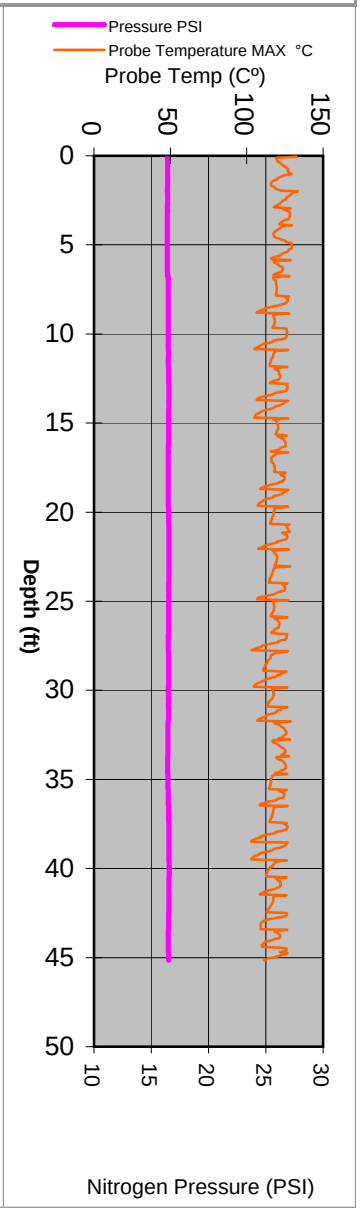
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Tue Aug 18 2009 15:24
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Tue Aug 18 2009 16:17
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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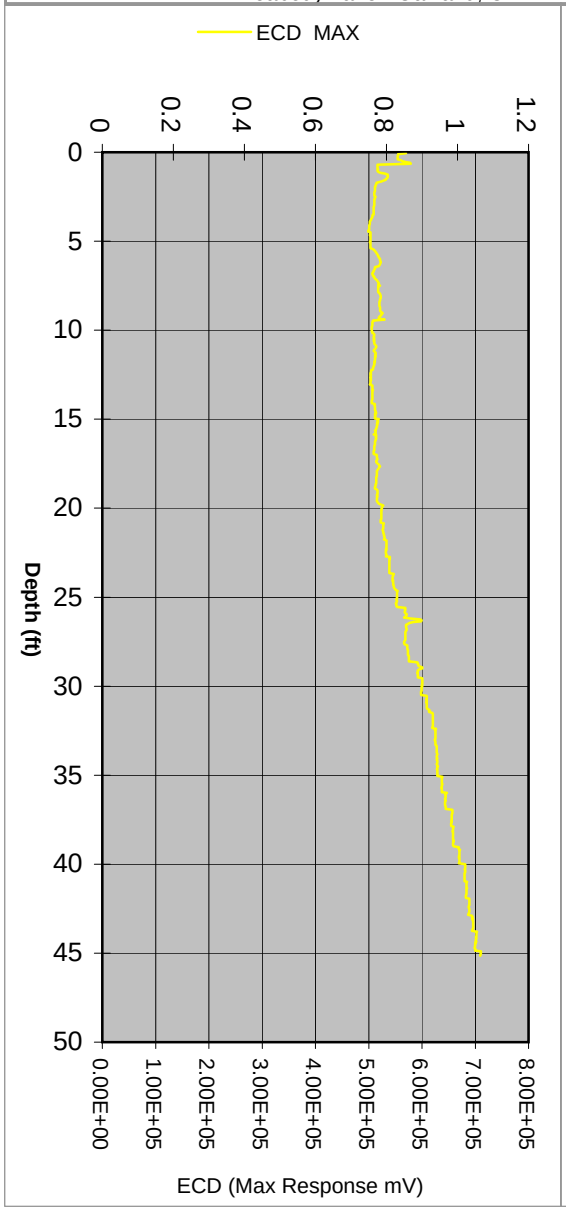
Boring Name: CPT-6

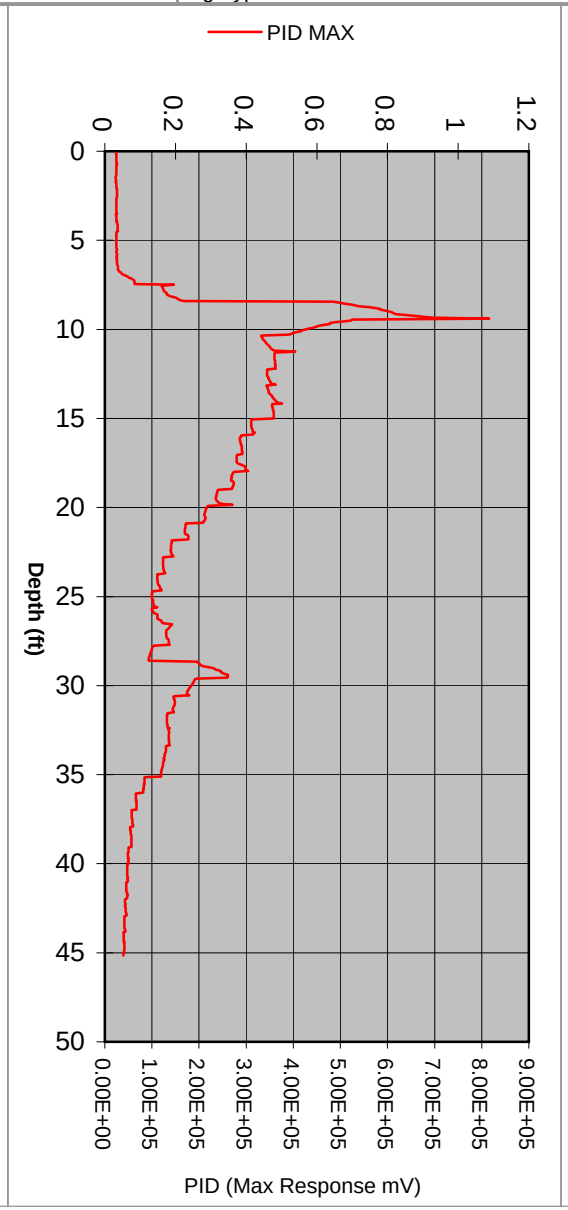
Total Depth (ft): 45.15

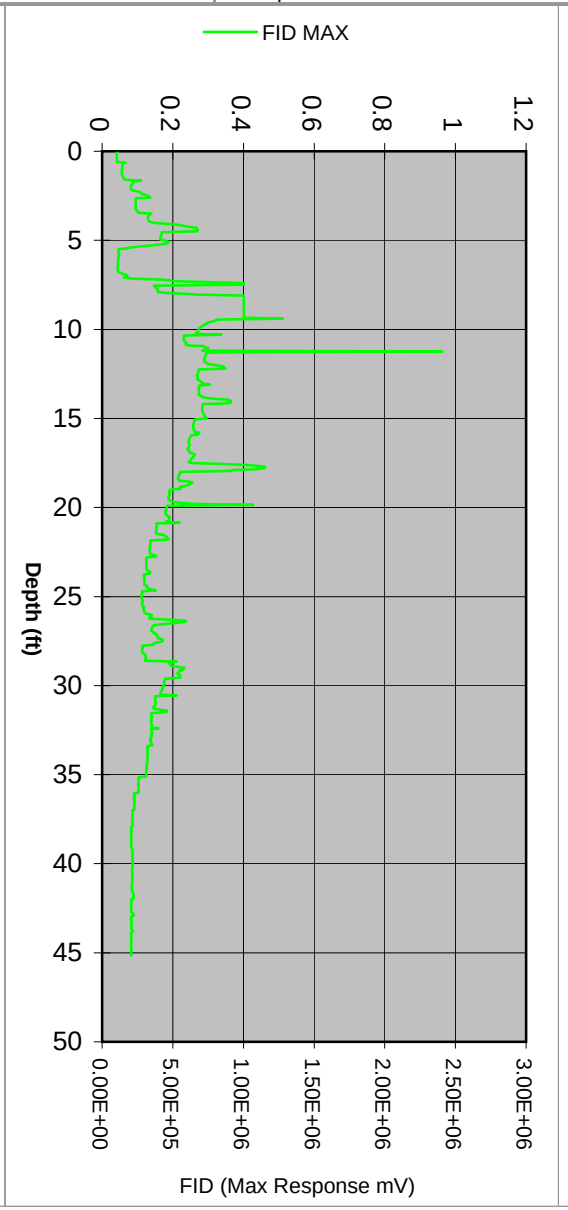
Notes: Hand auger to 5' bgs.

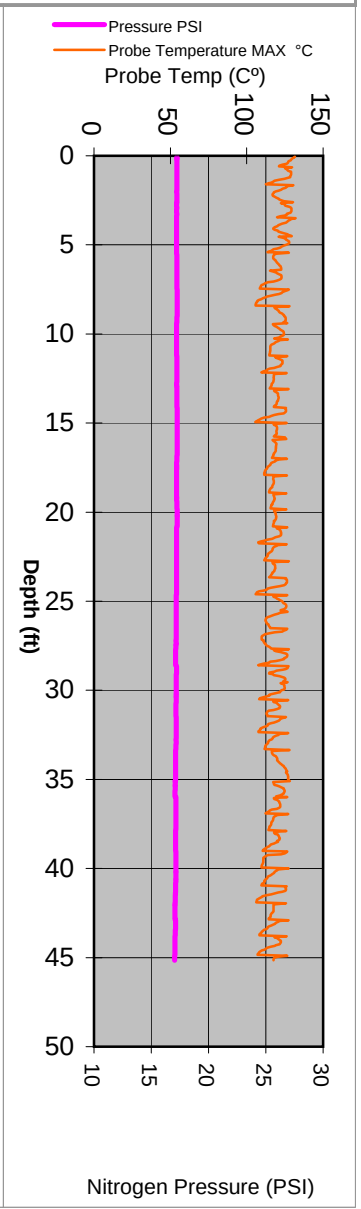
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Wed Aug 19 2009 07:48
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Wed Aug 19 2009 08:42
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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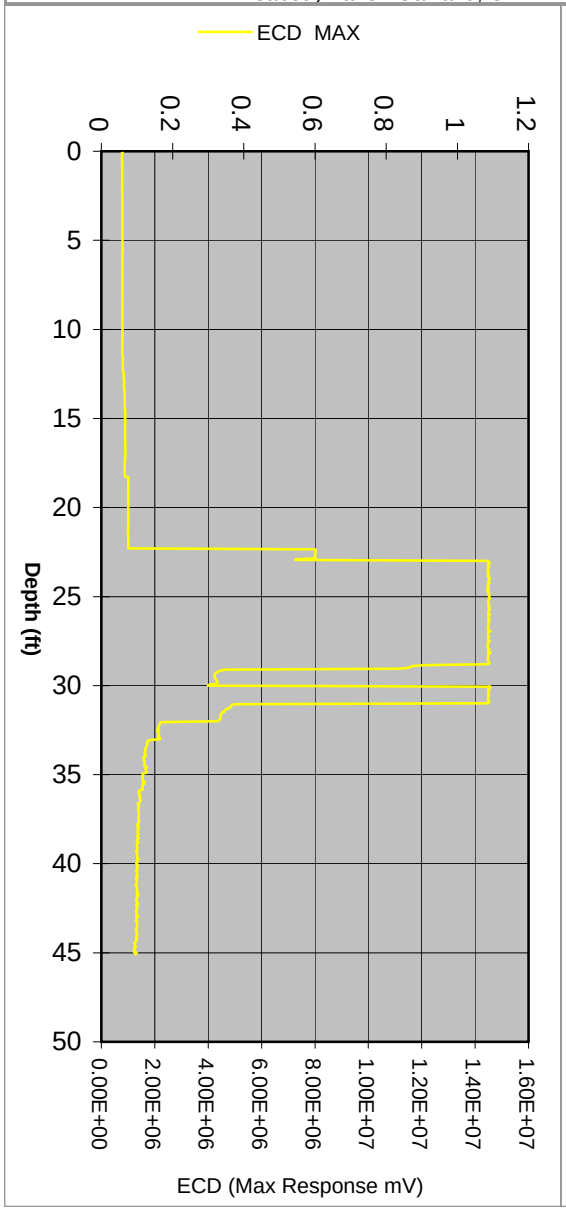
Boring Name: CPT-7

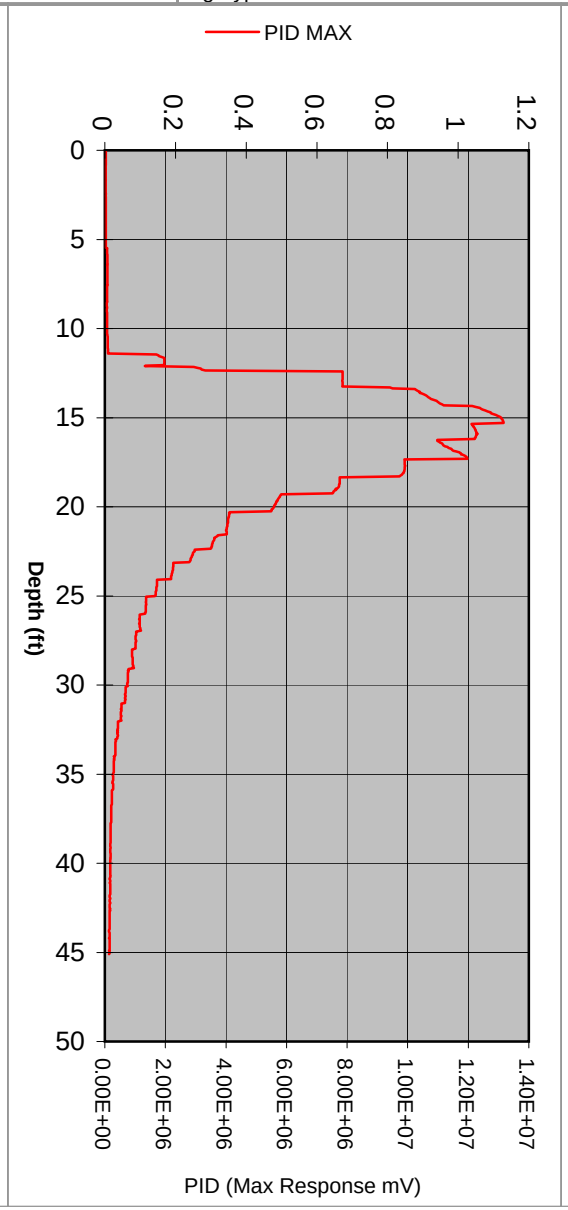
Total Depth (ft): 45.1

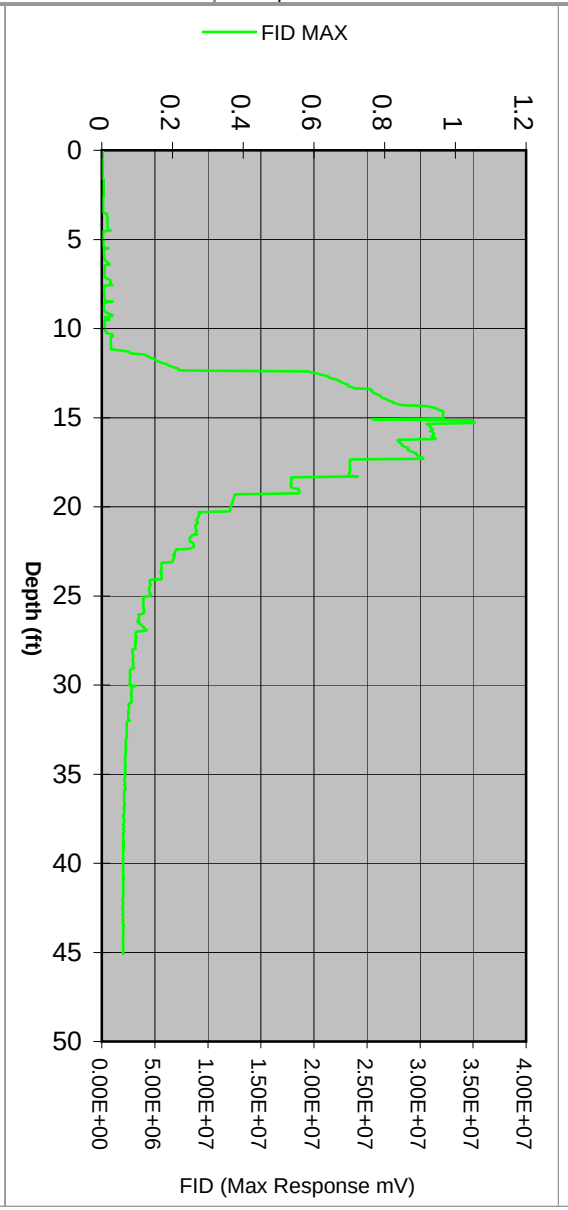
Notes: Hand auger to 5' bgs.

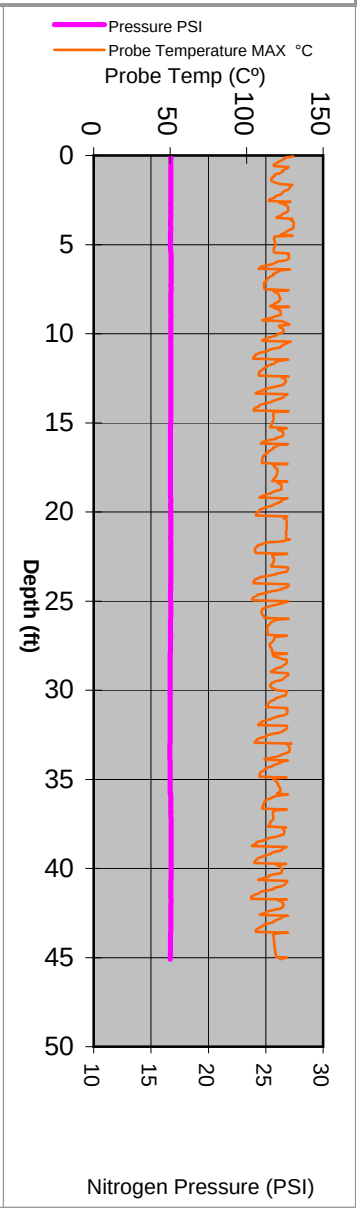
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Wed Aug 19 2009 09:25
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Wed Aug 19 2009 10:17
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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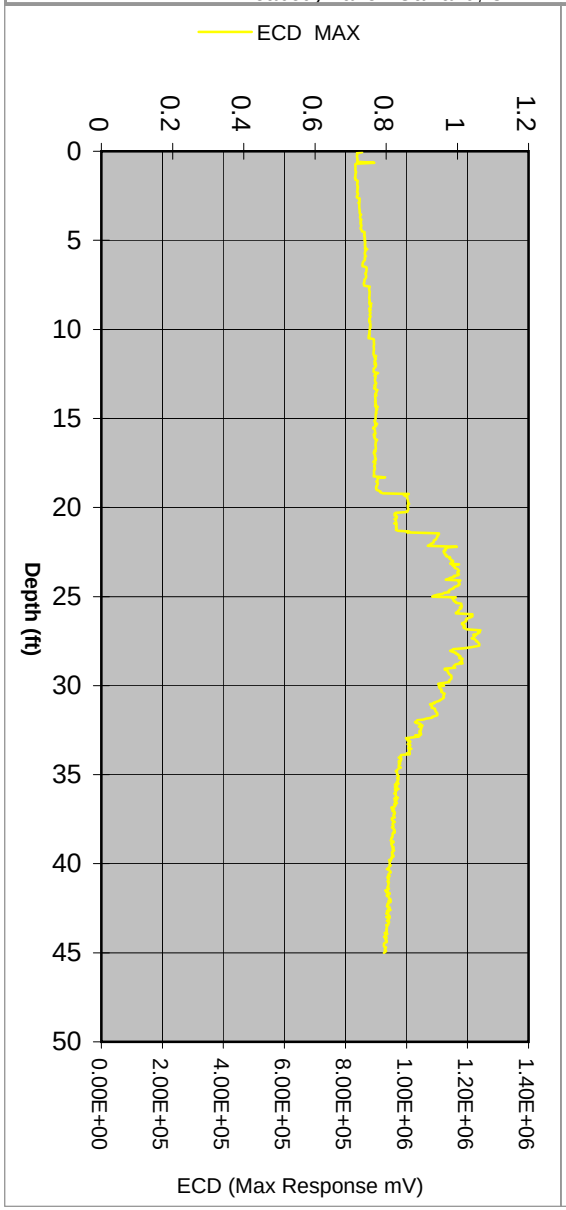
Boring Name: CPT-8

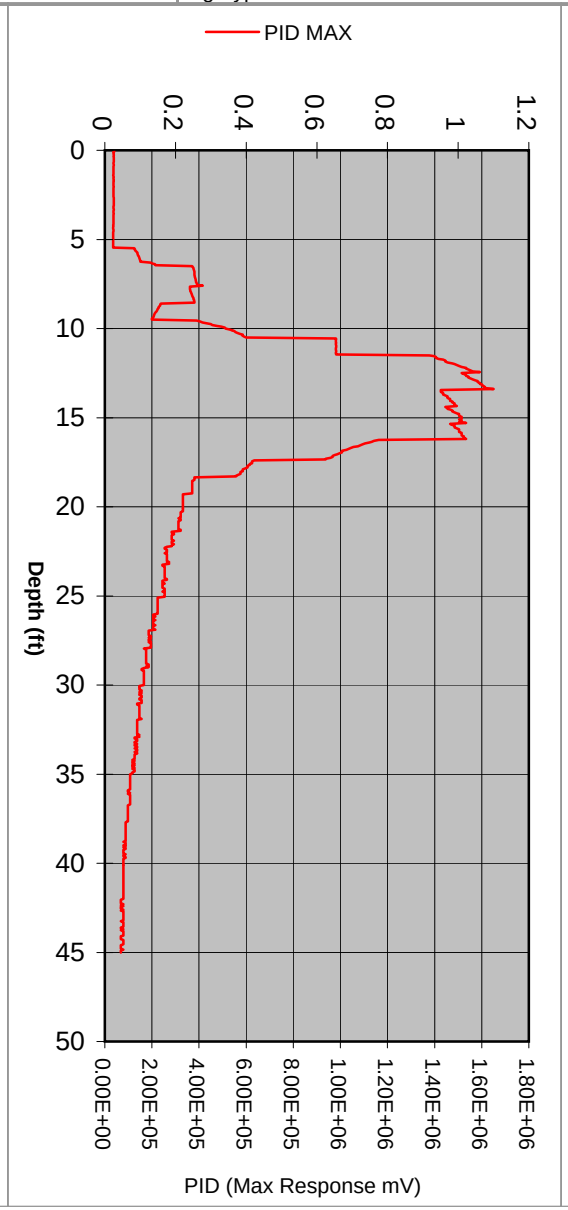
Total Depth (ft): 45

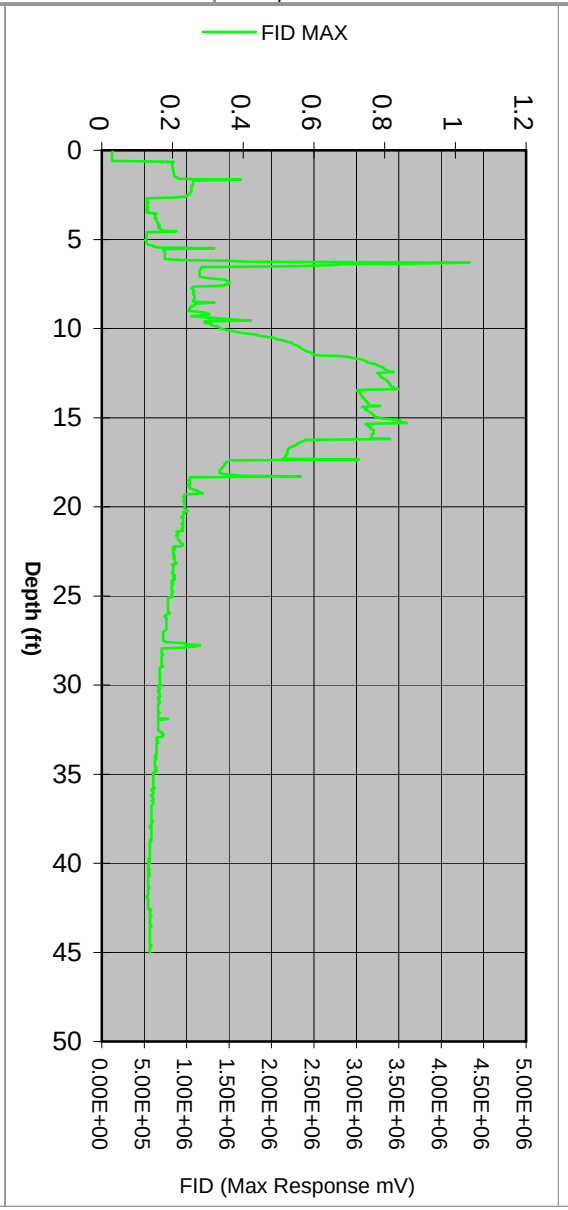
Notes: Hand auger to 5' bgs.

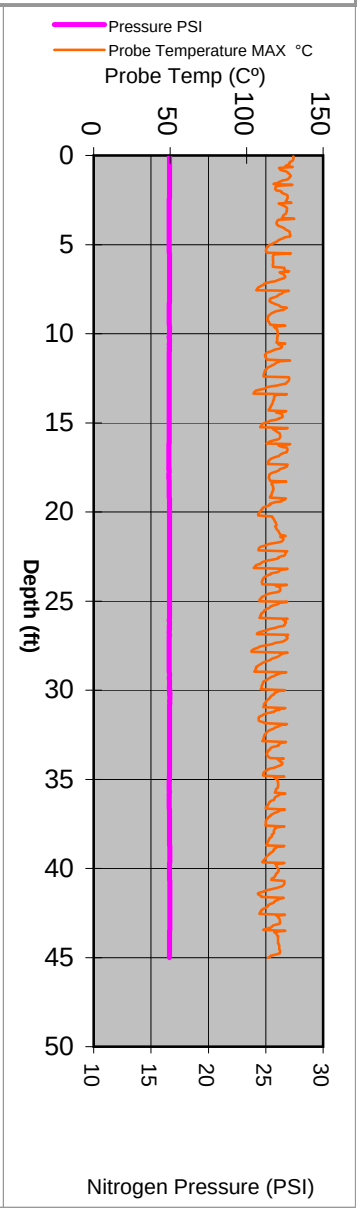
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Wed Aug 19 2009 11:14
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Wed Aug 19 2009 12:03
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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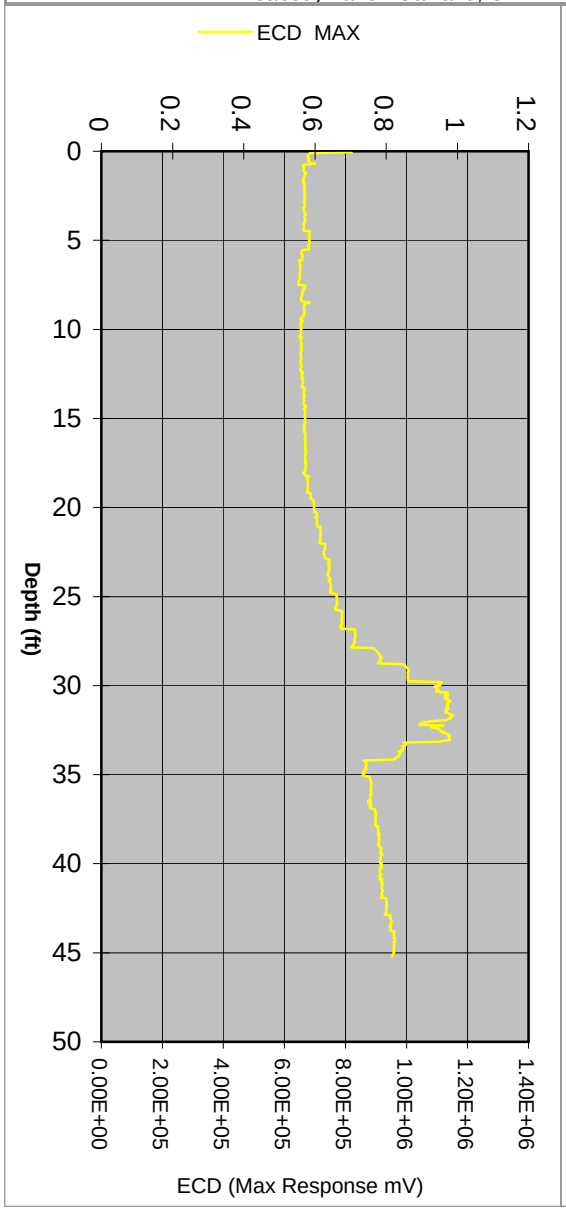
Boring Name: CPT-9

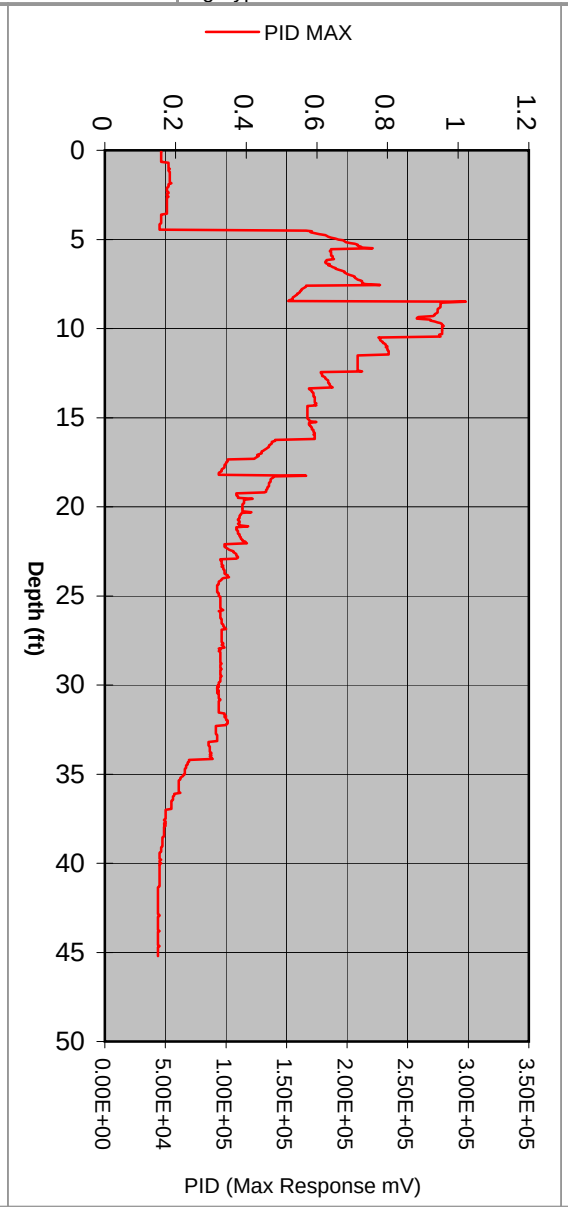
Total Depth (ft): 45.2

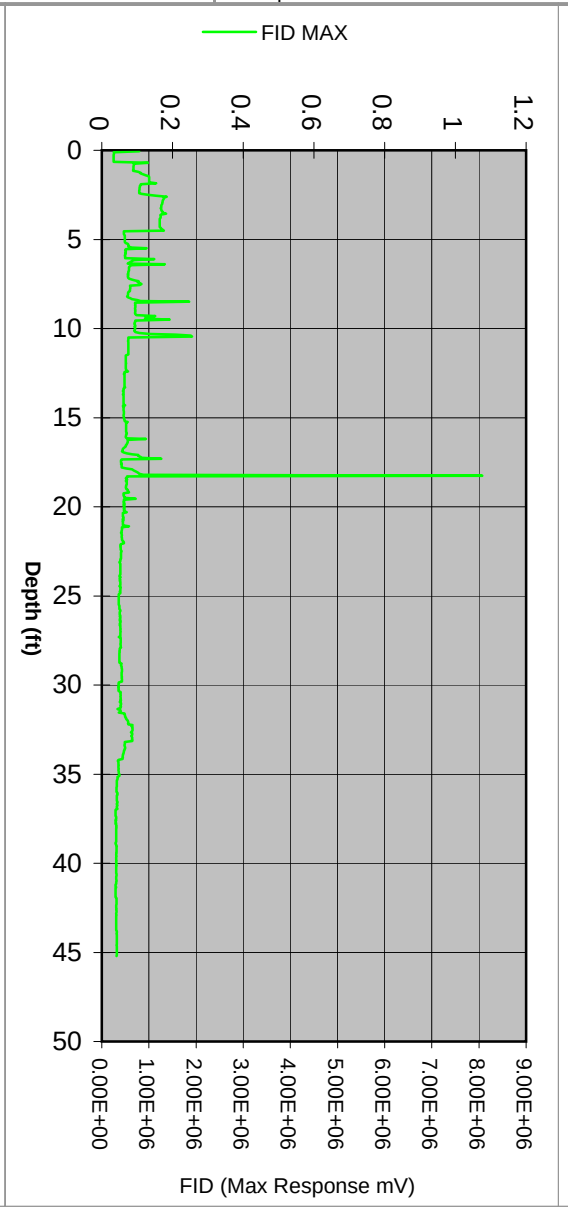
Notes: Hand auger to 5' bgs.

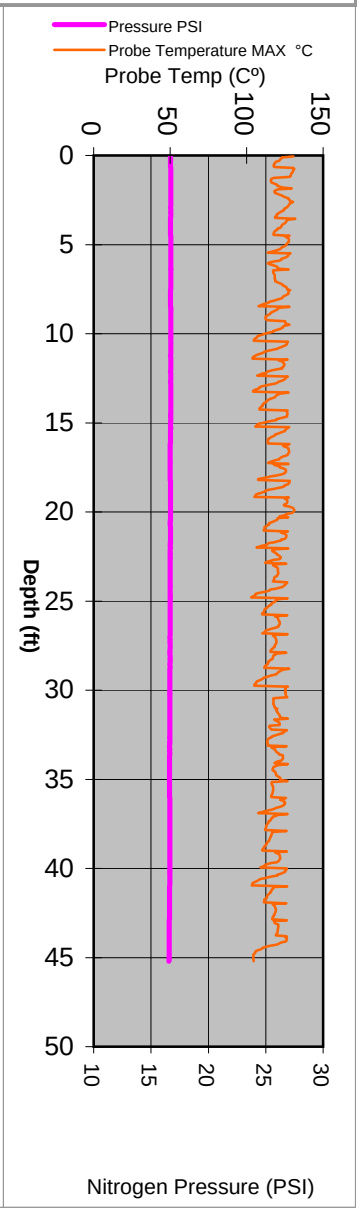
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Wed Aug 19 2009 13:48
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Wed Aug 19 2009 14:40
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









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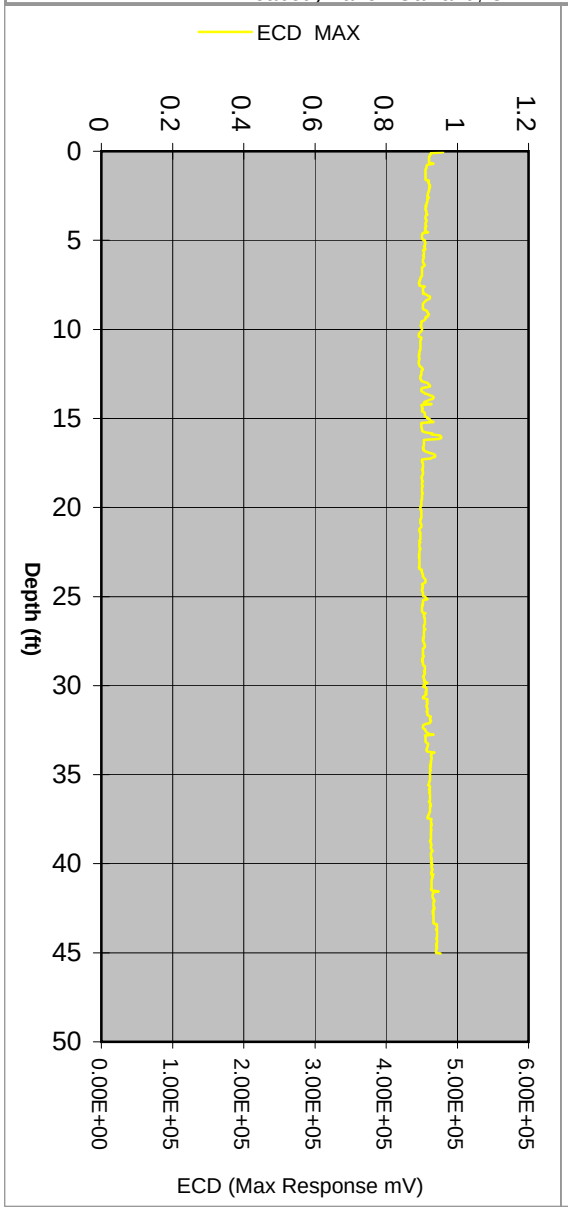
Boring Name: CPT-13

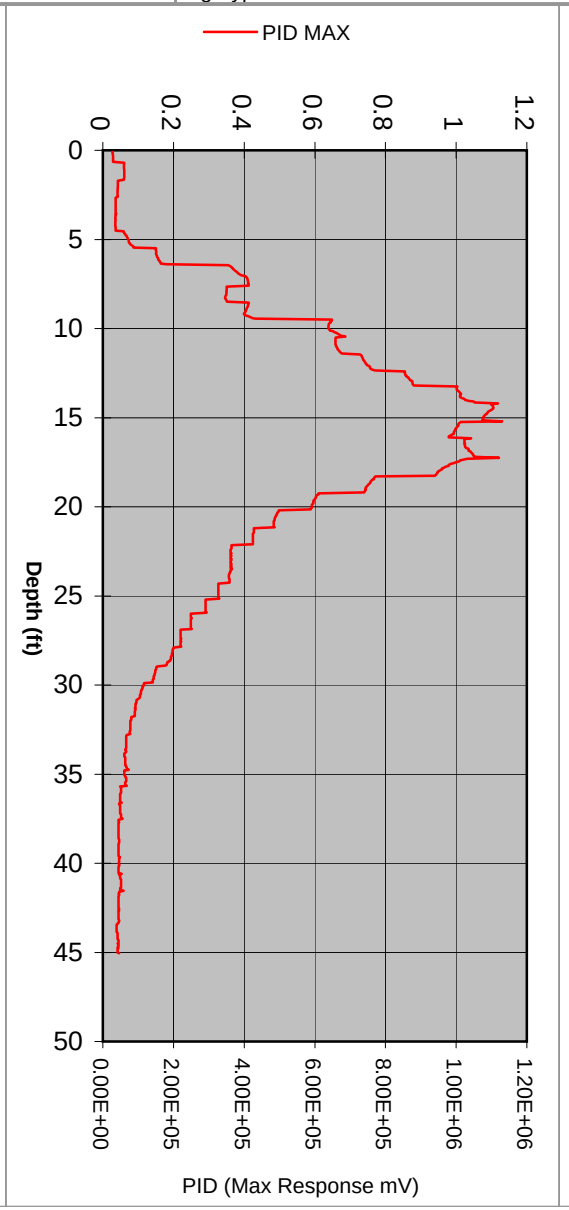
Total Depth (ft): 45.05

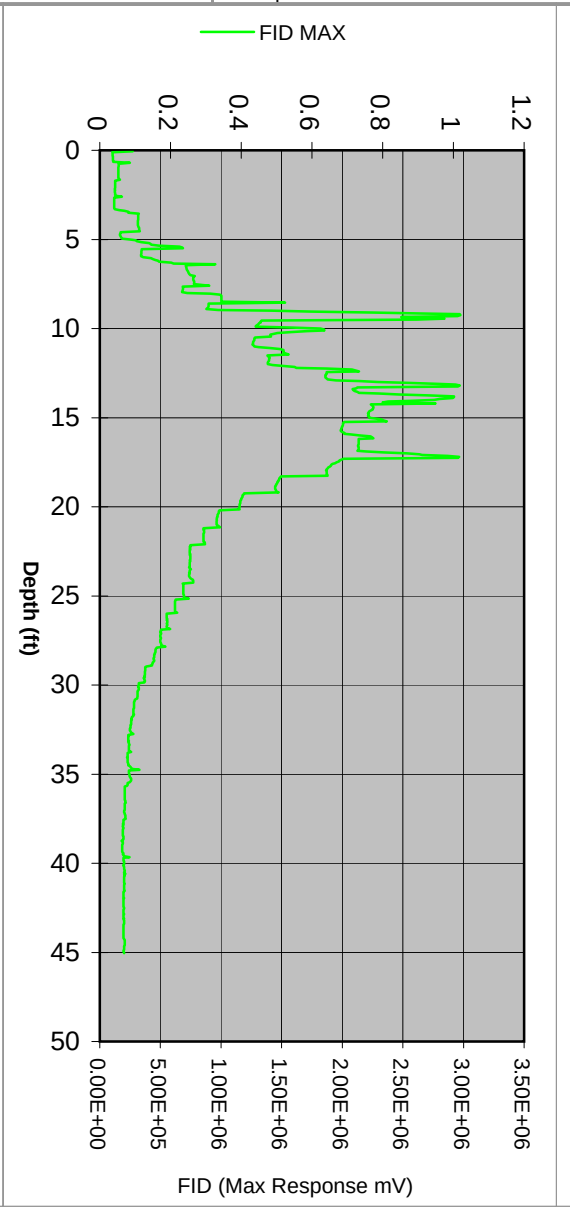
Notes: Hand auger to 5' bgs.

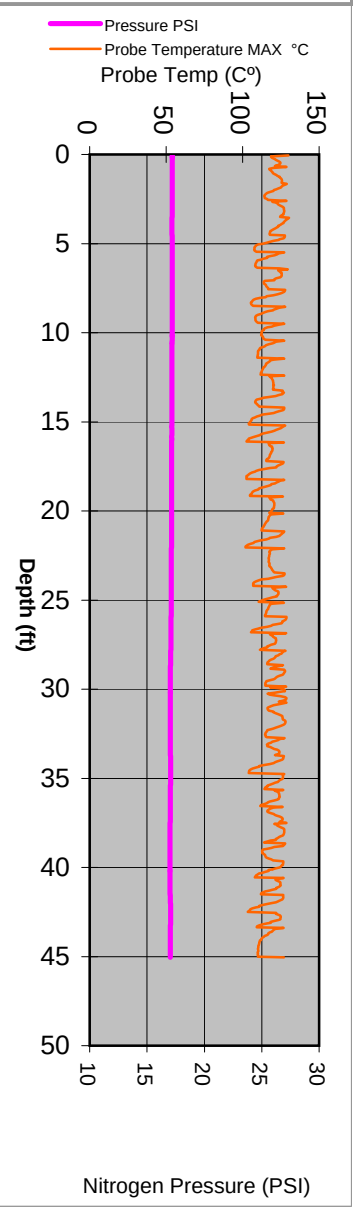
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Thu Aug 20 2009 07:27
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Thu Aug 20 2009 08:19
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









5292 Pacheco Boulevard
Pacheco, CA 94553
P:(925) 521-1490
F:(925) 521-1494
www.vironex.com

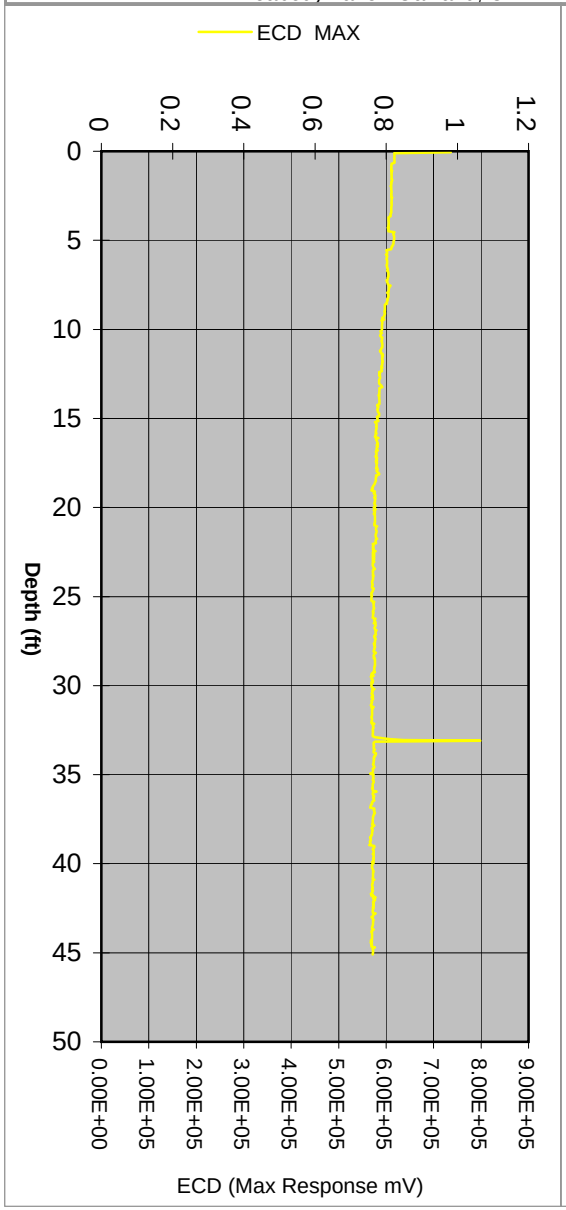
Boring Name: CPT-14

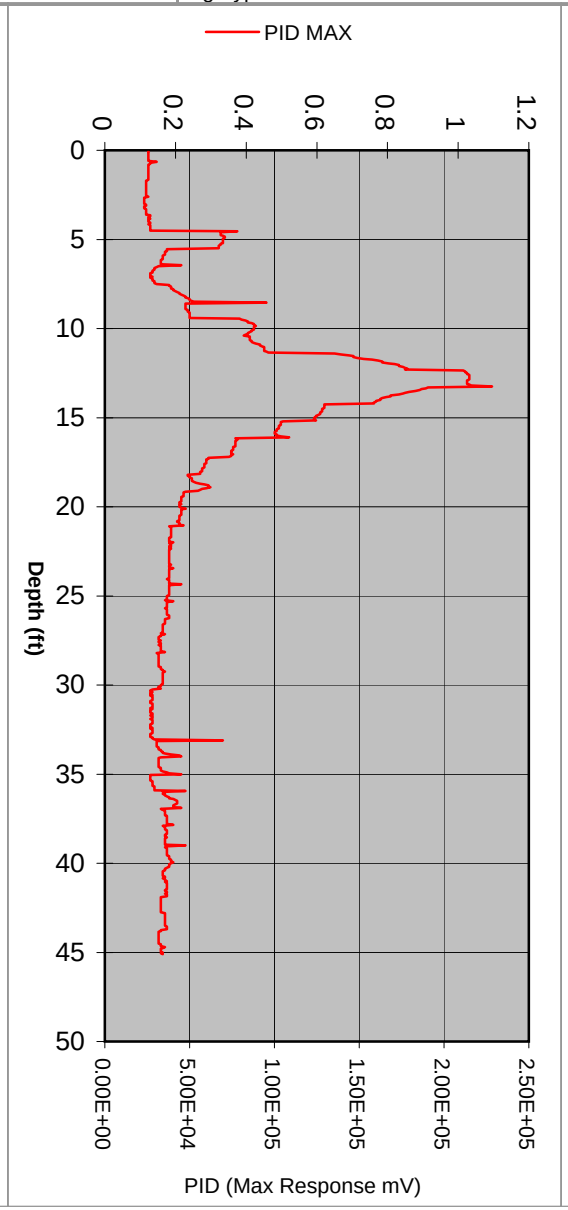
Total Depth (ft): 45.1

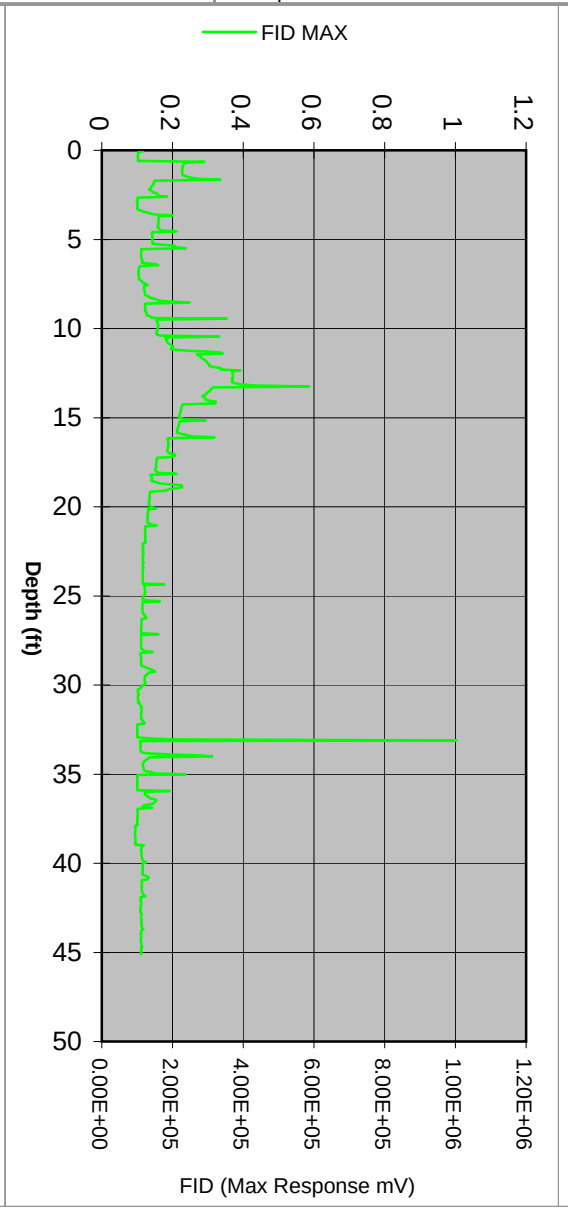
Notes: Hand auger to 5' bgs.

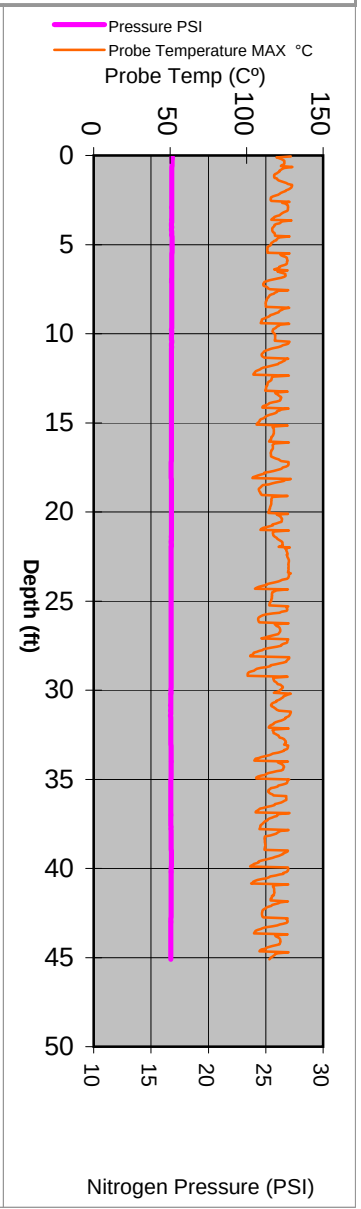
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Thu Aug 20 2009 09:08
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Thu Aug 20 2009 10:06
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul









5292 Pacheco Boulevard
Pacheco, CA 94553
P:(925) 521-1490
F:(925) 521-1494
www.vironex.com

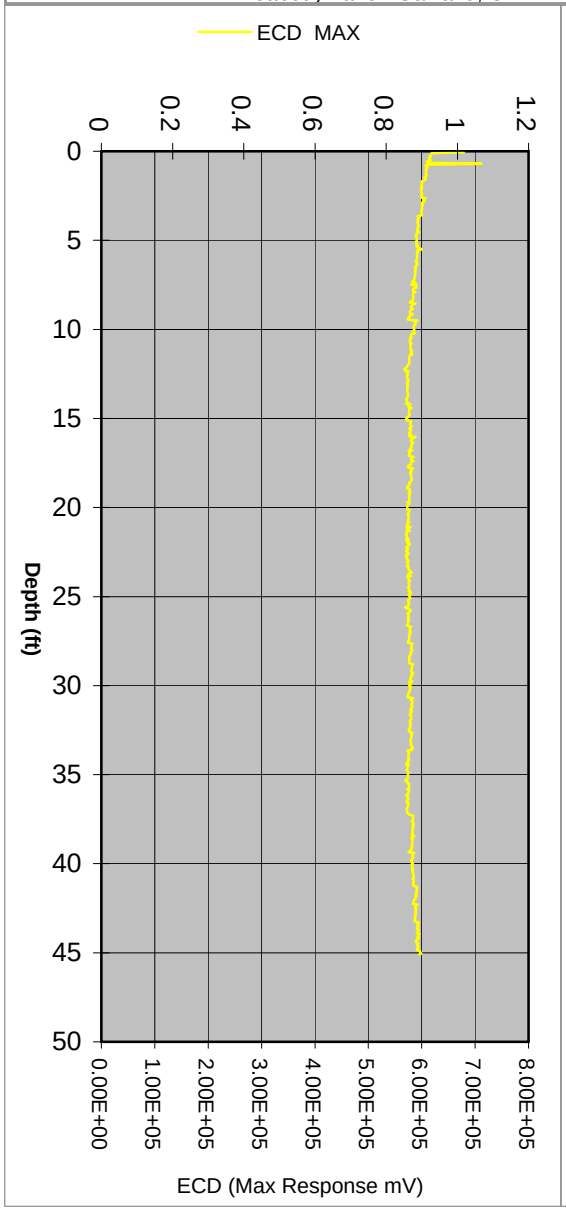
Boring Name: CPT-15

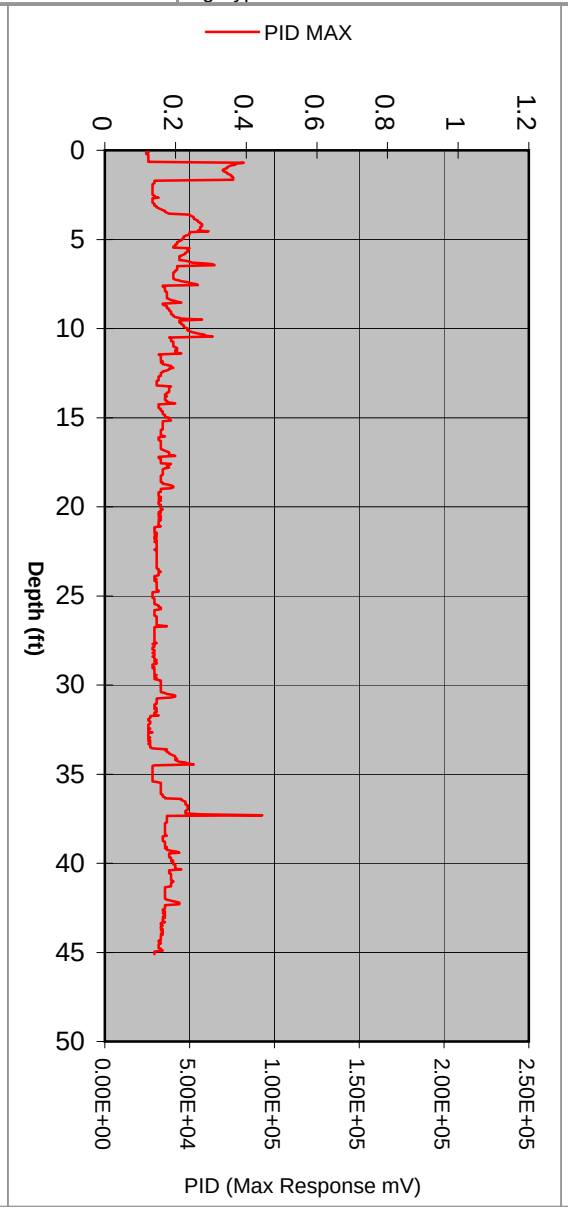
Total Depth (ft): 45.1

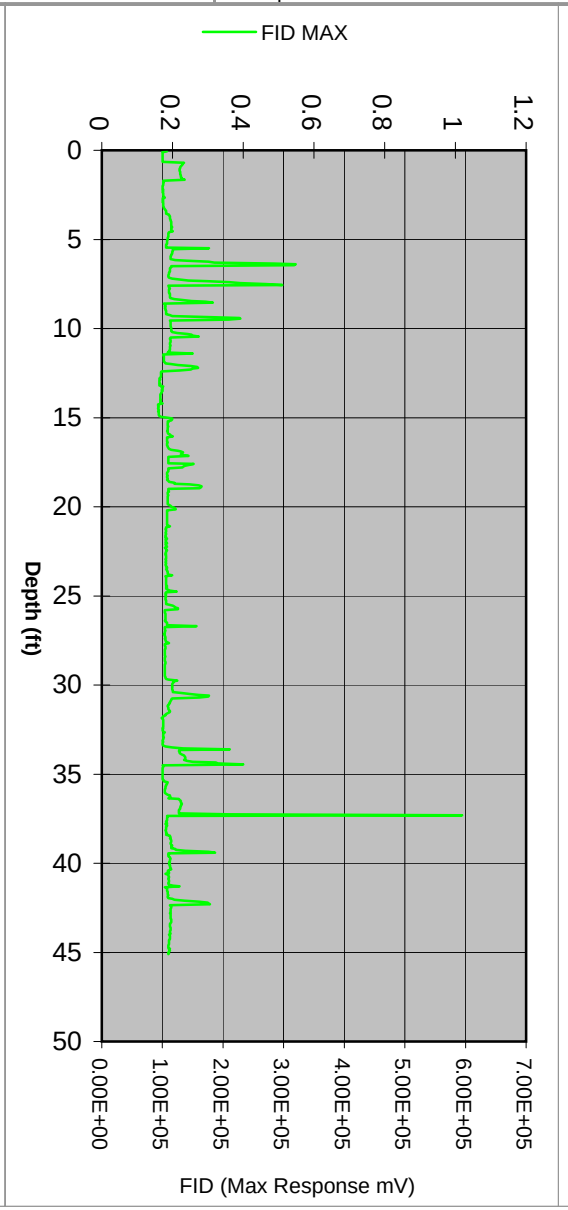
Notes: Hand auger to 5' bgs.

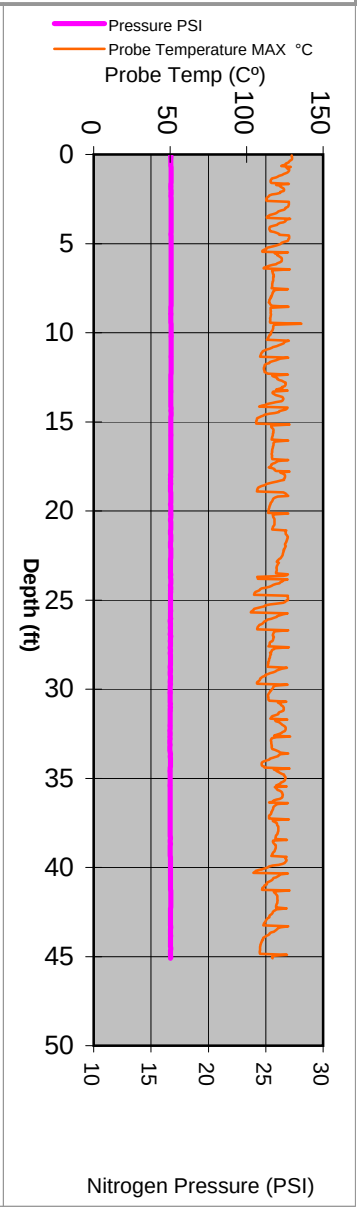
GW Depth (ft): Depth of GW Provided by Client

Job Information		MIP Sampling Information			
Client Company:	CRA	Trunkline Length:	200'	Start Boring Time:	Thu Aug 20 2009 10:58
Project Name:	Nady	Probe Type:	CPT/MIP Block	End Boring Time:	Thu Aug 20 2009 11:51
Site Address:	Peabody Lane - Oakland, CA	Rig Type:	CPT Unit	MIP Specialist:	Jeff Paul

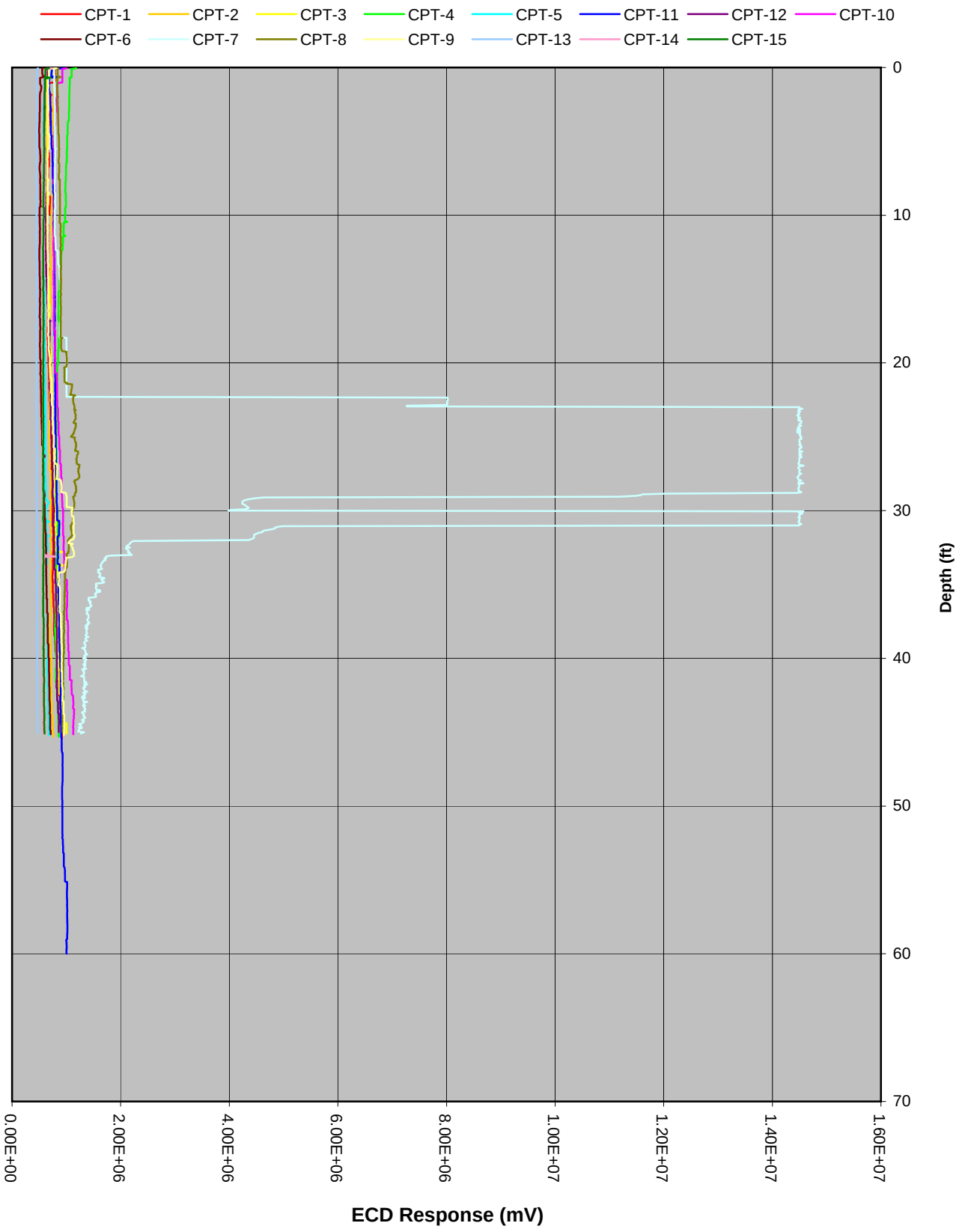




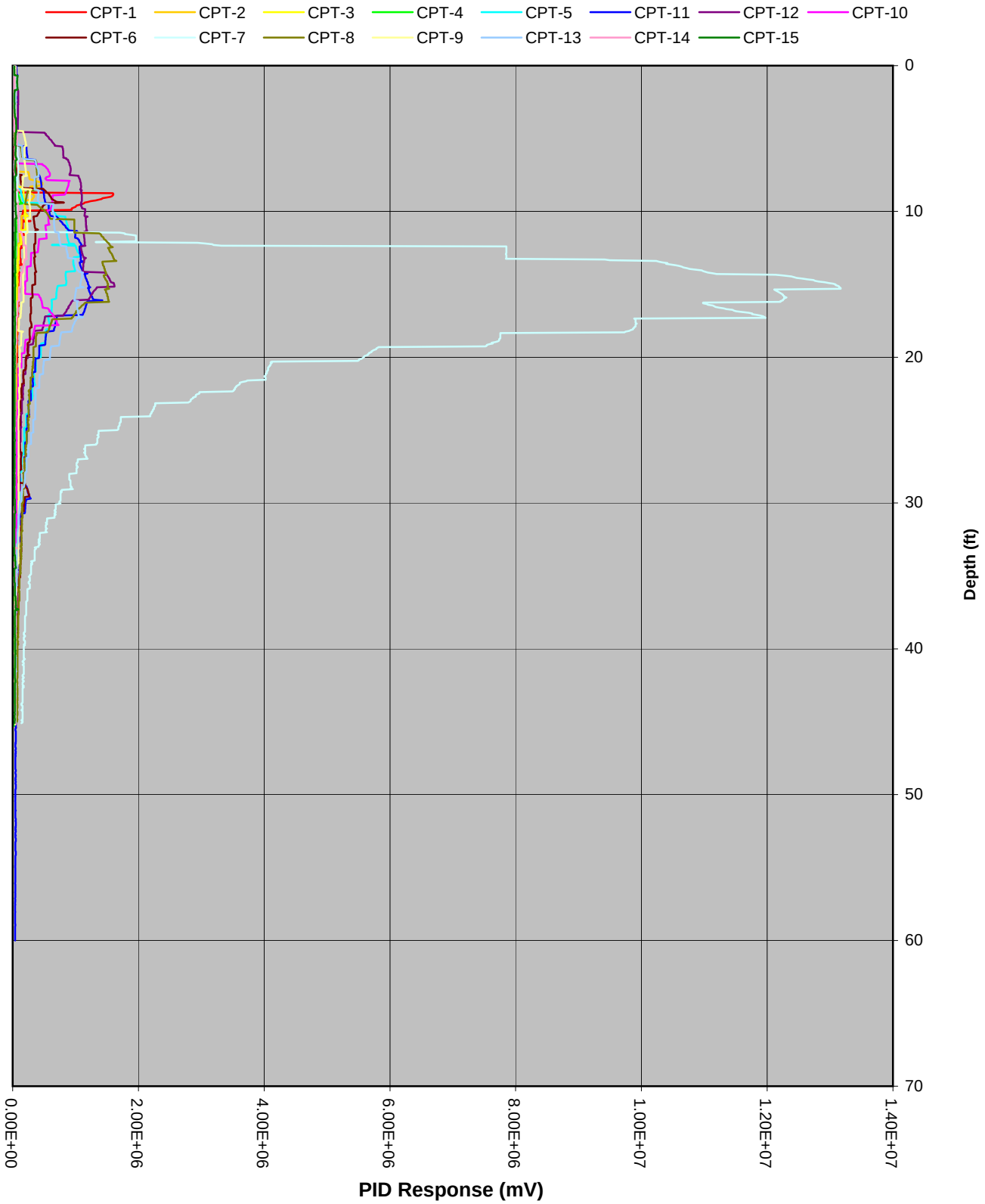




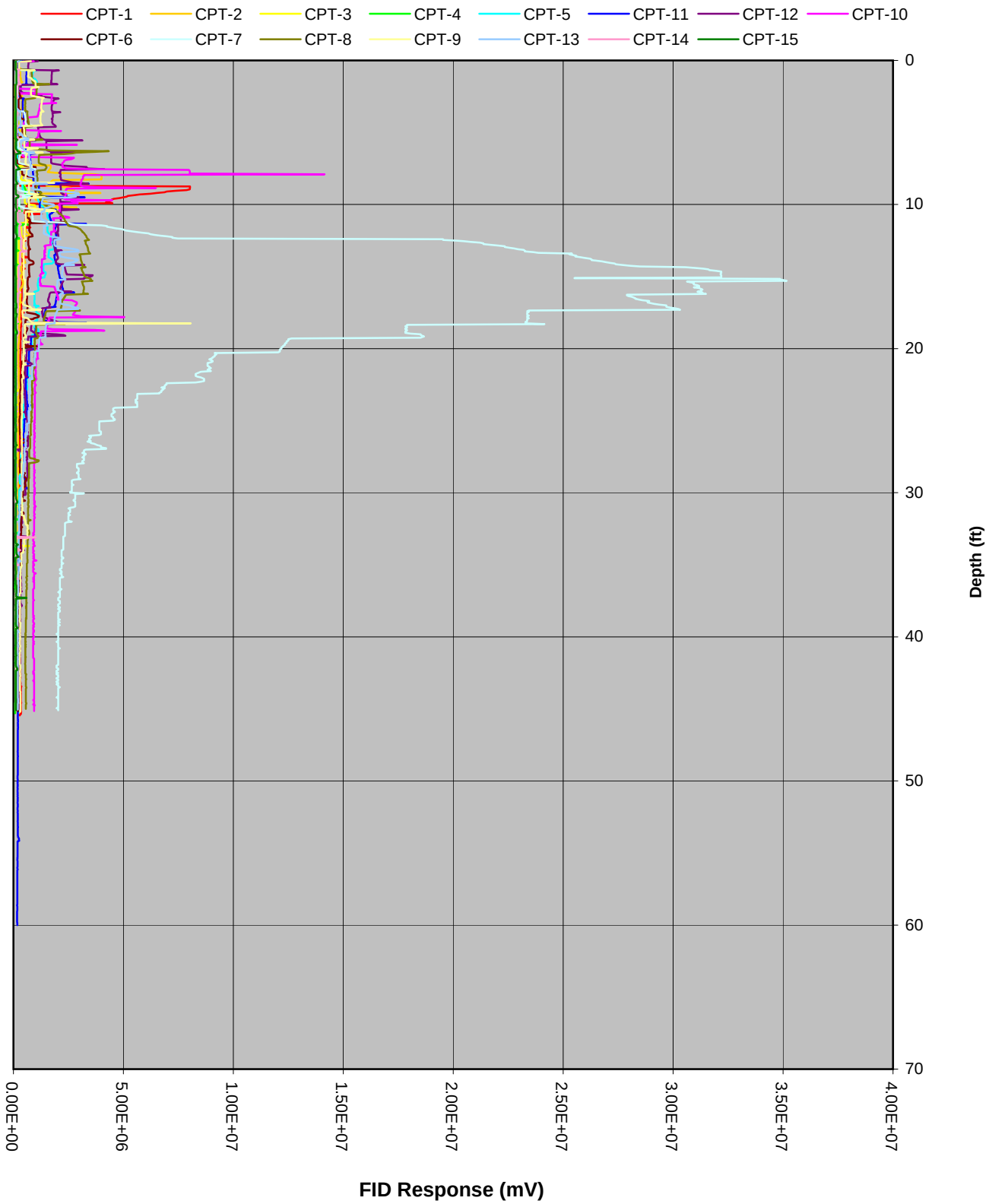
ECD Consolidation



PID Consolidation



FID Consolidation



APPENDIX G

SOIL AND GROUNDWATER ANALYTICAL LABORATORY REPORT

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
5900 Hollis St, Suite A		Date Received: 08/19/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 08/25/09
	Client P.O.:	Date Completed: 08/25/09

WorkOrder: 0908486

September 25, 2009

Dear Mark:

Enclosed within are:

1) The results of the **6** analyzed samples from your project: **#521000; Nady,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0908486

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Mark Jonas Bill To: SAME

Company: CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

5900 HOLLIS STREET – SUITE A

EMERYVILLE, CA 94608 E-mail:

Tele: Fax:

Project #: 521000 Project Name: NADY

Project Location: 1137-1167 65th St. Oakland CA

Sampler Signature: Joel Ky

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015) w/silica gel	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: TPHmo (8015m) w/silica gel	TPH ss (8015m)	HVOC (8010) Target list 8260b	Comments
+2 SB-26-40-W		8/17/09	825	3	Glass	X					X	X			X	X														X	X	X	
+5 SB-26-24-W			840	3		X					X	X			X	X														X	X	X	
+1 SB-26-12-W			900	2		X					X	X			X																X	X	2 HCL VOA's
+5 SB-28-35-W			1250	3		X					X	X			X	X														X	X	X	
+0 SB-28-24-W			1310	3		X					X	X			X	X														X	X	X	
+2 CPT-11-W		8/18/09	1320	3	Glass	X					X	X			X	X														X	X	X	

Relinquished By:	Date:	Time:	Received By:
	8/17/09	1824	
	8/19/09	1:45	
	8/19/09	3:50	8/19/09 13:50

Remarks: "Run Fuel Fingerprint for TPH"

ICE / t: Yes
GOOD CONDITION ✓ APPROPRIATE CONTAINERS ✓
HEAD SPACE ABSENT ✓ PRESERVED IN LAB ✓
DECHLORINATED IN LAB ✓
PRESERVATION: VOAS | O & G | METALS | OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908486 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc:
PO:
ProjectNo: #521000; Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **08/19/2009**
Date Printed: **08/19/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908486-001	SB-26-40-W	Water	8/17/2009 8:25	☐	C	B	A									
0908486-002	SB-26-24-W	Water	8/17/2009 8:40	☐	C	B	A									
0908486-003	SB-26-12-W	Water	8/17/2009 9:00	☐	A	B										
0908486-004	SB-28-35-W	Water	8/17/2009 12:50	☐	C	B	A									
0908486-005	SB-28-24-W	Water	8/17/2009 13:10	☐	C	B	A									
0908486-006	CPF11-W	Water	8/18/2009 13:20	☐	C	B	A									

Test Legend:

1	8010BMS_W	2	G-MBTEX_W	3	TPH(DMO)WSG_W	4		5	
6		7		8		9		10	
11		12							

Prepared by: Samantha Arbuckle

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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"When Quality Counts"

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **8/19/2009 7:04:25 PM**

Project Name: **#521000; Nady**

Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0908486** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 6.2°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"
1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/22/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908486

Lab ID	0908486-001C	0908486-002C	0908486-003A	0908486-004C	Reporting Limit for DF =1	
Client ID	SB-26-40-W	SB-26-24-W	SB-26-12-W	SB-28-35-W		
Matrix	W	W	W	W	S	W
DF	1	1	1	1		
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND	ND	NA	0.5
Bromoform	ND	ND	ND	ND	NA	0.5
Bromomethane	ND	ND	ND	ND	NA	0.5
Carbon Tetrachloride	ND	ND	ND	ND	NA	0.5
Chlorobenzene	ND	ND	ND	ND	NA	0.5
Chloroethane	ND	ND	ND	ND	NA	0.5
Chloroform	ND	ND	ND	ND	NA	0.5
Chloromethane	ND	ND	ND	ND	NA	0.5
Dibromochloromethane	ND	ND	ND	ND	NA	0.5
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	NA	0.5
1,2-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,3-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
1,4-Dichlorobenzene	ND	ND	ND	ND	NA	0.5
Dichlorodifluoromethane	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethane	ND	ND	ND	ND	NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	NA	0.5
1,1-Dichloroethene	ND	ND	ND	ND	NA	0.5
cis-1,2-Dichloroethene	ND	ND	ND	ND	NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND	ND	NA	0.5
1,2-Dichloropropane	ND	ND	ND	ND	NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND	ND	NA	0.5
Freon 113	ND	ND	ND	ND	NA	10
Methylene chloride	ND	ND	ND	ND	NA	0.5
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	NA	0.5
Tetrachloroethene	ND	ND	ND	ND	NA	0.5
1,1,1-Trichloroethane	ND	ND	ND	ND	NA	0.5
1,1,2-Trichloroethane	ND	ND	ND	ND	NA	0.5
Trichloroethene	ND	ND	ND	ND	NA	0.5
Trichlorofluoromethane	ND	ND	ND	ND	NA	0.5
Vinyl Chloride	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS1:	104	103	101	100		
%SS2:	99	98	97	99		
%SS3:	81	82	78	76		
Comments	b1	b1	b1	b1		

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/22/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/22/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908486

Lab ID	0908486-005C	0908486-006C			Reporting Limit for DF =1	
Client ID	SB-28-24-W	CPF11-W				
Matrix	W	W			S	W
DF	1	1				
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND	ND			NA	0.5
Bromoform	ND	ND			NA	0.5
Bromomethane	ND	ND			NA	0.5
Carbon Tetrachloride	ND	ND			NA	0.5
Chlorobenzene	ND	ND			NA	0.5
Chloroethane	ND	ND			NA	0.5
Chloroform	ND	ND			NA	0.5
Chloromethane	ND	ND			NA	0.5
Dibromochloromethane	ND	ND			NA	0.5
1,2-Dibromoethane (EDB)	ND	ND			NA	0.5
1,2-Dichlorobenzene	ND	ND			NA	0.5
1,3-Dichlorobenzene	ND	ND			NA	0.5
1,4-Dichlorobenzene	ND	ND			NA	0.5
Dichlorodifluoromethane	ND	ND			NA	0.5
1,1-Dichloroethane	ND	ND			NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND			NA	0.5
1,1-Dichloroethene	ND	ND			NA	0.5
cis-1,2-Dichloroethene	0.56	ND			NA	0.5
trans-1,2-Dichloroethene	ND	ND			NA	0.5
1,2-Dichloropropane	ND	ND			NA	0.5
cis-1,3-Dichloropropene	ND	ND			NA	0.5
trans-1,3-Dichloropropene	ND	ND			NA	0.5
Freon 113	ND	ND			NA	10
Methylene chloride	ND	ND			NA	0.5
1,1,1,2-Tetrachloroethane	ND	ND			NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND			NA	0.5
Tetrachloroethene	ND	ND			NA	0.5
1,1,1-Trichloroethane	ND	ND			NA	0.5
1,1,2-Trichloroethane	ND	ND			NA	0.5
Trichloroethene	5.0	ND			NA	0.5
Trichlorofluoromethane	ND	ND			NA	0.5
Vinyl Chloride	ND	ND			NA	0.5
Surrogate Recoveries (%)						
%SS1:	81	100				
%SS2:	100	98				
%SS3:	108	78				
Comments	b1	b1				

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/24/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908486

Lab ID	0908486-001B	0908486-002B	0908486-003B	0908486-004B	Reporting Limit for DF =1	
Client ID	SB-26-40-W	SB-26-24-W	SB-26-12-W	SB-28-35-W		
Matrix	W	W	W	W		
DF	1	1	1	1	S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	ND	ND	65	ND	NA	50
TPH(ss)	ND	ND	75	ND	NA	50
MTBE	ND	ND	ND	ND	NA	5.0
Benzene	ND	ND	ND	ND	NA	0.5
Toluene	ND	ND	ND	ND	NA	0.5
Ethylbenzene	ND	ND	ND	ND	NA	0.5
Xylenes	ND	ND	ND	ND	NA	0.5
Surrogate Recoveries (%)						
%SS:	96	96	91	98		
Comments	b1	b1	d7,b1	b1		

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/24/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908486

Lab ID	0908486-005B	0908486-006B			Reporting Limit for DF =1	
Client ID	SB-28-24-W	CPF11-W				
Matrix	W	W				
DF	1	1			S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	530	ND			NA	50
TPH(ss)	760	ND			NA	50
MTBE	ND	ND			NA	5.0
Benzene	ND	ND			NA	0.5
Toluene	ND	ND			NA	0.5
Ethylbenzene	ND	ND			NA	0.5
Xylenes	ND	ND			NA	0.5
Surrogate Recoveries (%)						
%SS:	108	97				
Comments	d5,b1	b1				

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/24/09

Fuel FingerPrint *

Extraction method SW5030B Analytical methods SW8021B/8015Bm Work Order: 0908486

Lab ID	Client ID	Matrix	Fuel Fingerprint
0908486-001B	SB-26-40-W	W	No Detectable Pattern.
0908486-002B	SB-26-24-W	W	No Detectable Pattern.
0908486-003B	SB-26-12-W	W	Due to the low TPH concentration observed in this sample, a definitive hydrocarbon determination is not possible. This sample appears to have a significant hydrocarbon pattern between C9 and C12 that resembles aged gasoline or stoddard solvent. Chromatograms enclosed.
0908486-004B	SB-28-35-W	W	No Detectable Pattern.
0908486-005B	SB-28-24-W	W	This sample has a significant hydrocarbon pattern between C9 and C12 that resembles stoddard solvent. Chromatograms enclosed.

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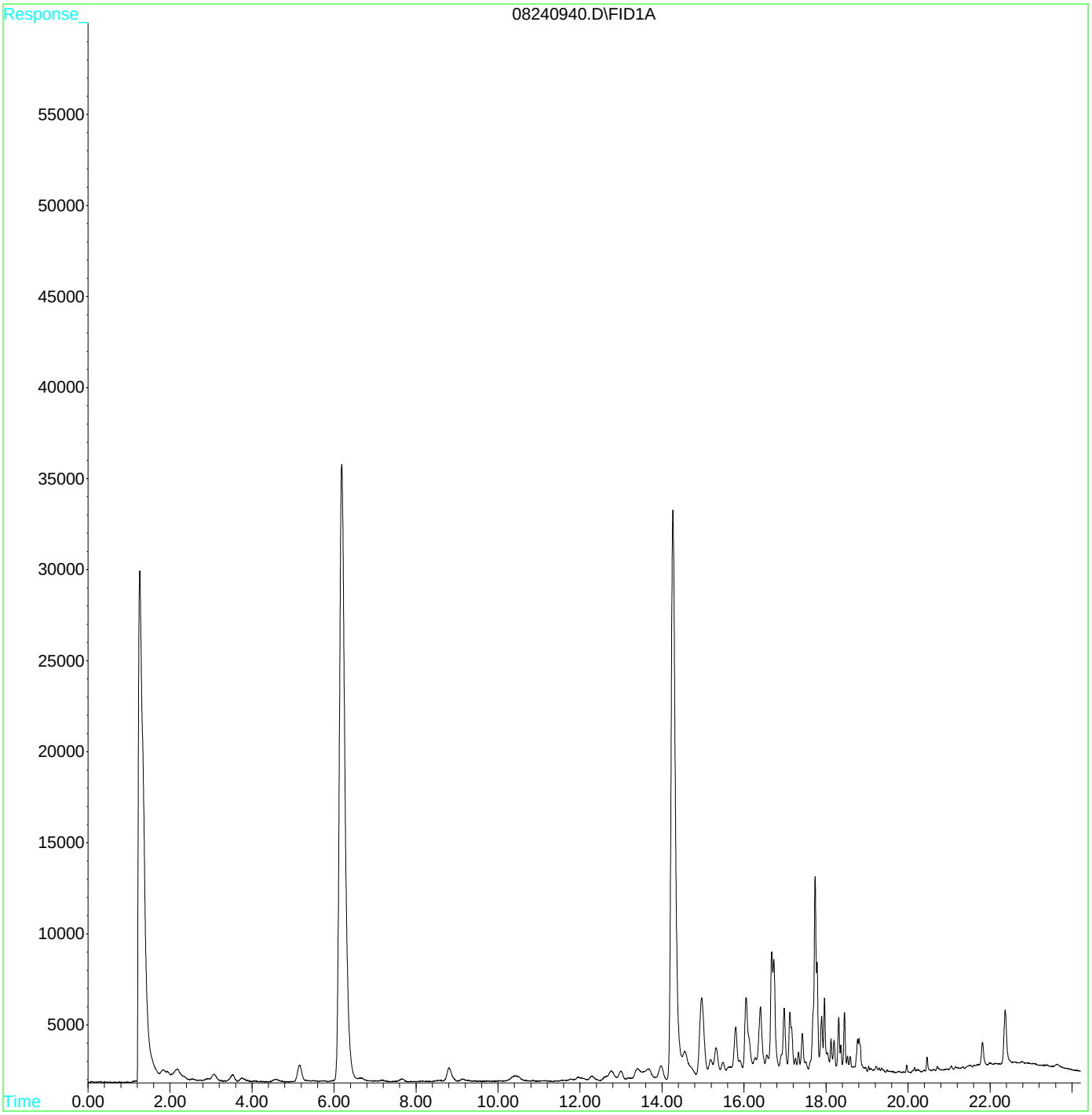
Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/20/09-08/24/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09-08/24/09

Fuel FingerPrint *

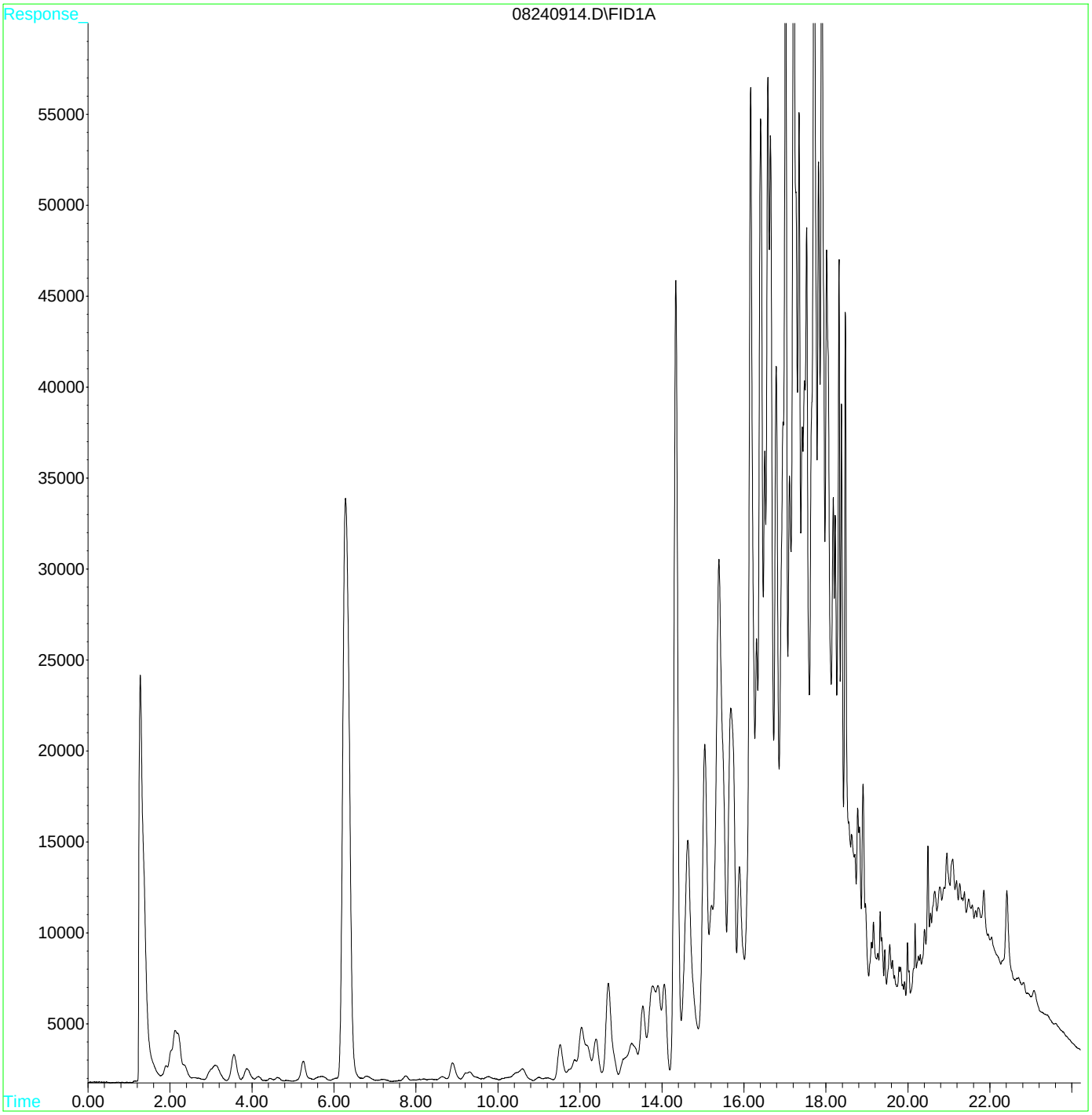
Extraction method SW5030B Analytical methods SW8021B/8015Bm Work Order: 0908486

Lab ID	Client ID	Matrix	Fuel Fingerprint
0908486-006B	CPF11-W	W	No Detectable Pattern.

File : D:\HPCHEM\GC7\DATA\08240940.D
Operator :
Acquired : 25 Aug 2009 5:36 am using AcqMethod GC7L.M
Instrument : GC-7
Sample Name: 0908486-003B W RR
Misc Info : G-MBTEX_W
Vial Number: 40



File : D:\HPCHEM\GC7\DATA\08240914.D
Operator :
Acquired : 24 Aug 2009 4:42 pm using AcqMethod GC7L.M
Instrument : GC-7
Sample Name: 0908486-005B W rr
Misc Info : G-MBTEX_W
Vial Number: 14



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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/17/09-08/18/09
		Date Received: 08/19/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/19/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/22/09-08/23/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0908486

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908486-001A	SB-26-40-W	W	ND	ND	1	94	,b1
0908486-002A	SB-26-24-W	W	ND	ND	1	92	,b1
0908486-004A	SB-28-35-W	W	ND	ND	1	94	,b1
0908486-005A	SB-28-24-W	W	ND	ND	1	93	,b1
0908486-006A	CPF11-W	W	ND	ND	1	94	,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45280 WorkOrder 0908486

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0908477-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	10	111	110	1.01	101	107	5.66	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	10	114	113	0.951	104	109	4.14	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	10	104	103	1.36	105	109	4.42	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	10	107	105	2.01	107	111	3.75	70 - 130	30	70 - 130	30
Trichloroethene	ND	10	126	125	0.888	112	115	2.41	70 - 130	30	70 - 130	30
%SS1:	94	25	93	92	0.587	79	78	0.748	70 - 130	30	70 - 130	30
%SS2:	109	25	106	105	0.869	100	101	0.906	70 - 130	30	70 - 130	30
%SS3:	97	2.5	95	97	2.74	108	111	2.57	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45280 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908486-001C	08/17/09 8:25 AM	08/20/09	08/20/09 12:27 PM	0908486-002C	08/17/09 8:40 AM	08/20/09	08/20/09 1:10 PM
0908486-003A	08/17/09 9:00 AM	08/20/09	08/20/09 1:54 PM	0908486-004C	08/17/09 12:50 PM	08/20/09	08/20/09 2:39 PM
0908486-005C	08/17/09 1:10 PM	08/22/09	08/22/09 3:40 AM	0908486-006C	08/18/09 1:20 PM	08/20/09	08/20/09 4:05 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45279 WorkOrder 0908486

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908486-001B**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	115	99.7	14.2	101	120	18.0	70 - 130	20	70 - 130	20
MTBE	ND	10	111	120	7.63	114	112	1.46	70 - 130	20	70 - 130	20
Benzene	ND	10	104	109	4.33	105	101	3.71	70 - 130	20	70 - 130	20
Toluene	ND	10	92.5	98.3	6.04	94.4	91.4	3.22	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	93.4	98.2	4.99	94.1	92.6	1.57	70 - 130	20	70 - 130	20
Xylenes	ND	30	106	112	5.83	107	105	1.84	70 - 130	20	70 - 130	20
%SS:	96	10	99	101	1.97	100	99	0.929	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45279 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908486-001B	08/17/09 8:25 AM	08/20/09	08/20/09 8:50 PM	0908486-002B	08/17/09 8:40 AM	08/21/09	08/21/09 9:50 PM
0908486-003B	08/17/09 9:00 AM	08/21/09	08/21/09 7:17 PM	0908486-004B	08/17/09 12:50 PM	08/21/09	08/21/09 7:48 PM
0908486-005B	08/17/09 1:10 PM	08/24/09	08/24/09 4:42 PM	0908486-006B	08/18/09 1:20 PM	08/21/09	08/21/09 9:19 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45212 WorkOrder 0908486

EPA Method SW8015B **Extraction SW3510C/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.5	95.6	0.892	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	103	104	0.154	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45212 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908486-001A	08/17/09 8:25 AM	08/19/09	08/22/09 11:33 PM	0908486-002A	08/17/09 8:40 AM	08/19/09	08/23/09 12:42 AM
0908486-004A	08/17/09 12:50 PM	08/19/09	08/22/09 10:25 PM	0908486-005A	08/17/09 1:10 PM	08/19/09	08/22/09 9:15 PM
0908486-006A	08/18/09 1:20 PM	08/19/09	08/22/09 11:33 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
5900 Hollis St, Suite A		Date Received: 08/17/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 08/24/09
	Client P.O.:	Date Completed: 08/24/09

WorkOrder: 0908404

August 24, 2009

Dear Mark:

Enclosed within are:

1) The results of the **10** analyzed samples from your project: **#521000; Nady,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0908404

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☑ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Mark Jonas Bill To: SAME

Company: CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

5900 HOLLIS STREET – SUITE A

EMERYVILLE, CA 94608 E-mail:

Tele: Fax:

Project #: 521000 Project Name: NASA

Project Location: 1157-1167 65th St. Oakland CA

Sampler Signature: JoCB

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other
SB-27-20		8/12	832	1	Glass		X				X			
SB-27-24			845	1			X				X			
SB-26-10			1320	1			X				X			
SB-26-16			1440	1			X				X			
MW-3B-5		8/10	1108	1			X				X			
MW-3C-10		8/13	956	1			X				X			
MW-3C-15			1020	1			X				X			
MW-7C-7		8/14	905	1			X				X			
MW-7C-8.5			907	1			X				X			
MW-7C-10			915	1			X				X			

Analysis Request

BTEX & TPH as Gas (602/8020 + 8015) MTBE	TPH as Diesel (8015) w/ silica gel	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI
X	X													
X	X													
X	X													
X	X													
X	X													
X	X													
X	X													
X	X													
X	X													
X	X													

Other

TPH ss (8015m)	TPH mo (8015m) w silica gel	HVOC (8010) Target List	fuel fingerprint added 5/Mark per email
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X
X	X	X	X

Comments

Relinquished By:	Date:	Time:	Received By:
JoCB	8/14/09	1745	
	8/17/09	300	MC Vall

Remarks: ICE / T 44c

GOOD CONDITION ✓ APPROPRIATE ✓

HEAD SPACE ABSENT ____ CONTAINERS ____

DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

PRESERVATION VOAS | O & G | METALS | OTHER

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908404 **ClientCode: CETE**

☐ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc:
PO:
ProjectNo: #521000; Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **08/17/2009**
Date Printed: **08/18/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908404-001	SB-27-20	Soil	8/12/2009 8:32	☐	A	A	A									
0908404-002	SB-27-24	Soil	8/12/2009 8:45	☐	A	A	A									
0908404-003	SB-26-10	Soil	8/12/2009 13:20	☐	A	A	A									
0908404-004	SB-26-16	Soil	8/12/2009 14:40	☐	A	A	A									
0908404-005	MW-3B-5	Soil	8/10/2009 11:08	☐	A	A	A									
0908404-006	MW-3C-10	Soil	8/13/2009 9:56	☐	A	A	A									
0908404-007	MW-3C-15	Soil	8/13/2009 10:20	☐	A	A	A									
0908404-008	MW-7C-7	Soil	8/14/2009 9:05	☐	A	A	A									
0908404-009	MW-7C-8.5	Soil	8/14/2009 9:07	☐	A	A	A									
0908404-010	MW-7C-10	Soil	8/14/2009 9:15	☐	A	A	A									

Test Legend:

1	8010BMS_S	2	G-MBTEX_S	3	TPH(DMO)WSG_S	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001B, 002B, 003B, 004B, 005B, 006B, 007B, 008B, 009B, 010B contain testgroup.

Prepared by: Melissa Valles

Comments: Tph (FF) added 8/18/09 per email

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **8/17/2009 4:35:03 PM**

Project Name: **#521000; Nady**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0908404** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

McCampbell Analytical, Inc.
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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/18/09-08/19/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908404

Lab ID	0908404-001A	0908404-002A	0908404-003A	0908404-004A	Reporting Limit for DF =1	
Client ID	SB-27-20	SB-27-24	SB-26-10	SB-26-16		
Matrix	S	S	S	S	S	W
DF	1	1	4	1		
Compound	**Concentration**				mg/kg	µg/L
Bromodichloromethane	ND	ND	ND<0.020	ND	0.005	NA
Bromoform	ND	ND	ND<0.020	ND	0.005	NA
Bromomethane	ND	ND	ND<0.020	ND	0.005	NA
Carbon Tetrachloride	ND	ND	ND<0.020	ND	0.005	NA
Chlorobenzene	ND	ND	ND<0.020	ND	0.005	NA
Chloroethane	ND	ND	ND<0.020	ND	0.005	NA
Chloroform	ND	ND	ND<0.020	ND	0.005	NA
Chloromethane	ND	ND	ND<0.020	ND	0.005	NA
Dibromochloromethane	ND	ND	ND<0.020	ND	0.005	NA
1,2-Dibromoethane (EDB)	ND	ND	ND<0.016	ND	0.004	NA
1,2-Dichlorobenzene	ND	ND	ND<0.020	ND	0.005	NA
1,3-Dichlorobenzene	ND	ND	ND<0.020	ND	0.005	NA
1,4-Dichlorobenzene	ND	ND	ND<0.020	ND	0.005	NA
Dichlorodifluoromethane	ND	ND	ND<0.020	ND	0.005	NA
1,1-Dichloroethane	ND	ND	ND<0.020	ND	0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND<0.016	ND	0.004	NA
1,1-Dichloroethene	ND	ND	ND<0.020	ND	0.005	NA
cis-1,2-Dichloroethene	ND	ND	ND<0.020	ND	0.005	NA
trans-1,2-Dichloroethene	ND	ND	ND<0.020	ND	0.005	NA
1,2-Dichloropropane	ND	ND	ND<0.020	ND	0.005	NA
cis-1,3-Dichloropropene	ND	ND	ND<0.020	ND	0.005	NA
trans-1,3-Dichloropropene	ND	ND	ND<0.020	ND	0.005	NA
Freon 113	ND	ND	ND<0.40	ND	0.1	NA
Methylene chloride	ND	ND	ND<0.020	ND	0.005	NA
1,1,1,2-Tetrachloroethane	ND	ND	ND<0.020	ND	0.005	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND<0.020	ND	0.005	NA
Tetrachloroethene	ND	ND	ND<0.020	ND	0.005	NA
1,1,1-Trichloroethane	ND	ND	ND<0.020	ND	0.005	NA
1,1,2-Trichloroethane	ND	ND	ND<0.020	ND	0.005	NA
Trichloroethene	ND	ND	ND<0.020	ND	0.005	NA
Trichlorofluoromethane	ND	ND	ND<0.020	ND	0.005	NA
Vinyl Chloride	ND	ND	ND<0.020	ND	0.005	NA
Surrogate Recoveries (%)						
%SS1:	90	100	98	100		
%SS2:	103	103	95	99		
%SS3:	101	82	117	100		
Comments			a3			

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/18/09-08/19/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908404

Lab ID	0908404-005A	0908404-006A	0908404-007A	0908404-008A	Reporting Limit for DF =1	
Client ID	MW-3B-5	MW-3C-10	MW-3C-15	MW-7C-7		
Matrix	S	S	S	S	S	W
DF	1	1	1	1		
Compound	**Concentration**				mg/kg	µg/L
Bromodichloromethane	ND	ND	ND	ND	0.005	NA
Bromoform	ND	ND	ND	ND	0.005	NA
Bromomethane	ND	ND	ND	ND	0.005	NA
Carbon Tetrachloride	ND	ND	ND	ND	0.005	NA
Chlorobenzene	ND	ND	ND	ND	0.005	NA
Chloroethane	ND	ND	ND	ND	0.005	NA
Chloroform	ND	ND	ND	ND	0.005	NA
Chloromethane	ND	ND	ND	ND	0.005	NA
Dibromochloromethane	ND	ND	ND	ND	0.005	NA
1,2-Dibromoethane (EDB)	ND	ND	ND	ND	0.004	NA
1,2-Dichlorobenzene	ND	ND	ND	ND	0.005	NA
1,3-Dichlorobenzene	ND	ND	ND	ND	0.005	NA
1,4-Dichlorobenzene	ND	ND	ND	ND	0.005	NA
Dichlorodifluoromethane	ND	ND	ND	ND	0.005	NA
1,1-Dichloroethane	ND	ND	ND	ND	0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND	ND	0.004	NA
1,1-Dichloroethene	ND	ND	ND	ND	0.005	NA
cis-1,2-Dichloroethene	ND	ND	ND	ND	0.005	NA
trans-1,2-Dichloroethene	ND	ND	ND	ND	0.005	NA
1,2-Dichloropropane	ND	ND	ND	ND	0.005	NA
cis-1,3-Dichloropropene	ND	ND	ND	ND	0.005	NA
trans-1,3-Dichloropropene	ND	ND	ND	ND	0.005	NA
Freon 113	ND	ND	ND	ND	0.1	NA
Methylene chloride	ND	ND	ND	ND	0.005	NA
1,1,1,2-Tetrachloroethane	ND	ND	ND	ND	0.005	NA
1,1,2,2-Tetrachloroethane	ND	ND	ND	ND	0.005	NA
Tetrachloroethene	ND	ND	ND	ND	0.005	NA
1,1,1-Trichloroethane	ND	ND	ND	ND	0.005	NA
1,1,2-Trichloroethane	ND	ND	ND	ND	0.005	NA
Trichloroethene	ND	ND	ND	ND	0.005	NA
Trichlorofluoromethane	ND	ND	ND	ND	0.005	NA
Vinyl Chloride	ND	ND	ND	ND	0.005	NA
Surrogate Recoveries (%)						
%SS1:	103	104	98	86		
%SS2:	102	101	97	101		
%SS3:	93	84	97	96		
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/18/09-08/19/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908404

Lab ID	0908404-009A	0908404-010A			Reporting Limit for DF =1	
Client ID	MW-7C-8.5	MW-7C-10				
Matrix	S	S			S	W
DF	1	1				
Compound	**Concentration**				mg/kg	µg/L
Bromodichloromethane	ND	ND			0.005	NA
Bromoform	ND	ND			0.005	NA
Bromomethane	ND	ND			0.005	NA
Carbon Tetrachloride	ND	ND			0.005	NA
Chlorobenzene	ND	ND			0.005	NA
Chloroethane	ND	ND			0.005	NA
Chloroform	ND	ND			0.005	NA
Chloromethane	ND	ND			0.005	NA
Dibromochloromethane	ND	ND			0.005	NA
1,2-Dibromoethane (EDB)	ND	ND			0.004	NA
1,2-Dichlorobenzene	ND	ND			0.005	NA
1,3-Dichlorobenzene	ND	ND			0.005	NA
1,4-Dichlorobenzene	ND	ND			0.005	NA
Dichlorodifluoromethane	ND	ND			0.005	NA
1,1-Dichloroethane	ND	ND			0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND	ND			0.004	NA
1,1-Dichloroethene	ND	ND			0.005	NA
cis-1,2-Dichloroethene	ND	ND			0.005	NA
trans-1,2-Dichloroethene	ND	ND			0.005	NA
1,2-Dichloropropane	ND	ND			0.005	NA
cis-1,3-Dichloropropene	ND	ND			0.005	NA
trans-1,3-Dichloropropene	ND	ND			0.005	NA
Freon 113	ND	ND			0.1	NA
Methylene chloride	ND	ND			0.005	NA
1,1,1,2-Tetrachloroethane	ND	ND			0.005	NA
1,1,2,2-Tetrachloroethane	ND	ND			0.005	NA
Tetrachloroethene	ND	ND			0.005	NA
1,1,1-Trichloroethane	ND	ND			0.005	NA
1,1,2-Trichloroethane	ND	ND			0.005	NA
Trichloroethene	ND	ND			0.005	NA
Trichlorofluoromethane	ND	ND			0.005	NA
Vinyl Chloride	ND	ND			0.005	NA
Surrogate Recoveries (%)						
%SS1:	86	95				
%SS2:	105	98				
%SS3:	104	119				
Comments						

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

a3) sample diluted due to high organic content.

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09-08/21/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908404

Lab ID	0908404-001A	0908404-002A	0908404-003A	0908404-004A	Reporting Limit for DF =1	
Client ID	SB-27-20	SB-27-24	SB-26-10	SB-26-16		
Matrix	S	S	S	S		
DF	1	1	50	1	S	W
Compound	**Concentration**				mg/Kg	ug/L
TPH(g)	ND	ND	220	ND	1.0	NA
TPH(ss)	ND	ND	360	1.4	1.0	NA
MTBE	ND	ND	ND<2.5	ND	0.05	NA
Benzene	ND	ND	ND<0.25	ND	0.005	NA
Toluene	ND	ND	ND<0.25	ND	0.005	NA
Ethylbenzene	ND	ND	ND<0.25	ND	0.005	NA
Xylenes	ND	ND	ND<0.25	ND	0.005	NA
Surrogate Recoveries (%)						
%SS:	88	84	103	82		
Comments			d5			

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d9) no recognizable pattern

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09-08/21/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908404

Lab ID	0908404-005A	0908404-006A	0908404-007A	0908404-008A	Reporting Limit for DF =1	
Client ID	MW-3B-5	MW-3C-10	MW-3C-15	MW-7C-7		
Matrix	S	S	S	S		
DF	1	1	1	33	S	W
Compound	**Concentration**				mg/Kg	ug/L
TPH(g)	ND	ND	ND	200	1.0	NA
TPH(ss)	ND	ND	ND	360	1.0	NA
MTBE	ND	ND	ND	ND<1.7	0.05	NA
Benzene	ND	ND	ND	ND<0.17	0.005	NA
Toluene	ND	ND	ND	ND<0.17	0.005	NA
Ethylbenzene	ND	ND	ND	ND<0.17	0.005	NA
Xylenes	ND	ND	ND	ND<0.17	0.005	NA
Surrogate Recoveries (%)						
%SS:	91	78	79	88		
Comments				d5		

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d9) no recognizable pattern

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09-08/21/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908404

					Reporting Limit for DF =1	
Lab ID	0908404-009A	0908404-010A				
Client ID	MW-7C-8.5	MW-7C-10				
Matrix	S	S				
DF	20	20			S	W
Compound	**Concentration**				mg/Kg	ug/L
TPH(g)	330	74			1.0	NA
TPH(ss)	590	140			1.0	NA
MTBE	ND<1.0	ND<1.0			0.05	NA
Benzene	ND<0.10	ND<0.10			0.005	NA
Toluene	ND<0.10	ND<0.10			0.005	NA
Ethylbenzene	ND<0.10	ND<0.10			0.005	NA
Xylenes	1.0	ND<0.10			0.005	NA
Surrogate Recoveries (%)						
%SS:	86	88				
Comments	d5,d9	d5				

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)
d9) no recognizable pattern

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/19/09-08/22/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C/3630C Analytical methods: SW8015B Work Order: 0908404

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908404-001A	SB-27-20	S	ND	ND	1	96	
0908404-002A	SB-27-24	S	ND	ND	1	98	
0908404-003A	SB-26-10	S	78	ND	1	110	e11,e2
0908404-004A	SB-26-16	S	ND	ND	1	99	
0908404-005A	MW-3B-5	S	ND	ND	1	97	
0908404-006A	MW-3C-10	S	ND	ND	1	95	
0908404-007A	MW-3C-15	S	2.4	13	1	100	e7,e2
0908404-008A	MW-7C-7	S	22	ND	1	112	e11
0908404-009A	MW-7C-8.5	S	440	ND<50	10	107	e11
0908404-010A	MW-7C-10	S	25	ND	1	100	e11

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant
e11) stoddard solvent/mineral spirit (?)

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted:
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09-08/22/09

Fuel FingerPrint *

Extraction method SW3550C Analytical methods SW8015B Work Order: 0908404

Lab ID	Client ID	Matrix	Fuel Fingerprint
0908404-001B	SB-27-20	S	No Detectable Pattern.
0908404-002B	SB-27-24	S	No Detectable Pattern.
0908404-003B	SB-26-10	S	The hydrocarbon pattern for this sample falls within the stoddard solvent range (C9-C12). This sample also has a small pattern within the diesel ranges (C10-C23). Chromatograms enclosed.
0908404-004B	SB-26-16	S	No Detectable Pattern.
0908404-005B	MW-3B-5	S	No Detectable Pattern.

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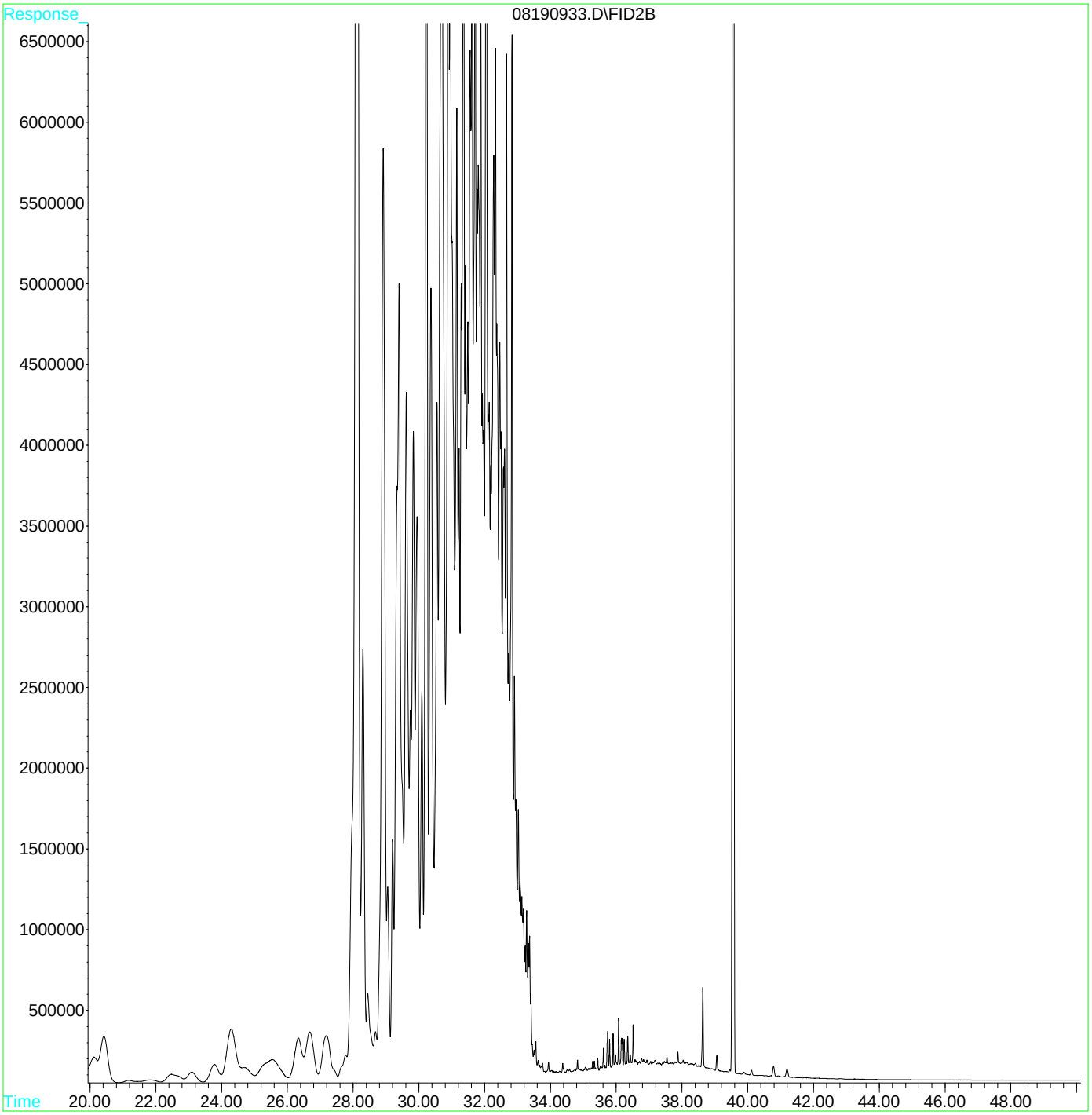
Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/10/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted:
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09-08/22/09

Fuel FingerPrint *

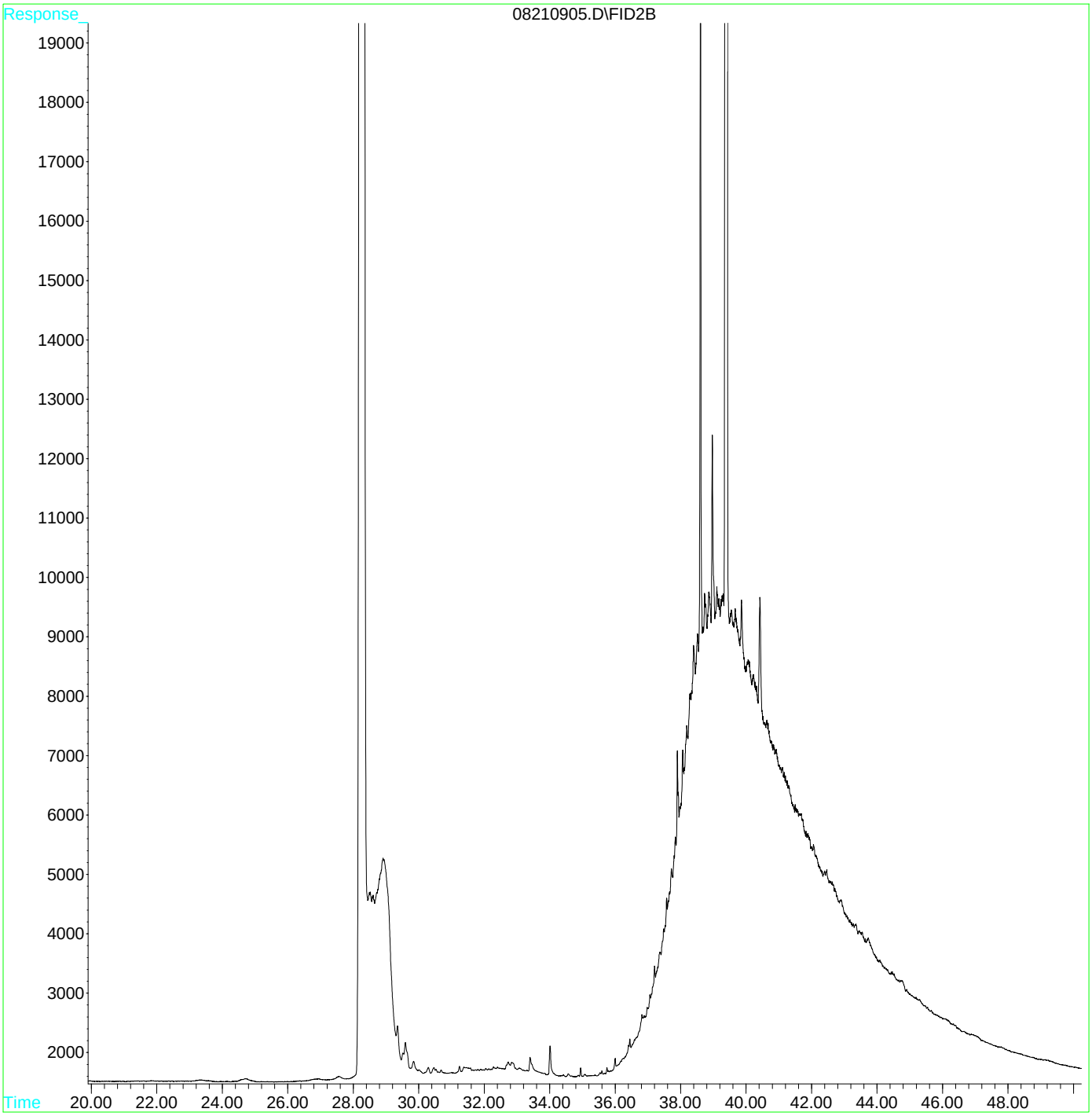
Extraction method SW3550C Analytical methods SW8015B Work Order: 0908404

Lab ID	Client ID	Matrix	Fuel Fingerprint
0908404-006B	MW-3C-10	S	No Detectable Pattern.
0908404-007B	MW-3C-15	S	This sample has a small pattern in diesel range between C10 and C23 and also has a significant hydrocarbon pattern between C18 and C36 that resembles motor oil, possibly cutting oil. Chromatograms enclosed.
0908404-008B	MW-7C-7	S	The hydrocarbon pattern for this sample falls within the stoddard solvent range (C9-C12). Chromatograms enclosed.
0908404-009B	MW-7C-8.5	S	The hydrocarbon pattern for this sample falls within the stoddard solvent range (C9-C12). Chromatograms enclosed.
0908404-010B	MW-7C-10	S	The hydrocarbon pattern for this sample falls within the stoddard solvent range (C9-C12). Chromatograms enclosed.

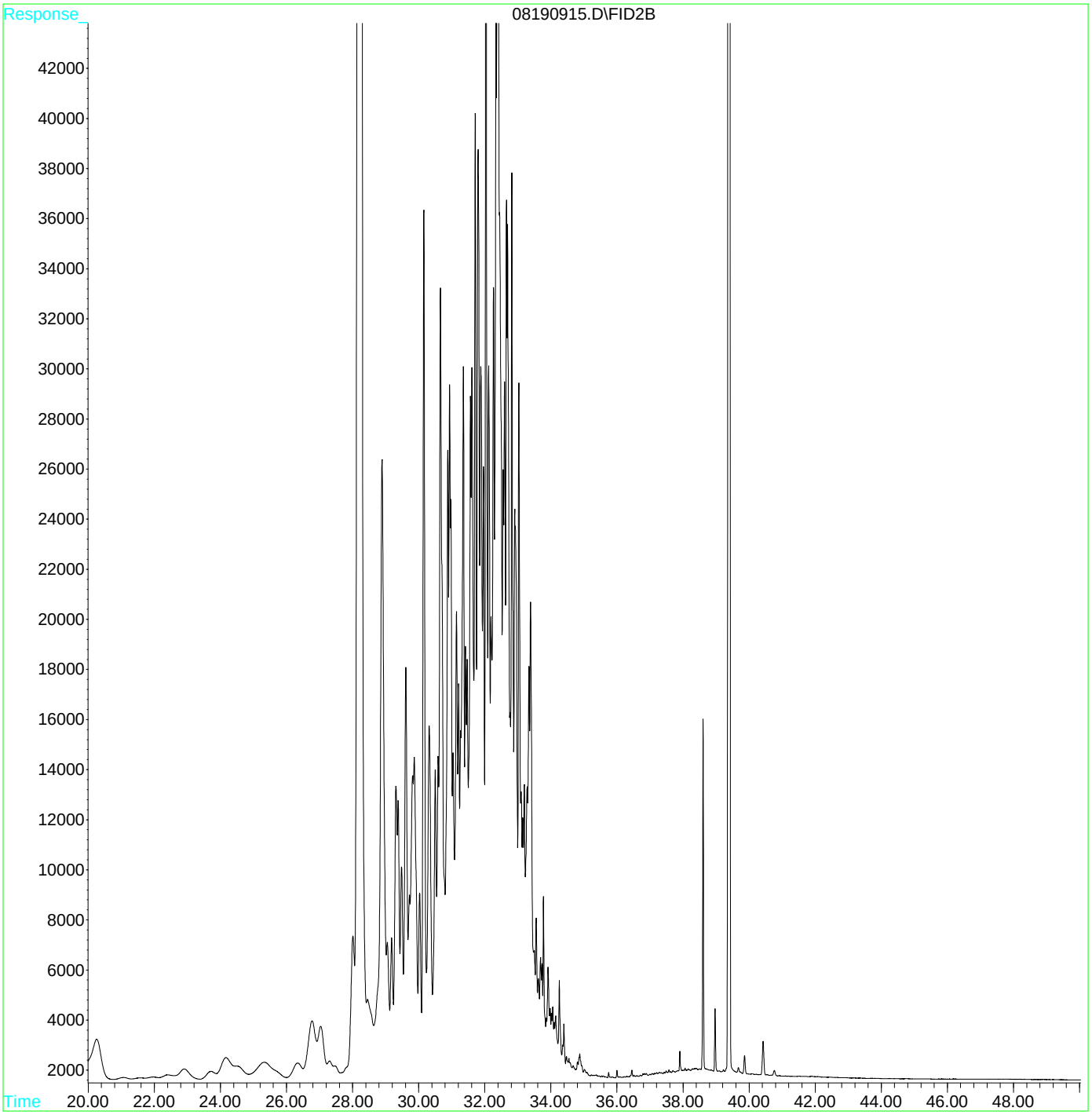
File : D:\HPCHEM\GC11\DATAB\08190933.D
Operator : Thu
Acquired : 20 Aug 2009 5:31 am using AcqMethod GC11AW.M
Instrument : GC-11
Sample Name: 0908404-003A S
Misc Info : TPH(DMO)WSG_S
Vial Number: 67



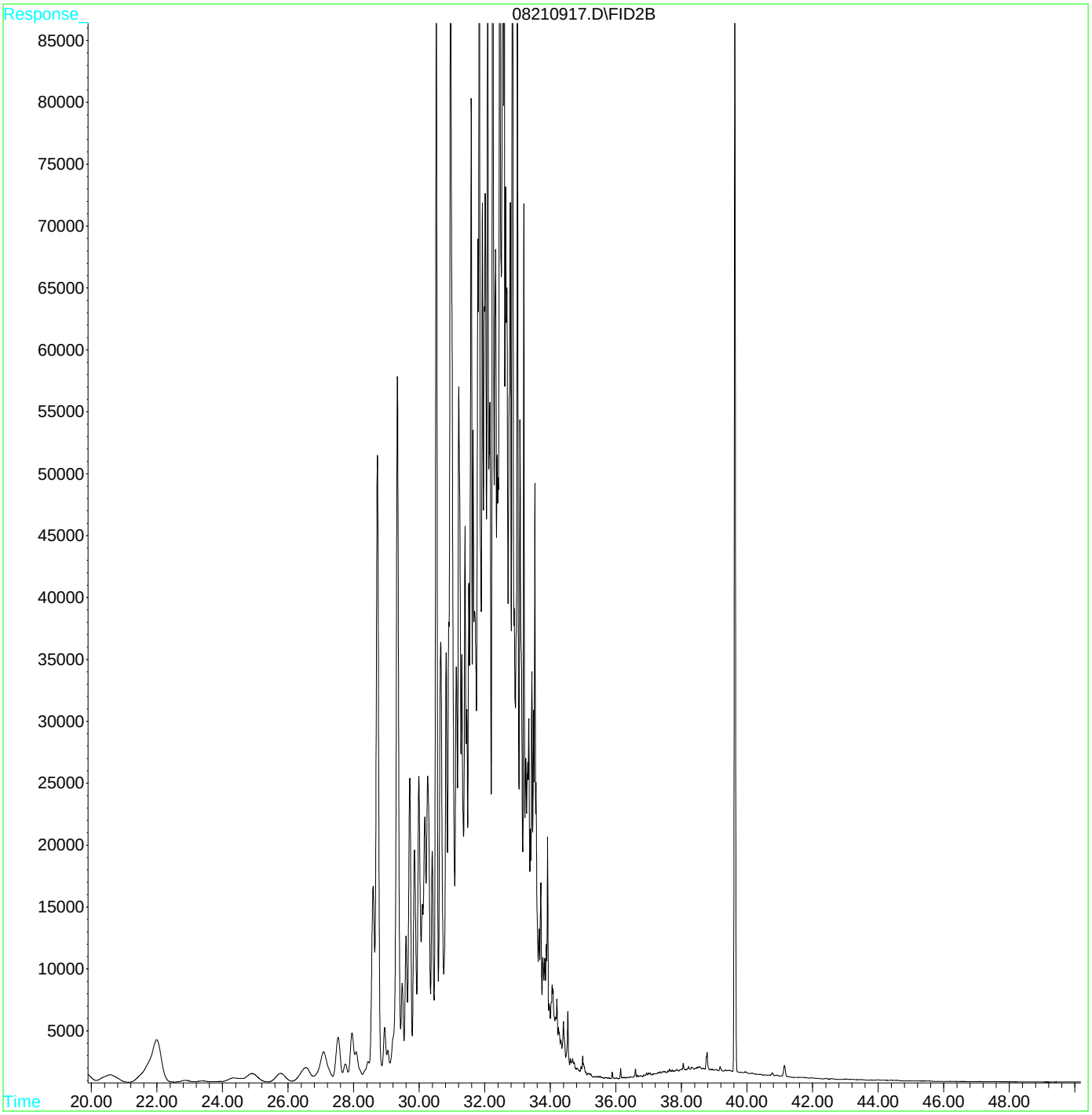
File : D:\HPCHEM\GC2\DATAB\08210905.D
Operator :
Acquired : 21 Aug 2009 6:23 pm using AcqMethod GC2AW.M
Instrument : GC-2
Sample Name: 0908404-007A S
Misc Info : TPH(DMO)WSG_S
Vial Number: 53



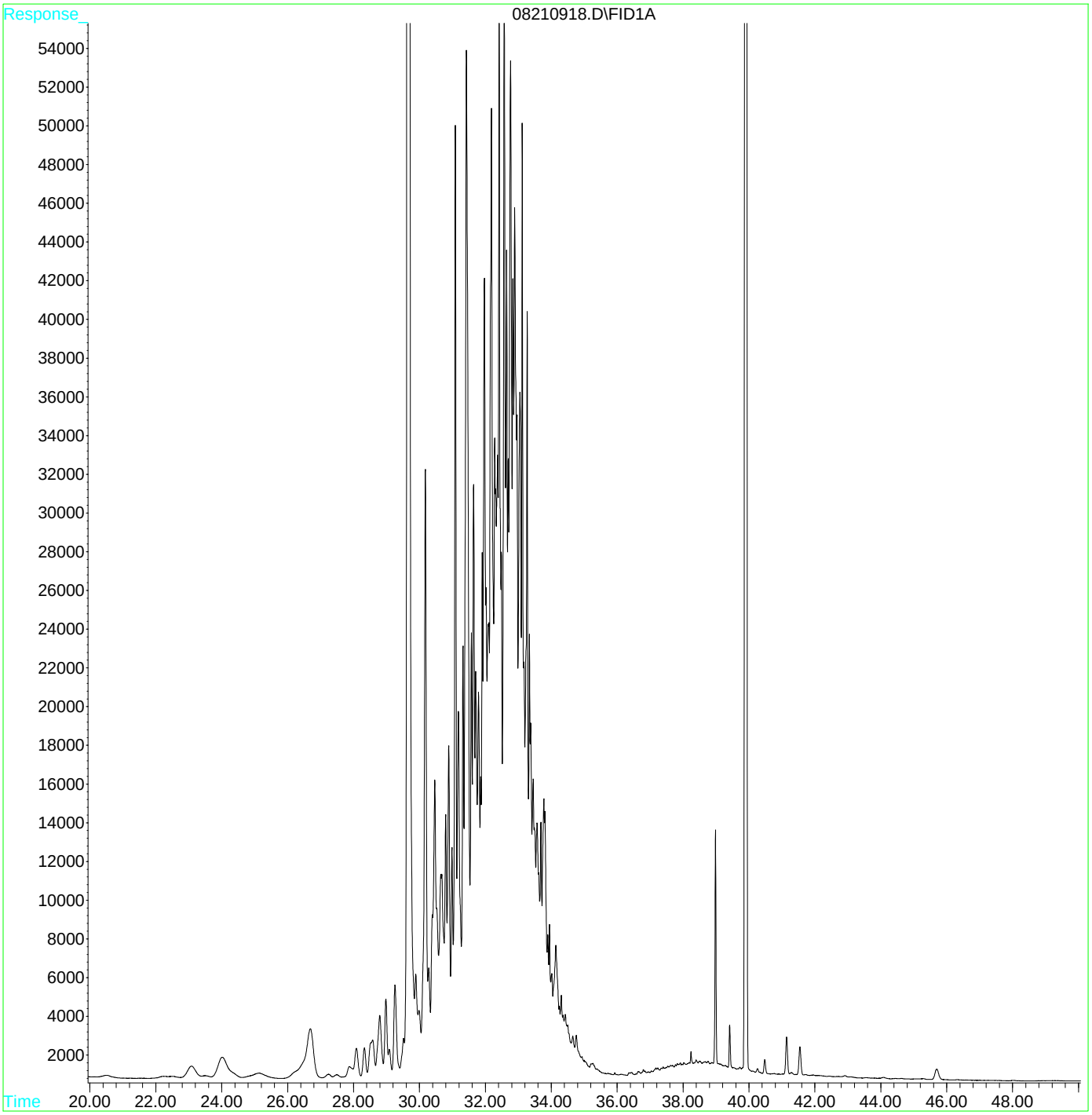
File : D:\HPCHEM\GC2\DATAB\08190915.D
Operator :
Acquired : 19 Aug 2009 9:15 pm using AcqMethod GC2AW.M
Instrument : GC-2
Sample Name: 0908404-008A S
Misc Info : TPH(DMO)WSG_S
Vial Number: 58



File : D:\HPCHEM\GC6\DATAB\08210917.D
Operator :
Acquired : 22 Aug 2009 12:07 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0908404-009A S RR
Misc Info : TPH(DMO)WSG_S
Vial Number: 59



File : D:\HPCHEM\GC6\DATAA\08210918.D
Operator :
Acquired : 22 Aug 2009 12:07 am using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0908404-010A S RE
Misc Info : TPH(DMO)WSG_S
Vial Number: 9



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Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45123 WorkOrder: 0908404

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0908281-002A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	108	108	0	98	103	4.94	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	102	103	0.879	92.9	93.5	0.726	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	92.2	93.4	1.23	84.1	84.8	0.754	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	119	115	3.69	108	111	2.66	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	125	125	0	116	117	0.848	60 - 130	30	60 - 130	30
%SS1:	94	0.12	89	89	0	91	89	2.19	70 - 130	30	70 - 130	30
%SS2:	108	0.12	110	111	1.27	109	111	1.29	70 - 130	30	70 - 130	30
%SS3:	98	0.012	104	109	5.35	103	101	1.97	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45123 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908404-001A	08/12/09 8:32 AM	08/17/09	08/18/09 7:36 PM	0908404-002A	08/12/09 8:45 AM	08/17/09	08/18/09 8:54 PM
0908404-003A	08/12/09 1:20 PM	08/17/09	08/19/09 5:03 PM	0908404-004A	08/12/09 2:40 PM	08/17/09	08/18/09 8:57 PM
0908404-005A	08/10/09 11:08 AM	08/17/09	08/18/09 7:28 PM	0908404-006A	08/13/09 9:56 AM	08/17/09	08/18/09 8:11 PM
0908404-007A	08/13/09 10:20 AM	08/17/09	08/18/09 7:32 PM	0908404-008A	08/14/09 9:05 AM	08/17/09	08/18/09 6:54 PM
0908404-009A	08/14/09 9:07 AM	08/17/09	08/18/09 8:19 PM	0908404-010A	08/14/09 9:15 AM	08/17/09	08/18/09 6:50 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45170 WorkOrder 0908404

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908347-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	104	108	3.92	105	109	3.33	70 - 130	20	70 - 130	20
MTBE	ND	0.10	93.9	104	10.6	110	110	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	121	119	1.68	122	116	5.12	70 - 130	20	70 - 130	20
Toluene	ND	0.10	115	111	3.68	116	108	6.61	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	116	114	1.14	117	111	5.47	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	110	111	0.897	113	107	5.38	70 - 130	20	70 - 130	20
%SS:	98	0.10	119	117	1.49	104	109	4.77	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45170 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908404-009A	08/14/09 9:07 AM	08/17/09	08/19/09 2:10 PM	0908404-010A	08/14/09 9:15 AM	08/17/09	08/21/09 12:31 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45207 WorkOrder 0908404

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908386-022A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	107	115	7.13	117	122	3.92	70 - 130	20	70 - 130	20
MTBE	ND	0.10	91.2	108	16.5	93.9	95.3	1.45	70 - 130	20	70 - 130	20
Benzene	ND	0.10	92.3	101	9.49	99.5	97.8	1.72	70 - 130	20	70 - 130	20
Toluene	ND	0.10	90.4	99.1	9.09	97.4	94.6	2.89	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	89.2	97.6	8.94	95.7	93.8	1.97	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	90.8	98.6	8.28	97.4	95.3	2.17	70 - 130	20	70 - 130	20
%SS:	89	0.10	87	93	6.44	89	85	5.48	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45207 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908404-001A	08/12/09 8:32 AM	08/17/09	08/19/09 8:59 AM	0908404-002A	08/12/09 8:45 AM	08/17/09	08/21/09 6:55 PM
0908404-003A	08/12/09 1:20 PM	08/17/09	08/19/09 10:25 PM	0908404-004A	08/12/09 2:40 PM	08/17/09	08/21/09 9:00 PM
0908404-005A	08/10/09 11:08 AM	08/17/09	08/19/09 1:06 PM	0908404-006A	08/13/09 9:56 AM	08/17/09	08/19/09 1:09 PM
0908404-007A	08/13/09 10:20 AM	08/17/09	08/19/09 1:39 PM	0908404-008A	08/14/09 9:05 AM	08/17/09	08/20/09 6:52 PM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45229 WorkOrder 0908404

EPA Method SW8015B **Extraction SW3550C/3630C** **Spiked Sample ID: 0908404-010A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	25	20	85.5	82.8	1.31	93.5	93	0.588	70 - 130	30	70 - 130	30
%SS:	100	50	103	102	0.390	100	99	0.830	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45229 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908404-001A	08/12/09 8:32 AM	08/17/09	08/20/09 3:14 AM	0908404-002A	08/12/09 8:45 AM	08/17/09	08/20/09 4:22 AM
0908404-003A	08/12/09 1:20 PM	08/17/09	08/20/09 5:31 AM	0908404-004A	08/12/09 2:40 PM	08/17/09	08/20/09 7:47 AM
0908404-005A	08/10/09 11:08 AM	08/17/09	08/20/09 8:56 AM	0908404-006A	08/13/09 9:56 AM	08/17/09	08/20/09 10:53 PM
0908404-007A	08/13/09 10:20 AM	08/17/09	08/21/09 6:23 PM	0908404-008A	08/14/09 9:05 AM	08/17/09	08/19/09 9:15 PM
0908404-009A	08/14/09 9:07 AM	08/17/09	08/22/09 12:07 AM	0908404-010A	08/14/09 9:15 AM	08/17/09	08/22/09 12:07 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; NADY	Date Sampled: 08/12/09-08/14/09
5900 Hollis St, Suite A		Date Received: 08/17/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 08/24/09
	Client P.O.:	Date Completed: 08/24/09

WorkOrder: 0908408

August 24, 2009

Dear Mark:

Enclosed within are:

1) The results of the **3** analyzed samples from your project: **#521000; NADY,**
2) A QC report for the above samples,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0908408

CHAIN OF CUSTODY RECORD

McCAMPBELL ANALYTICAL INC.
110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

TURN AROUND TIME: ☐ RUSH ☐ 24 HOUR ☐ 48 HOUR ☒ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Mark Jonas Bill To: SAME

Company: CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

5900 HOLLIS STREET – SUITE A

EMERYVILLE, CA 94608 E-mail:

Tele: Fax:

Project #: 521000 Project Name: NADY

Project Location: 1137-1167 65th St. Oakland CA

Sampler Signature: Jack Bra

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX: Water	Soil	Air	Sludge	Other	METHOD PRESERVED: Ice	HCl	HNO_3	Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015)/ MTBE	TPH as Diesel (8015) w/ silica gel	Total Petroleum Oil & Grease (5520 E&F/B&F)	Total Petroleum Hydrocarbons (418.1)	EPA 601 / 8010	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8080	EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260	EPA 625 / 8270	PAH's / PNA's by EPA 625 / 8270 / 8310	CAM-17 Metals	LUFT 5 Metals	Lead (7240/7421/239.2/6010)	RCI	Other: TPH ss (8015 m)	TPH mo (8015 m) w/ silica gel	HVOC (8010) Target List	Fuel Fingerprint added 8/18/09 PA	Comments
+5 SB-27-24-W		8/12/09	1000	3	glass	X					X	X			X	X														X	X	X	X	
+5 SB-27-40-W		"	1350	3	"	X					X	X			X	X														X	X	X	X	
+5 SB-26-40-W		8/14/09	1530	2	g	X					X	X			X															X		X	X	

Relinquished By:	Date:	Time:	Received By:
Jack Bra	8/14/09	1745	Hang Hale
Hang Hale	8/17/09	1:20	
	8/17/09	300	8/17/09 1300

Remarks:

ICE / t° YES 8°C
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ✓ CONTAINERS ✓
DECHLORINATED IN LAB ✓ PRESERVED IN LAB ✓
PRESERVATION VOAS | O & G | METALS | OTHER |

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908408 **ClientCode: CETE**

☒ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc:
PO:
ProjectNo: #521000; NADY

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **08/17/2009**
Date Printed: **08/19/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908408-001	SB-27-24-W	Water	8/12/2009 10:00	☐	C	B	A									
0908408-002	SB-27-40-W	Water	8/12/2009 13:50	☐	C	B	A									
0908408-003	SB-26-40-W	Water	8/14/2009 15:30	☐	B	A										

Test Legend:

1	8010BMS_W	2	G-MBTEX_W	3	TPH(DMO)WSG_W	4		5	
6		7		8		9		10	
11		12							

The following SampIDs: 001D, 002D, 003C contain testgroup.

Prepared by: Samantha Arbuckle

Comments: Tph (ff) added 8/18/09 per email

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Telephone: 877-252-9262 Fax: 925-252-9269

Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **8/17/2009 5:20:04 PM**

Project Name: **#521000; NADY**

Checklist completed and reviewed by: Samantha Arbuckle

WorkOrder N°: **0908408** Matrix Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 2.8°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☑	No ☐	No VOA vials submitted ☐
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Conestoga-Rovers & Associates	Client Project ID: #521000; NADY	Date Sampled: 08/12/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/18/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/18/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908408

Lab ID	0908408-001C	0908408-002C	0908408-003B		Reporting Limit for DF =1	
Client ID	SB-27-24-W	SB-27-40-W	SB-26-40-W			
Matrix	W	W	W		S	W
DF	1	1	1			
Compound	**Concentration**				µg/kg	µg/L
Bromodichloromethane	ND	ND	ND		NA	0.5
Bromoform	ND	ND	ND		NA	0.5
Bromomethane	ND	ND	ND		NA	0.5
Carbon Tetrachloride	0.59	0.56	ND		NA	0.5
Chlorobenzene	ND	ND	ND		NA	0.5
Chloroethane	ND	ND	ND		NA	0.5
Chloroform	ND	ND	ND		NA	0.5
Chloromethane	ND	ND	ND		NA	0.5
Dibromochloromethane	ND	ND	ND		NA	0.5
1,2-Dibromoethane (EDB)	ND	ND	ND		NA	0.5
1,2-Dichlorobenzene	ND	ND	ND		NA	0.5
1,3-Dichlorobenzene	ND	ND	ND		NA	0.5
1,4-Dichlorobenzene	ND	ND	ND		NA	0.5
Dichlorodifluoromethane	ND	ND	ND		NA	0.5
1,1-Dichloroethane	0.97	ND	ND		NA	0.5
1,2-Dichloroethane (1,2-DCA)	ND	ND	ND		NA	0.5
1,1-Dichloroethene	ND	ND	ND		NA	0.5
cis-1,2-Dichloroethene	ND	ND	ND		NA	0.5
trans-1,2-Dichloroethene	ND	ND	ND		NA	0.5
1,2-Dichloropropane	ND	ND	ND		NA	0.5
cis-1,3-Dichloropropene	ND	ND	ND		NA	0.5
trans-1,3-Dichloropropene	ND	ND	ND		NA	0.5
Freon 113	ND	ND	ND		NA	10
Methylene chloride	ND	ND	ND		NA	0.5
1,1,1,2-Tetrachloroethane	ND	ND	ND		NA	0.5
1,1,2,2-Tetrachloroethane	ND	ND	ND		NA	0.5
Tetrachloroethene	ND	ND	ND		NA	0.5
1,1,1-Trichloroethane	ND	ND	ND		NA	0.5
1,1,2-Trichloroethane	ND	ND	ND		NA	0.5
Trichloroethene	7.5	ND	ND		NA	0.5
Trichlorofluoromethane	ND	ND	ND		NA	0.5
Vinyl Chloride	ND	ND	ND		NA	0.5
Surrogate Recoveries (%)						
%SS1:	93	93	93			
%SS2:	105	102	102			
%SS3:	99	100	105			
Comments	b1	b1	b1			

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Web: www.mccampbell.com E-mail: main@mccampbell.com
Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; NADY	Date Sampled: 08/12/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/19/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/19/09

Gasoline (C6-C12) & Stoddard Solvent (C9-C12) Range Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908408

					Reporting Limit for DF =1	
Lab ID	0908408-001B	0908408-002B	0908408-003A			
Client ID	SB-27-24-W	SB-27-40-W	SB-26-40-W			
Matrix	W	W	W			
DF	1	1	1		S	W
Compound	**Concentration**				ug/kg	µg/L
TPH(g)	ND	ND	ND		NA	50
TPH(ss)	ND	ND	ND		NA	50
MTBE	ND	ND	ND		NA	5.0
Benzene	ND	ND	ND		NA	0.5
Toluene	ND	2.6	ND		NA	0.5
Ethylbenzene	ND	ND	ND		NA	0.5
Xylenes	ND	ND	ND		NA	0.5
Surrogate Recoveries (%)						
%SS:	112	101	95			
Comments	b1	b1	b1			

* water and vapor samples are reported in ug/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; NADY	Date Sampled: 08/12/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/20/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3510C/3630C Analytical methods: SW8015B Work Order: 0908408

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908408-001A	SB-27-24-W	W	ND	ND	1	106	b1
0908408-002A	SB-27-40-W	W	57	250	1	106	e7,e2,b1

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	250	µg/L
	S	NA	NA	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

#) cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract; &) low or no surrogate due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

b1) aqueous sample that contains greater than ~1 vol. % sediment
e2) diesel range compounds are significant; no recognizable pattern
e7) oil range compounds are significant

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; NADY	Date Sampled: 08/12/09-08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/19/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09

Fuel FingerPrint *

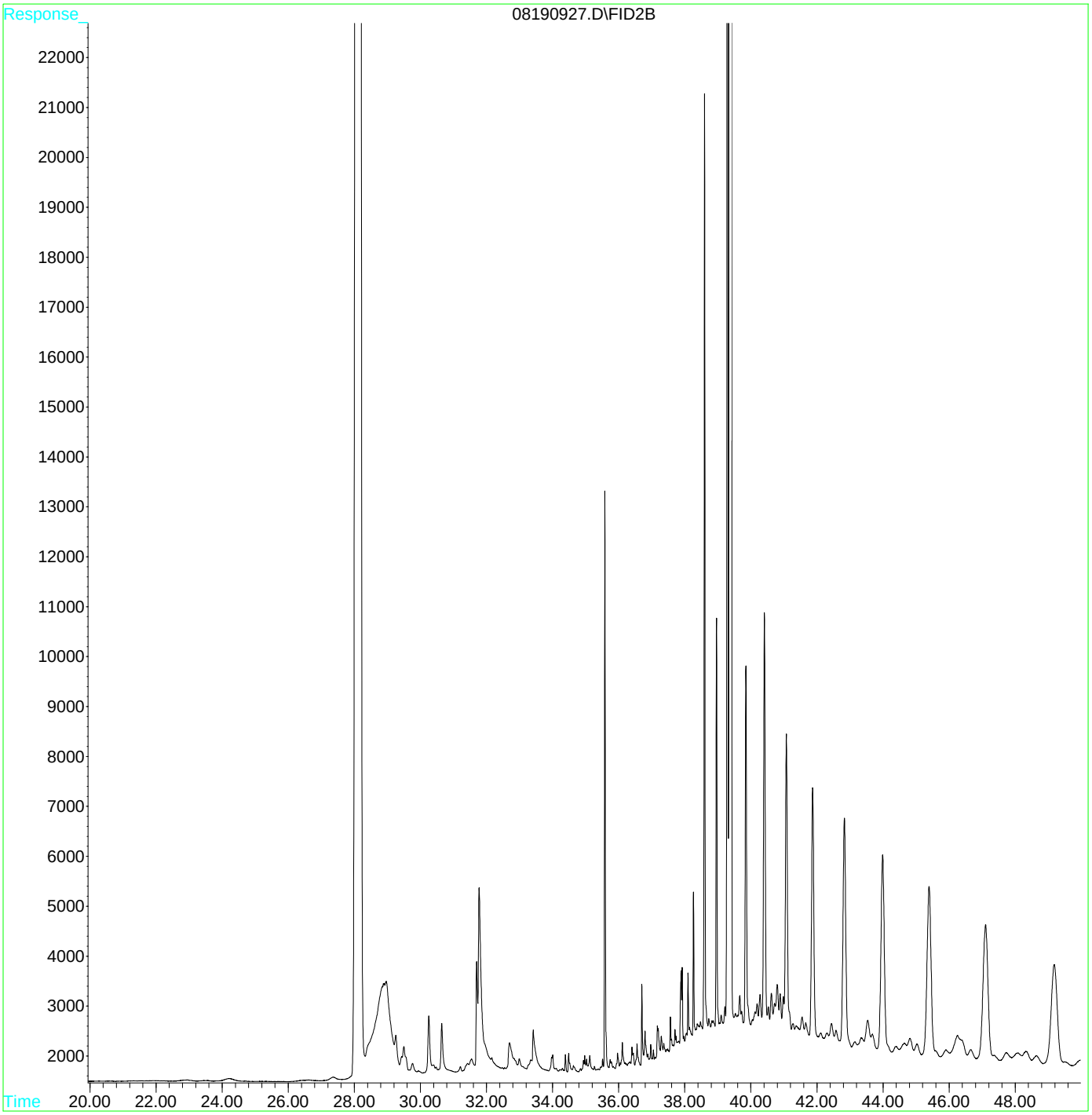
Extraction method SW3510C Analytical methods SW8015B Work Order: 0908408

Lab ID	Client ID	Matrix	Fuel Fingerprint
0908408-001D	SB-27-24-W	W	No Detectable Pattern.
0908408-002D	SB-27-40-W	W	The hydrocarbon pattern for this sample falls within the diesel range (C10-C23) and oil range (C18-C36).This sample has some alkane peaks in the oil range. The pattern is too small to determine what kind of fuel it is. Chromatograms enclosed.
0908408-003C	SB-26-40-W	W	This sample has a significant hydrocarbon pattern between C18 and C36 and also has a small pattern in diesel range between C10 and C23. Chromatograms enclosed.

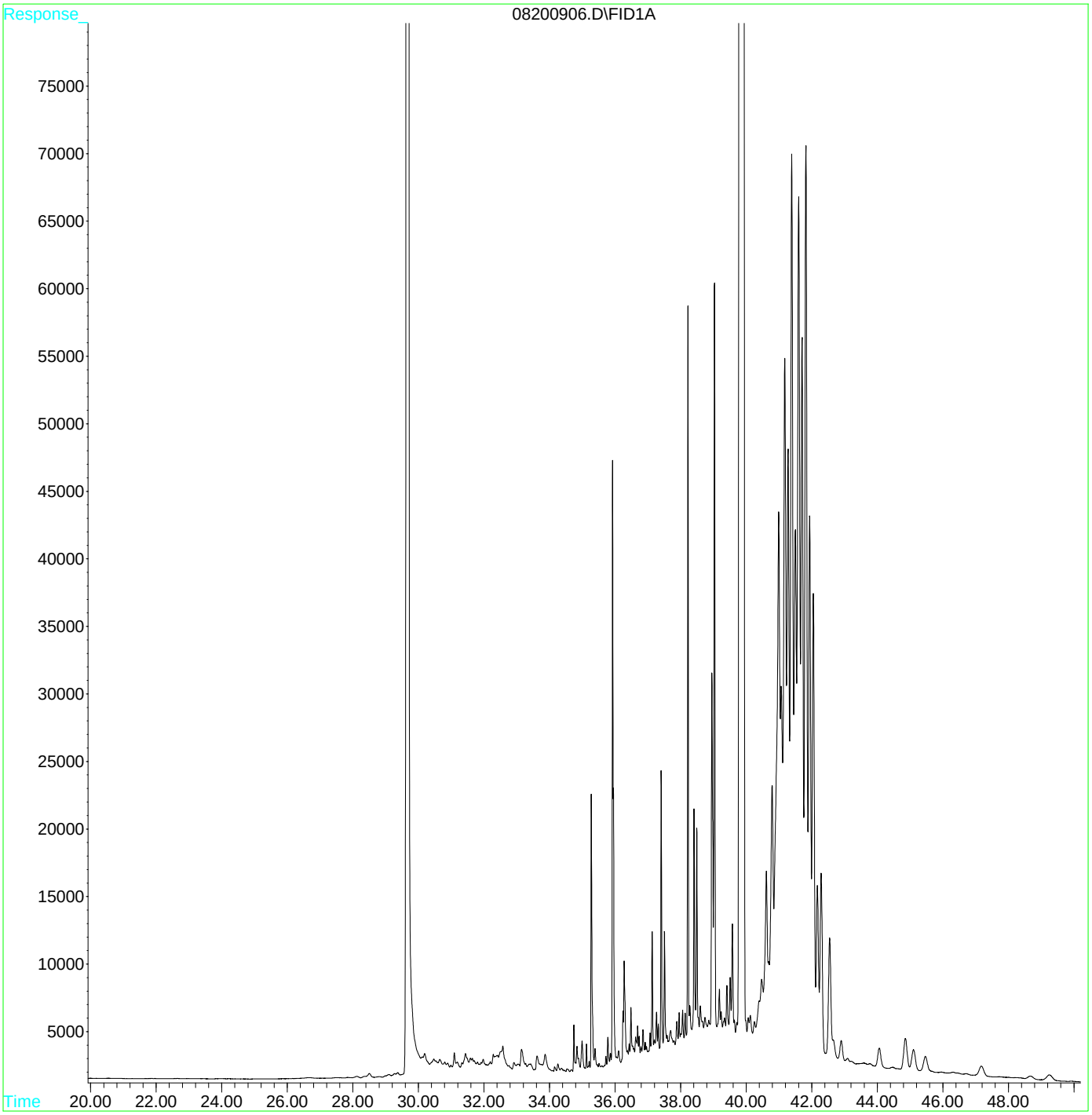
DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

File : D:\HPCHEM\GC2\DATAB\08190927.D
Operator :
Acquired : 20 Aug 2009 4:03 am using AcqMethod GC2AW.M
Instrument : GC-2
Sample Name: 0908408-002D W
Misc Info : TPH(FF)WSG_W
Vial Number: 64



File : D:\HPCHEM\GC6\DATAA\08200906.D
Operator :
Acquired : 20 Aug 2009 4:22 pm using AcqMethod GC6AW.M
Instrument : GC-6
Sample Name: 0908408-003C W
Misc Info : TPH(FF)_W
Vial Number: 3



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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45206 WorkOrder 0908408

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0908383-009A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND<1.0	10	96.9	97.1	0.201	112	109	3.12	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND<1.0	10	98	97.4	0.625	113	111	2.28	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND<1.0	10	102	103	0.946	105	102	3.25	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND<1.0	10	107	106	0.389	108	107	0.652	70 - 130	30	70 - 130	30
Trichloroethene	57	10	100	101	0.170	129	126	2.67	70 - 130	30	70 - 130	30
%SS1:	103	25	74	74	0	91	93	1.56	70 - 130	30	70 - 130	30
%SS2:	98	25	93	93	0	104	105	0.689	70 - 130	30	70 - 130	30
%SS3:	73	2.5	97	95	2.37	93	91	1.79	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45206 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908408-001C	08/12/09 10:00 AM	08/18/09	08/18/09 4:47 PM	0908408-002C	08/12/09 1:50 PM	08/18/09	08/18/09 5:29 PM
0908408-003B	08/14/09 3:30 PM	08/18/09	08/18/09 6:12 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45213 WorkOrder 0908408

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908386-017A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	60	121	129	5.81	120	120	0	70 - 130	20	70 - 130	20
MTBE	ND	10	119	120	0.452	112	108	3.58	70 - 130	20	70 - 130	20
Benzene	ND	10	108	107	1.33	104	108	3.27	70 - 130	20	70 - 130	20
Toluene	ND	10	97.2	104	6.58	93.3	96.8	3.70	70 - 130	20	70 - 130	20
Ethylbenzene	ND	10	98.8	100	1.35	94.6	98.1	3.61	70 - 130	20	70 - 130	20
Xylenes	ND	30	113	111	1.57	108	112	3.58	70 - 130	20	70 - 130	20
%SS:	102	10	98	102	4.11	97	97	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45213 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908408-001B	08/12/09 10:00 AM	08/19/09	08/19/09 9:50 PM	0908408-002B	08/12/09 1:50 PM	08/19/09	08/19/09 10:49 PM
0908408-003A	08/14/09 3:30 PM	08/19/09	08/19/09 7:51 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content, or inconsistency in sample containers.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Water QC Matrix: Water BatchID: 45212 WorkOrder 0908408

EPA Method SW8015B **Extraction SW3510C/3630C** **Spiked Sample ID: N/A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1000	N/A	N/A	N/A	96.5	95.6	0.892	N/A	N/A	70 - 130	30
%SS:	N/A	2500	N/A	N/A	N/A	103	104	0.154	N/A	N/A	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45212 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908408-001A	08/12/09 10:00 AM	08/17/09	08/20/09 12:40 AM	0908408-002A	08/12/09 1:50 PM	08/17/09	08/20/09 4:03 AM

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/14/09
5900 Hollis St, Suite A		Date Received: 08/17/09
Emeryville, CA 94608	Client Contact: Mark Jonas	Date Reported: 08/24/09
	Client P.O.:	Date Completed: 08/21/09

WorkOrder: 0908405

August 24, 2009

Dear Mark:

Enclosed within are:

1) The results of the **1** analyzed sample from your project: **#521000; Nady,**
2) A QC report for the above sample,
3) A copy of the chain of custody, and
4) An invoice for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
Laboratory Manager
McCampbell Analytical, Inc.

0908405

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560
Telephone: (925) 798-1620 Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME: ❑ RUSH ❑ 24 HOUR ❑ 48 HOUR ☑ 5 DAY

EDF Required? ☐ Yes ☐ No

Report To: Mark Jones Bill To: SAME

Company: CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC.

5900 HOLLIS STREET – SUITE A

EMERYVILLE, CA 94608 E-mail:

Tele: Fax:

Project #: 521000 Project Name: NRDY

Project Location: 1137-1167 65th St. Oakland CA

Sampler Signature: Joel Ee

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING Date	SAMPLING Time	# Containers	Type Containers	MATRIX Water	MATRIX Soil	MATRIX Air	MATRIX Sludge	MATRIX Other	METHOD PRESERVED Ice	METHOD PRESERVED HCl	METHOD PRESERVED HNO_3	METHOD PRESERVED Other	Analysis Request: BTEX & TPH as Gas (602/8020 + 8015) MTBE	Analysis Request: TPH as Diesel (8015)	Analysis Request: Total Petroleum Oil & Grease (5520 E&F/B&F)	Analysis Request: Total Petroleum Hydrocarbons (418.1)	Analysis Request: EPA 601 / 8010	Analysis Request: BTEX ONLY (EPA 602 / 8020)	Analysis Request: EPA 608 / 8080	Analysis Request: EPA 608 / 8080 PCB's ONLY	Analysis Request: EPA 624 / 8240 / 8260	Analysis Request: EPA 625 / 8270	Analysis Request: PAH's / PNA's by EPA 625 / 8270 / 8310	Analysis Request: CAM-17 Metals	Analysis Request: LUFT 5 Metals	Analysis Request: Lead (7240/7421/239.2/6010)	Analysis Request: RCI	Other: TPH SS (8015 m)	Other: TPHMD (8015)	Other: HVOC (8010) Target List	Other: Total Lead	Comments
WASTE-S		8/14/09		1	S		X				X				X	X														X	X	X	X	3-1 Composite

Relinquished By:	Date:	Time:	Received By:
	8/17/09	1:20	
Relinquished By:	Date:	Time:	Received By:
	8/17/09	3:00	
Relinquished By:	Date:	Time:	Received By:

Remarks:

ICE / t° 4.4°c
GOOD CONDITION ✓ APPROPRIATE
HEAD SPACE ABSENT ____ CONTAINERS ✓
DECHLORINATED IN LAB ____ PRESERVED IN LAB ____

PRESERVATION	VOAS	O & G	METALS	OTHER

McCampbell Analytical, Inc.
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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0908405 **ClientCode: CETE**

☒ WaterTrax ☐ WriteOn ☐ EDF ☐ Excel ☐ Fax ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

Report to:
Mark Jonas
Conestoga-Rovers & Associates
5900 Hollis St, Suite A
Emeryville, CA 94608
(510) 420-0700 FAX (510) 420-9170

Email: mjonas@CRAworld.com, chee@crawor
cc:
PO:
ProjectNo: #521000; Nady

Bill to:
Accounts Payable
Conestoga-Rovers & Associates
5900 Hollis St, Ste. A
Emeryville, CA 94608

Requested TAT: 5 days

Date Received: **08/17/2009**
Date Printed: **08/17/2009**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
0908405-001	Waste-5	Soil	8/14/2009	☐	A	A	A	A								

Test Legend:

1	8010BMS_S	2	G-MBTEX_S	3	PB_S	4	TPH(DMO)WSG_S	5	
6		7		8		9		10	
11		12							

Prepared by: Melissa Valles

Comments:

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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Sample Receipt Checklist

Client Name: **Conestoga-Rovers & Associates**

Date and Time Received: **8/17/2009 5:04:10 PM**

Project Name: **#521000; Nady**

Checklist completed and reviewed by: Melissa Valles

WorkOrder N°: **0908405** Matrix Soil

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes ☑	No ☐
Chain of custody signed when relinquished and received?	Yes ☑	No ☐
Chain of custody agrees with sample labels?	Yes ☑	No ☐
Sample IDs noted by Client on COC?	Yes ☑	No ☐
Date and Time of collection noted by Client on COC?	Yes ☑	No ☐
Sampler's name noted on COC?	Yes ☑	No ☐

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	NA ☑
Shipping container/cooler in good condition?	Yes ☑	No ☐	
Samples in proper containers/bottles?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature	Cooler Temp: 4.4°C		NA ☐
Water - VOA vials have zero headspace / no bubbles?	Yes ☐	No ☐	No VOA vials submitted ☑
Sample labels checked for correct preservation?	Yes ☑	No ☐	
TTLC Metal - pH acceptable upon receipt (pH<2)?	Yes ☐	No ☐	NA ☑
Samples Received on Ice?	Yes ☑	No ☐	

(Ice Type: WET ICE)

** NOTE: If the "No" box is checked, see comments below.*

Client contacted: Date contacted: Contacted by:

Comments:

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Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/18/09

Halogenated Volatile Organics by P&T and GC-MS (8010 Basic Target List)*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0908405

					Reporting Limit for DF =1	
Lab ID	0908405-001A					
Client ID	Waste-5					
Matrix	S				S	W
DF	1					

Compound	Concentration				mg/kg	µg/L
Bromodichloromethane	ND				0.005	NA
Bromoform	ND				0.005	NA
Bromomethane	ND				0.005	NA
Carbon Tetrachloride	ND				0.005	NA
Chlorobenzene	ND				0.005	NA
Chloroethane	ND				0.005	NA
Chloroform	ND				0.005	NA
Chloromethane	ND				0.005	NA
Dibromochloromethane	ND				0.005	NA
1,2-Dibromoethane (EDB)	ND				0.004	NA
1,2-Dichlorobenzene	ND				0.005	NA
1,3-Dichlorobenzene	ND				0.005	NA
1,4-Dichlorobenzene	ND				0.005	NA
Dichlorodifluoromethane	ND				0.005	NA
1,1-Dichloroethane	ND				0.005	NA
1,2-Dichloroethane (1,2-DCA)	ND				0.004	NA
1,1-Dichloroethene	ND				0.005	NA
cis-1,2-Dichloroethene	ND				0.005	NA
trans-1,2-Dichloroethene	ND				0.005	NA
1,2-Dichloropropane	ND				0.005	NA
cis-1,3-Dichloropropene	ND				0.005	NA
trans-1,3-Dichloropropene	ND				0.005	NA
Freon 113	ND				0.1	NA
Methylene chloride	ND				0.005	NA
1,1,1,2-Tetrachloroethane	ND				0.005	NA
1,1,2,2-Tetrachloroethane	ND				0.005	NA
Tetrachloroethene	ND				0.005	NA
1,1,1-Trichloroethane	ND				0.005	NA
1,1,2-Trichloroethane	ND				0.005	NA
Trichloroethene	ND				0.005	NA
Trichlorofluoromethane	ND				0.005	NA
Vinyl Chloride	ND				0.005	NA

Surrogate Recoveries (%)					
%SS1:	86				
%SS2:	103				
%SS3:	77				
Comments					

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in µg/wipe.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or surrogate coelutes with another peak.

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed 08/20/09

Gasoline Range (C6-C12) and Stoddard Solvent Range (C9-C12) Volatile Hydrocarbons with BTEX and MTBE*

Extraction Method: SW5030B Analytical Method: SW8021B/8015Bm Work Order: 0908405

					Reporting Limit for DF =1	
Lab ID	0908405-001A					
Client ID	Waste-5					
Matrix	S					
DF	33				S	W
Compound	**Concentration**				mg/Kg	ug/L
TPH(g)	120				1.0	NA
TPH(ss)	240				1.0	NA
MTBE	ND<1.7				0.05	NA
Benzene	ND<0.17				0.005	NA
Toluene	ND<0.17				0.005	NA
Ethylbenzene	ND<0.17				0.005	NA
Xylenes	ND<0.17				0.005	NA
Surrogate Recoveries (%)						
%SS:	82					
Comments	d5					

* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts in mg/L.

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d5) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?)

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/18/09

Lead by ICP*

Extraction method: SW3050B Analytical methods: SW6010B Work Order: 0908405

Lab ID	Client ID	Matrix	Extraction Type	Lead	DF	% SS	Comments
0908405-001A	Waste-5	S	TOTAL	8.5	1	127	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TOTAL	NA	µg/L
	S	TOTAL	5.0	mg/Kg

*water samples are reported in µg/L, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

TOTAL = acid digestion.
WET = Waste Extraction Test (STLC).
DI WET = Waste Extraction Test using de-ionized water.

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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Telephone: 877-252-9262 Fax: 925-252-9269

Conestoga-Rovers & Associates	Client Project ID: #521000; Nady	Date Sampled: 08/14/09
		Date Received: 08/17/09
5900 Hollis St, Suite A	Client Contact: Mark Jonas	Date Extracted: 08/17/09
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 08/21/09

Total Extractable Petroleum Hydrocarbons with Silica Gel Clean-Up*

Extraction method: SW3550C/3630C Analytical methods: SW8015B Work Order: 0908405

Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
0908405-001A	Waste-5	S	ND	ND	1	95	

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	ug/L
	S	1.0	5.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

DHS ELAP Certification 1644

Angela Rydelius, Lab Manager

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QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45170 WorkOrder 0908405

EPA Method SW8021B/8015Bm **Extraction SW5030B** **Spiked Sample ID: 0908347-005A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)£	ND	0.60	104	108	3.92	105	109	3.33	70 - 130	20	70 - 130	20
MTBE	ND	0.10	93.9	104	10.6	110	110	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	121	119	1.68	122	116	5.12	70 - 130	20	70 - 130	20
Toluene	ND	0.10	115	111	3.68	116	108	6.61	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	116	114	1.14	117	111	5.47	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	110	111	0.897	113	107	5.38	70 - 130	20	70 - 130	20
%SS:	98	0.10	119	117	1.49	104	109	4.77	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45170 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908405-001A	08/14/09	08/17/09	08/20/09 6:17 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = matrix interference and/or analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45229 WorkOrder 0908405

EPA Method SW8015B **Extraction SW3550C/3630C** **Spiked Sample ID: 0908404-010A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	25	20	85.5	82.8	1.31	93.5	93	0.588	70 - 130	30	70 - 130	30
%SS:	100	50	103	102	0.390	100	99	0.830	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45229 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908405-001A	08/14/09	08/17/09	08/21/09 9:42 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

DHS ELAP Certification 1644

QA/QC Officer

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QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil QC Matrix: Soil BatchID: 45230 WorkOrder 0908405

EPA Method SW8260B **Extraction SW5030B** **Spiked Sample ID: 0908442-001A**

Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chlorobenzene	ND	0.050	97	97.4	0.334	97.9	98.6	0.764	60 - 130	30	60 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	89	89.2	0.209	88	86.6	1.52	60 - 130	30	60 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	92.6	92.1	0.544	95.5	94.4	1.19	60 - 130	30	60 - 130	30
1,1-Dichloroethene	ND	0.050	106	106	0	109	105	4.26	60 - 130	30	60 - 130	30
Trichloroethene	ND	0.050	112	111	0.393	116	112	3.81	60 - 130	30	60 - 130	30
%SS1:	97	0.12	72	73	1.22	71	71	0	70 - 130	30	70 - 130	30
%SS2:	112	0.12	97	97	0	98	98	0	70 - 130	30	70 - 130	30
%SS3:	88	0.012	103	103	0	105	106	0.747	70 - 130	30	70 - 130	30

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45230 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908405-001A	08/14/09	08/17/09	08/18/09 9:01 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and freon 113 may occasionally appear in the method blank at low levels.

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QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 0908405

EPA Method SW6010B	Extraction SW3050B	BatchID: 45226	Spiked Sample ID: 0908396-012A

Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)			
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Lead	13	50	79.8	87.2	6.72	10	110	112	1.83	75 - 125	20	80 - 120	20
%SS:	108	250	113	117	3.05	250	98	98	0	70 - 130	20	70 - 130	20

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
NONE

BATCH 45226 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
0908405-001A	08/14/09	08/17/09	08/18/09 2:18 PM				

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

APPENDIX H

SOIL GAS ANALYTICAL LABORATORY REPORT

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and International laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Mark Jonas

Collected by: (Print and Sign) Bryan Fong Bryan A Fong

Company Cambria - Rogers & Associates Email MJONAS@CRAworld.com

Address 5900 Hollis St, Suite A City Emeryville State CA Zip 94608

Phone 510-420-0700 Fax 510-420-9170

Project Info:
P.O. #
Project # 521000
Project Name John Nady

Turn Around Time:
☒ Normal
☐ Rush
___ specify

Circle Reporting Units:
ppbv ppmv
ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
01A	VW-9	G0125766	9-17-09	8:27	8:29	2min	150ml	TPHss (TO-17)
02A	VW-8	Mi130468		9:21	9:23	2min	150ml	
03A	VW-1	G0125216		10:40	10:42	2min	150ml	
04A	VW-3	Mi118375		11:52	11:55	2min	150ml	
05A	VW-4	Mi130235		12:38	12:40	2min	150ml	
06A	VW-2	G0125282		13:36	13:38	2min	150ml	
07A	VW-5	Mi113121		14:29	14:31	2min	150ml	
08A	VW-6	G0125215		16:00	16:02	2min	150ml	
09A	VW-7	G0125432		17:16	17:20	4 min	300ml	
10A	VW-7 - Duplicate	G0122826		17:16	17:20	4 min	300ml	

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Bryan A Fong	9/21/09 / 15:00	[signature]	9/22/09 Atl 0830
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
	Fedex		5.1°C	Good	Yes No (None)	0909462

Air Toxics LTD.
Laboratory Services Since 1989

10/2/2009
Mr. Calvin Hee
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: John Nady
Project #: 521000
Workorder #: 0909462

Dear Mr. Calvin Hee

The following report includes the data for the above referenced project for sample(s) received on 9/22/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-17 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0909462

Work Order Summary

CLIENT:	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-3358	**P.O. #**	
FAX:	510-420-9170	**PROJECT #**	521000 John Nady
DATE RECEIVED:	09/22/2009	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/02/2009		

FRACTION #	NAME	TEST
01A	VW-9	Modified TO-17
02A	VW-8	Modified TO-17
03A	VW-1	Modified TO-17
04A	VW-3	Modified TO-17
05A	VW-4	Modified TO-17
06A	VW-2	Modified TO-17
07A	VW-5	Modified TO-17
08A	VW-6	Modified TO-17
09A	VW-7	Modified TO-17
10A	VW-7-Duplicate	Modified TO-17
11A	Lab Blank	Modified TO-17
12A	CCV	Modified TO-17
13A	LCS	Modified TO-17

CERTIFIED BY: Linda D. Frumarn DATE: 10/02/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
TO-17 - Markes ATD
Conestoga-Rovers Associates (CRA)
Workorder# 0909462

Ten TO-17 Tube (Tenax-TA) samples were received on September 22, 2009. The laboratory performed the analysis via modified EPA Method TO-17 using GC/MS in the full scan mode. TO-17 sorbent tubes are thermally desorbed onto a secondary trap. The trap is thermally desorbed to elute the components into the GC/MS system for further separation.

Method modifications taken to run these samples are summarized in the below table. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-17***	***ATL Modifications***
Laboratory Blank	At least 2 tubes from the same cleaning batch as the samples are analyzed at the beginning and end of the analytical sequence. Do not dry purge Lab Blanks.	Tubes used for daily lab blank may or may not be from the same batch or sampling media. Only 1 lab blank is analyzed prior to sample analysis. Lab blanks are dry purged to eliminate the possibility of sample anomaly attributed to dry purge process.
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-17 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

The Chain of Custody (COC) information for samples VW-7 and VW-7-Duplicate did not match the entries on the sample tags with regard to sample identification. Therefore the information on the COC was used to process and report the samples.

Analytical Notes

A sampling volume of 0.30L was used to convert ng to ug/m3 for the associated Lab Blank.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction no performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED METHOD TO-17

Client Sample ID: VW-9

Lab ID#: 0909462-01A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	11000	73000

Client Sample ID: VW-8

Lab ID#: 0909462-02A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	3200	21000

Client Sample ID: VW-1

Lab ID#: 0909462-03A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	110000 E	730000 E

Client Sample ID: VW-3

Lab ID#: 0909462-04A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	160000 E	1100000 E

Client Sample ID: VW-4

Lab ID#: 0909462-05A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	1700	11000

Client Sample ID: VW-2

Lab ID#: 0909462-06A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	97000	650000

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED METHOD TO-17

Client Sample ID: VW-5

Lab ID#: 0909462-07A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	170000 E	1100000 E

Client Sample ID: VW-6

Lab ID#: 0909462-08A

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	1400	9300

Client Sample ID: VW-7

Lab ID#: 0909462-09A

No Detections Were Found.

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909462-10A

No Detections Were Found.

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-9

Lab ID#: 0909462-01A

MODIFIED METHOD TO-17

File Name:	**j093053**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 8:29:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 02:34 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	11000	73000

Air Sample Volume(L): 0.150
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-8

Lab ID#: 0909462-02A

MODIFIED METHOD TO-17

File Name:	**j093054**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 9:23:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 02:59 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	3200	21000

Air Sample Volume(L): 0.150
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-1

Lab ID#: 0909462-03A

MODIFIED METHOD TO-17

File Name:	**j093055**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 10:42:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 03:23 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	110000 E	730000 E

Air Sample Volume(L): 0.150

E = Exceeds instrument calibration range.

Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-3

Lab ID#: 0909462-04A

MODIFIED METHOD TO-17

File Name:	**j093056**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 11:55:00 AM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 03:47 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	160000 E	1100000 E

Air Sample Volume(L): 0.150

E = Exceeds instrument calibration range.

Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-4

Lab ID#: 0909462-05A

MODIFIED METHOD TO-17

File Name:	**j093057**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 12:40:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 04:11 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	1700	11000

Air Sample Volume(L): 0.150
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-2

Lab ID#: 0909462-06A

MODIFIED METHOD TO-17

File Name:	**j093058**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 1:38:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 04:35 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	97000	650000

Air Sample Volume(L): 0.150
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-5

Lab ID#: 0909462-07A

MODIFIED METHOD TO-17

File Name:	**j093059**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 2:31:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 05:00 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	170000 E	1100000 E

Air Sample Volume(L): 0.150

E = Exceeds instrument calibration range.

Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-6

Lab ID#: 0909462-08A

MODIFIED METHOD TO-17

File Name:	**j093060**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 4:02:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 05:24 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	6700	1400	9300

Air Sample Volume(L): 0.150
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7

Lab ID#: 0909462-09A

MODIFIED METHOD TO-17

File Name:	**j093061**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 5:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 05:48 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	3300	Not Detected	Not Detected

Air Sample Volume(L): 0.300
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909462-10A

MODIFIED METHOD TO-17

File Name:	**j093062**	**Date of Extraction: NA**	**Date of Collection: 9/17/09 5:20:00 PM**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 06:12 PM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	3300	Not Detected	Not Detected

Air Sample Volume(L): 0.300
Container Type: TO-17 Tube (Tenax-TA)

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909462-11A

MODIFIED METHOD TO-17

File Name:	**j093042**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 10:09 AM**

Compound	Rpt. Limit (ng)	Rpt. Limit (ug/m3)	Amount (ng)	Amount (ug/m3)
Stoddard Solvent	1000	3300	Not Detected	Not Detected

Air Sample Volume(L): 0.300
Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909462-12A

MODIFIED METHOD TO-17

File Name:	**j093035a**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 05:39 AM**

Compound	%Recovery
Stoddard Solvent	93

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909462-13A

MODIFIED METHOD TO-17

File Name:	**j093041**	**Date of Extraction: NA**	**Date of Collection: NA**
Dil. Factor:	**1.00**		**Date of Analysis: 10/1/09 09:24 AM**

Compound	%Recovery
Stoddard Solvent	86

Air Sample Volume(L): 1.00
Container Type: NA - Not Applicable

2/12/2010
Mr. Calvin Hee
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: John Nady
Project #: 521000
Workorder #: 0909503AR1

Dear Mr. Calvin Hee

The following report includes the data for the above referenced project for sample(s) received on 9/23/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified TO-15 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori

Project Manager

WORK ORDER #: 0909503AR1

Work Order Summary

CLIENT:	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-3358	**P.O. #**	40-4025224
FAX:	510-420-9170	**PROJECT #**	521000 John Nady
DATE RECEIVED:	09/23/2009	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/09/2009		
DATE REISSUED:	02/12/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VW-9	Modified TO-15	3.0 "Hg	15 psi
02A	VW-8	Modified TO-15	4.5 "Hg	15 psi
02AA	VW-8 Lab Duplicate	Modified TO-15	4.5 "Hg	15 psi
03A	VW-1	Modified TO-15	4.5 "Hg	15 psi
04A	VW-3	Modified TO-15	4.5 "Hg	15 psi
05A	VW-4	Modified TO-15	5.0 "Hg	15 psi
06A	VW-2	Modified TO-15	4.0 "Hg	15 psi
07A	VW-5	Modified TO-15	5.5 "Hg	15 psi
08A	VW-6	Modified TO-15	6.0 "Hg	15 psi
09A	VW-7	Modified TO-15	6.0 "Hg	15 psi
10A	VW-7-Duplicate	Modified TO-15	6.0 "Hg	15 psi
11A	Lab Blank	Modified TO-15	NA	NA
11B	Lab Blank	Modified TO-15	NA	NA
11C	Lab Blank	Modified TO-15	NA	NA
12A	CCV	Modified TO-15	NA	NA
12B	CCV	Modified TO-15	NA	NA
12C	CCV	Modified TO-15	NA	NA

Continued on next page

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0909503AR1

Work Order Summary

CLIENT:	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-3358	**P.O. #**	40-4025224
FAX:	510-420-9170	**PROJECT #**	521000 John Nady
DATE RECEIVED:	09/23/2009	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/09/2009		
DATE REISSUED:	02/12/2010		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
13A	LCS	Modified TO-15	NA	NA
13B	LCS	Modified TO-15	NA	NA
13C	LCS	Modified TO-15	NA	NA

CERTIFIED BY: Linda D. Fruman DATE: 02/12/10

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified TO-15 Std & Soil Gas
Conestoga-Rovers Associates (CRA)
Workorder# 0909503AR1

Ten 1 Liter Summa Canister samples were received on September 23, 2009. The laboratory performed analysis via modified EPA Method TO-15 using GC/MS in the Full Scan mode. The method involves concentrating up to 1.0 liter of air. The concentrated aliquot is then flash vaporized and swept through a water management system to remove water vapor. Following dehumidification, the sample passes directly into the GC/MS for analysis.

This workorder was independently validated prior to submittal using 'USEPA National Functional Guidelines' as generally applied to the analysis of volatile organic compounds in air. A rules-based, logic driven, independent validation engine was employed to assess completeness, evaluate pass/fail of relevant project quality control requirements and verification of all quantified amounts.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***TO-15***	***ATL Modifications***
Daily CCV	+- 30% Difference	</= 30% Difference with two allowed out up to </=40%.; flag and narrate outliers
Sample collection media	Summa canister	ATL recommends use of summa canisters to insure data defensibility, but will report results from Tedlar bags at client request
Method Detection Limit	Follow 40CFR Pt.136 App. B	The MDL met all relevant requirements in Method TO-15 (statistical MDL less than the LOQ). The concentration of the spiked replicate may have exceeded 10X the calculated MDL in some cases

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Dilution was performed on samples VW-1, VW-2 and VW-5 due to the presence of high level non-target species.

PER CLIENT'S REQUEST THE WORKORDER WAS RE-ISSUED ON FEBRUARY 12, 2010 TO AMEND THE ANALYTE LIST REPORTED TO INCLUDE NAPHTHALENE. WHILE THE INITIAL REPORT MET THE LABORATORY DATA QUALITY REQUIREMENTS FOR THE ORIGINALLY REQUESTED COMPOUNDS, THE ADDITIONAL COMPOUND WAS NOT EVALUATED FOR QUALITY COMPLIANCE AT THE TIME OF SAMPLE ANALYSIS. AS A RESULT, THE RE-ISSUED REPORT CONTAINS QUALIFIED DATA FOR NAPHTHALENE.

ALL QUALITY CONTROL LIMIT EXCEEDENCES AND AFFECTED SAMPLE RESULTS ARE NOTED BY FLAGS. EACH FLAG IS DEFINED AT THE BOTTOM OF THIS CASE NARRATIVE AND ON EACH SAMPLE RESULT SUMMARY PAGE.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicates as follows:

B - Compound present in laboratory blank greater than reporting limit (background subtraction not performed).

J - Estimated value.

E - Exceeds instrument calibration range.

S - Saturated peak.

Q - Exceeds quality control limits.

U - Compound analyzed for but not detected above the reporting limit.

UJ- Non-detected compound associated with low bias in the CCV

N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:

a-File was requantified

b-File was quantified by a second column and detector

r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: VW-9

Lab ID#: 0909503AR1-01A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Toluene	11	14	42	54
m,p-Xylene	11	12	49	51
TPH ref. to Gasoline (MW=100)	220	130000	920	520000

Client Sample ID: VW-8

Lab ID#: 0909503AR1-02A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	12	630	30	1600
cis-1,2-Dichloroethene	12	16	47	64
TPH ref. to Gasoline (MW=100)	240	26000	970	100000

Client Sample ID: VW-8 Lab Duplicate

Lab ID#: 0909503AR1-02AA

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	24	720	61	1800
TPH ref. to Gasoline (MW=100)	480	28000	1900	110000

Client Sample ID: VW-1

Lab ID#: 0909503AR1-03A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	24000	3500000	97000	14000000

Client Sample ID: VW-3

Lab ID#: 0909503AR1-04A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	24000	2800000	97000	12000000

Client Sample ID: VW-4

Lab ID#: 0909503AR1-05A

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: VW-4

Lab ID#: 0909503AR1-05A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.2	25	8.2	170
TPH ref. to Gasoline (MW=100)	24	810	99	3300

Client Sample ID: VW-2

Lab ID#: 0909503AR1-06A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	16	91	100	620
TPH ref. to Gasoline (MW=100)	310	110000	1300	460000

Client Sample ID: VW-5

Lab ID#: 0909503AR1-07A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	8200	2900000	34000	12000000

Client Sample ID: VW-6

Lab ID#: 0909503AR1-08A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
TPH ref. to Gasoline (MW=100)	25	12000	100	51000

Client Sample ID: VW-7

Lab ID#: 0909503AR1-09A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.3	1.9	8.6	13
TPH ref. to Gasoline (MW=100)	25	230	100	940

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909503AR1-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
MODIFIED EPA METHOD TO-15 GC/MS

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909503AR1-10A

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Tetrachloroethene	1.3	1.8	8.6	12
TPH ref. to Gasoline (MW=100)	25	230	100	940

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-9

Lab ID#: 0909503AR1-01A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100128r1**	**Date of Collection: 9/17/09 8:51:00 AM**	
Dil. Factor:	**2.24**	**Date of Analysis: 10/1/09 09:15 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	11	Not Detected	36	Not Detected
Toluene	11	14	42	54
Ethyl Benzene	11	Not Detected	49	Not Detected
m,p-Xylene	11	12	49	51
o-Xylene	11	Not Detected	49	Not Detected
Vinyl Chloride	11	Not Detected	29	Not Detected
trans-1,2-Dichloroethene	11	Not Detected	44	Not Detected
Trichloroethene	11	Not Detected	60	Not Detected
cis-1,2-Dichloroethene	11	Not Detected	44	Not Detected
Tetrachloroethene	11	Not Detected	76	Not Detected
TPH ref. to Gasoline (MW=100)	220	130000	920	520000
Naphthalene	45	Not Detected UJ	230	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-8

Lab ID#: 0909503AR1-02A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100130r1**	**Date of Collection: 9/17/09 9:42:00 AM**	
Dil. Factor:	**2.38**	**Date of Analysis: 10/1/09 10:24 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	12	Not Detected	38	Not Detected
Toluene	12	Not Detected	45	Not Detected
Ethyl Benzene	12	Not Detected	52	Not Detected
m,p-Xylene	12	Not Detected	52	Not Detected
o-Xylene	12	Not Detected	52	Not Detected
Vinyl Chloride	12	630	30	1600
trans-1,2-Dichloroethene	12	Not Detected	47	Not Detected
Trichloroethene	12	Not Detected	64	Not Detected
cis-1,2-Dichloroethene	12	16	47	64
Tetrachloroethene	12	Not Detected	81	Not Detected
TPH ref. to Gasoline (MW=100)	240	26000	970	100000
Naphthalene	48	Not Detected UJ	250	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-8 Lab Duplicate

Lab ID#: 0909503AR1-02AA

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100129r1**	**Date of Collection: 9/17/09 9:42:00 AM**	
Dil. Factor:	**4.76**	**Date of Analysis: 10/1/09 09:37 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	24	Not Detected	76	Not Detected
Toluene	24	Not Detected	90	Not Detected
Ethyl Benzene	24	Not Detected	100	Not Detected
m,p-Xylene	24	Not Detected	100	Not Detected
o-Xylene	24	Not Detected	100	Not Detected
Vinyl Chloride	24	720	61	1800
trans-1,2-Dichloroethene	24	Not Detected	94	Not Detected
Trichloroethene	24	Not Detected	130	Not Detected
cis-1,2-Dichloroethene	24	Not Detected	94	Not Detected
Tetrachloroethene	24	Not Detected	160	Not Detected
TPH ref. to Gasoline (MW=100)	480	28000	1900	110000
Naphthalene	95	Not Detected UJ	500	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	95	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-1

Lab ID#: 0909503AR1-03A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100131r1**	**Date of Collection:**	**9/17/09 11:02:00 AM**
Dil. Factor:	**238**	**Date of Analysis:**	**10/1/09 10:47 PM**

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1200	Not Detected	3800	Not Detected
Toluene	1200	Not Detected	4500	Not Detected
Ethyl Benzene	1200	Not Detected	5200	Not Detected
m,p-Xylene	1200	Not Detected	5200	Not Detected
o-Xylene	1200	Not Detected	5200	Not Detected
Vinyl Chloride	1200	Not Detected	3000	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4700	Not Detected
Trichloroethene	1200	Not Detected	6400	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4700	Not Detected
Tetrachloroethene	1200	Not Detected	8100	Not Detected
TPH ref. to Gasoline (MW=100)	24000	3500000	97000	14000000
Naphthalene	4800	Not Detected UJ	25000	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-3

Lab ID#: 0909503AR1-04A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100132r1**	**Date of Collection: 9/17/09 12:13:00 PM**	
Dil. Factor:	**238**	**Date of Analysis: 10/1/09 11:10 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	1200	Not Detected	3800	Not Detected
Toluene	1200	Not Detected	4500	Not Detected
Ethyl Benzene	1200	Not Detected	5200	Not Detected
m,p-Xylene	1200	Not Detected	5200	Not Detected
o-Xylene	1200	Not Detected	5200	Not Detected
Vinyl Chloride	1200	Not Detected	3000	Not Detected
trans-1,2-Dichloroethene	1200	Not Detected	4700	Not Detected
Trichloroethene	1200	Not Detected	6400	Not Detected
cis-1,2-Dichloroethene	1200	Not Detected	4700	Not Detected
Tetrachloroethene	1200	Not Detected	8100	Not Detected
TPH ref. to Gasoline (MW=100)	24000	2800000	97000	12000000
Naphthalene	4800	Not Detected UJ	25000	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-4

Lab ID#: 0909503AR1-05A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100811r1**	**Date of Collection: 9/17/09 1:00:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 10/8/09 12:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.2	Not Detected	3.1	Not Detected
cis-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Trichloroethene	1.2	Not Detected	6.5	Not Detected
Tetrachloroethene	1.2	25	8.2	170
trans-1,2-Dichloroethene	1.2	Not Detected	4.8	Not Detected
Benzene	1.2	Not Detected	3.9	Not Detected
Toluene	1.2	Not Detected	4.6	Not Detected
Ethyl Benzene	1.2	Not Detected	5.2	Not Detected
m,p-Xylene	1.2	Not Detected	5.2	Not Detected
o-Xylene	1.2	Not Detected	5.2	Not Detected
TPH ref. to Gasoline (MW=100)	24	810	99	3300
Naphthalene	4.8	Not Detected	25	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	104	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-2

Lab ID#: 0909503AR1-06A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100812r1**	**Date of Collection: 9/17/09 1:56:00 PM**	
Dil. Factor:	**31.1**	**Date of Analysis: 10/8/09 02:09 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	16	Not Detected	40	Not Detected
cis-1,2-Dichloroethene	16	Not Detected	62	Not Detected
Trichloroethene	16	Not Detected	84	Not Detected
Tetrachloroethene	16	91	100	620
trans-1,2-Dichloroethene	16	Not Detected	62	Not Detected
Benzene	16	Not Detected	50	Not Detected
Toluene	16	Not Detected	58	Not Detected
Ethyl Benzene	16	Not Detected	68	Not Detected
m,p-Xylene	16	Not Detected	68	Not Detected
o-Xylene	16	Not Detected	68	Not Detected
TPH ref. to Gasoline (MW=100)	310	110000	1300	460000
Naphthalene	62	Not Detected	330	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-5

Lab ID#: 0909503AR1-07A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100908r1**	**Date of Collection: 9/17/09 2:49:00 PM**	
Dil. Factor:	**82.3**	**Date of Analysis: 10/9/09 10:43 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	410	Not Detected	1300	Not Detected
Toluene	410	Not Detected	1600	Not Detected
Ethyl Benzene	410	Not Detected	1800	Not Detected
m,p-Xylene	410	Not Detected	1800	Not Detected
o-Xylene	410	Not Detected	1800	Not Detected
Vinyl Chloride	410	Not Detected	1000	Not Detected
trans-1,2-Dichloroethene	410	Not Detected	1600	Not Detected
Trichloroethene	410	Not Detected	2200	Not Detected
cis-1,2-Dichloroethene	410	Not Detected	1600	Not Detected
Tetrachloroethene	410	Not Detected	2800	Not Detected
TPH ref. to Gasoline (MW=100)	8200	2900000	34000	12000000
Naphthalene	1600	Not Detected	8600	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-6

Lab ID#: 0909503AR1-08A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100824r1**	**Date of Collection: 9/17/09 3:51:00 PM**	
Dil. Factor:	**2.53**	**Date of Analysis: 10/8/09 11:48 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	Not Detected	8.6	Not Detected
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
TPH ref. to Gasoline (MW=100)	25	12000	100	51000
Naphthalene	5.1	Not Detected	26	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	124	70-130
Toluene-d8	105	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7

Lab ID#: 0909503AR1-09A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100814r1**	**Date of Collection: 9/17/09 5:07:00 PM**	
Dil. Factor:	**2.53**	**Date of Analysis: 10/8/09 03:25 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	1.9	8.6	13
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
TPH ref. to Gasoline (MW=100)	25	230	100	940
Naphthalene	5.1	Not Detected	26	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	102	70-130
4-Bromofluorobenzene	101	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909503AR1-10A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100815r1**	**Date of Collection: 9/17/09 5:07:00 PM**	
Dil. Factor:	**2.53**	**Date of Analysis: 10/8/09 04:28 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	1.3	Not Detected	3.2	Not Detected
cis-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Trichloroethene	1.3	Not Detected	6.8	Not Detected
Tetrachloroethene	1.3	1.8	8.6	12
trans-1,2-Dichloroethene	1.3	Not Detected	5.0	Not Detected
Benzene	1.3	Not Detected	4.0	Not Detected
Toluene	1.3	Not Detected	4.8	Not Detected
Ethyl Benzene	1.3	Not Detected	5.5	Not Detected
m,p-Xylene	1.3	Not Detected	5.5	Not Detected
o-Xylene	1.3	Not Detected	5.5	Not Detected
TPH ref. to Gasoline (MW=100)	25	230	100	940
Naphthalene	5.1	Not Detected	26	Not Detected

Container Type: 1 Liter Summa Canister

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	108	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	103	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909503AR1-11A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100120a**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/09 03:44 PM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected
Naphthalene	20	Not Detected UJ	100	Not Detected UJ

UJ = Non-detected compound associated with low bias in the CCV

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	97	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909503AR1-11B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100805**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/8/09 06:03 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Vinyl Chloride	0.50	Not Detected	1.3	Not Detected
cis-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Trichloroethene	0.50	Not Detected	2.7	Not Detected
Tetrachloroethene	0.50	Not Detected	3.4	Not Detected
trans-1,2-Dichloroethene	0.50	Not Detected	2.0	Not Detected
Benzene	0.50	Not Detected	1.6	Not Detected
Toluene	0.50	Not Detected	1.9	Not Detected
Ethyl Benzene	0.50	Not Detected	2.2	Not Detected
m,p-Xylene	0.50	Not Detected	2.2	Not Detected
o-Xylene	0.50	Not Detected	2.2	Not Detected
TPH ref. to Gasoline (MW=100)	10	Not Detected	41	Not Detected
Naphthalene	2.0	Not Detected	10	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909503AR1-11C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100906**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/09 09:05 AM**	

Compound	Rpt. Limit (ppbv)	Amount (ppbv)	Rpt. Limit (ug/m3)	Amount (ug/m3)
Benzene	5.0	Not Detected	16	Not Detected
Toluene	5.0	Not Detected	19	Not Detected
Ethyl Benzene	5.0	Not Detected	22	Not Detected
m,p-Xylene	5.0	Not Detected	22	Not Detected
o-Xylene	5.0	Not Detected	22	Not Detected
Vinyl Chloride	5.0	Not Detected	13	Not Detected
trans-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Trichloroethene	5.0	Not Detected	27	Not Detected
cis-1,2-Dichloroethene	5.0	Not Detected	20	Not Detected
Tetrachloroethene	5.0	Not Detected	34	Not Detected
TPH ref. to Gasoline (MW=100)	100	Not Detected	410	Not Detected
Naphthalene	20	Not Detected	100	Not Detected

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	88	70-130
Toluene-d8	96	70-130
4-Bromofluorobenzene	96	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909503AR1-12A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100102**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/09 04:01 AM**	

Compound	**%Recovery**
Benzene	97
Toluene	92
Ethyl Benzene	92
m,p-Xylene	93
o-Xylene	92
Vinyl Chloride	93
trans-1,2-Dichloroethene	91
Trichloroethene	90
cis-1,2-Dichloroethene	89
Tetrachloroethene	91
TPH ref. to Gasoline (MW=100)	113
Naphthalene	56 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	93	70-130
Toluene-d8	99	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909503AR1-12B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100802**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/8/09 03:33 AM**	

Compound	%Recovery
Vinyl Chloride	96
cis-1,2-Dichloroethene	100
Trichloroethene	101
Tetrachloroethene	100
trans-1,2-Dichloroethene	98
Benzene	98
Toluene	97
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	100
TPH ref. to Gasoline (MW=100)	111
Naphthalene	70

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	101	70-130
4-Bromofluorobenzene	99	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: CCV

Lab ID#: 0909503AR1-12C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100903**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/09 04:22 AM**	

Compound	%Recovery
Benzene	101
Toluene	96
Ethyl Benzene	99
m,p-Xylene	100
o-Xylene	98
Vinyl Chloride	94
trans-1,2-Dichloroethene	96
Trichloroethene	92
cis-1,2-Dichloroethene	91
Tetrachloroethene	96
TPH ref. to Gasoline (MW=100)	107
Naphthalene	88

Container Type: NA - Not Applicable

Surrogates	%Recovery	Method Limits
1,2-Dichloroethane-d4	85	70-130
Toluene-d8	98	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909503AR1-13A

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100104**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/1/09 05:05 AM**	

Compound	**%Recovery**
Benzene	110
Toluene	108
Ethyl Benzene	103
m,p-Xylene	102
o-Xylene	104
Vinyl Chloride	104
trans-1,2-Dichloroethene	104
Trichloroethene	102
cis-1,2-Dichloroethene	104
Tetrachloroethene	106
TPH ref. to Gasoline (MW=100)	Not Spiked
Naphthalene	74

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	92	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	98	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909503AR1-13B

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**t100803**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/8/09 04:13 AM**	

Compound	**%Recovery**
Vinyl Chloride	98
cis-1,2-Dichloroethene	108
Trichloroethene	107
Tetrachloroethene	106
trans-1,2-Dichloroethene	104
Benzene	105
Toluene	107
Ethyl Benzene	103
m,p-Xylene	103
o-Xylene	104
TPH ref. to Gasoline (MW=100)	Not Spiked
Naphthalene	52 Q

Q = Exceeds Quality Control limits.

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	94	70-130
Toluene-d8	100	70-130
4-Bromofluorobenzene	100	70-130

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909503AR1-13C

MODIFIED EPA METHOD TO-15 GC/MS

File Name:	**b100904**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 10/9/09 06:04 AM**	

Compound	**%Recovery**
Benzene	101
Toluene	98
Ethyl Benzene	94
m,p-Xylene	93
o-Xylene	93
Vinyl Chloride	94
trans-1,2-Dichloroethene	98
Trichloroethene	93
cis-1,2-Dichloroethene	94
Tetrachloroethene	97
TPH ref. to Gasoline (MW=100)	Not Spiked
Naphthalene	63

Container Type: NA - Not Applicable

Surrogates	**%Recovery**	**Method Limits**
1,2-Dichloroethane-d4	84	70-130
Toluene-d8	97	70-130
4-Bromofluorobenzene	97	70-130

Air Toxics LTD.
Laboratory Services Since 1989

10/2/2009
Mr. Calvin Hee
Conestoga-Rovers Associates (CRA)
5900 Hollis Street
Suite A
Emeryville CA 94608

Project Name: John Nady
Project #: 521000
Workorder #: 0909503B

Dear Mr. Calvin Hee

The following report includes the data for the above referenced project for sample(s) received on 9/23/2009 at Air Toxics Ltd.

The data and associated QC analyzed by Modified ASTM D-1946 are compliant with the project requirements or laboratory criteria with the exception of the deviations noted in the attached case narrative.

Thank you for choosing Air Toxics Ltd. for your air analysis needs. Air Toxics Ltd. is committed to providing accurate data of the highest quality. Please feel free to contact the Project Manager: Kyle Vagadori at 916-985-1000 if you have any questions regarding the data in this report.

Regards,

Kyle Vagadori
Project Manager

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0909503B

Work Order Summary

CLIENT:	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608	**BILL TO:**	Mr. Calvin Hee Conestoga-Rovers Associates (CRA) 5900 Hollis Street Suite A Emeryville, CA 94608
PHONE:	510-420-3358	**P.O. #**	
FAX:	510-420-9170	**PROJECT #**	521000 John Nady
DATE RECEIVED:	09/23/2009	**CONTACT:**	Kyle Vagadori
DATE COMPLETED:	10/02/2009		

FRACTION #	NAME	TEST	RECEIPT VAC./PRES.	FINAL PRESSURE
01A	VW-9	Modified ASTM D-1946	3.0 "Hg	15 psi
01AA	VW-9 Lab Duplicate	Modified ASTM D-1946	3.0 "Hg	15 psi
02A	VW-8	Modified ASTM D-1946	4.5 "Hg	15 psi
03A	VW-1	Modified ASTM D-1946	4.5 "Hg	15 psi
04A	VW-3	Modified ASTM D-1946	4.5 "Hg	15 psi
05A	VW-4	Modified ASTM D-1946	5.0 "Hg	15 psi
05AA	VW-4 Lab Duplicate	Modified ASTM D-1946	5.0 "Hg	15 psi
06A	VW-2	Modified ASTM D-1946	4.0 "Hg	15 psi
07A	VW-5	Modified ASTM D-1946	5.5 "Hg	15 psi
08A	VW-6	Modified ASTM D-1946	6.0 "Hg	15 psi
09A	VW-7	Modified ASTM D-1946	6.0 "Hg	15 psi
10A	VW-7-Duplicate	Modified ASTM D-1946	6.0 "Hg	15 psi
11A	Lab Blank	Modified ASTM D-1946	NA	NA
11B	Lab Blank	Modified ASTM D-1946	NA	NA
12A	LCS	Modified ASTM D-1946	NA	NA

CERTIFIED BY: Linda D. Frumarn DATE: 10/02/09

Laboratory Director

Certfication numbers: CA NELAP - 02110CA, LA NELAP/LELAP- AI 30763, NJ NELAP - CA004
NY NELAP - 11291, UT NELAP - 9166389892, AZ Licensure AZ0719
Name of Accrediting Agency: NELAP/Florida Department of Health, Scope of Application: Clean Air Act,
Accreditation number: E87680, Effective date: 07/01/09, Expiration date: 06/30/10
Air Toxics Ltd. certifies that the test results contained in this report meet all requirements of the NELAC standards

180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
Modified ASTM D-1946
Conestoga-Rovers Associates (CRA)
Workorder# 0909503B

Ten 1 Liter Summa Canister samples were received on September 23, 2009. The laboratory performed analysis via Modified ASTM Method D-1946 for Methane and fixed gases in air using GC/FID or GC/TCD. The method involves direct injection of 1.0 mL of sample.

On the analytical column employed for this analysis, Oxygen coelutes with Argon. The corresponding peak is quantitated as Oxygen.

Method modifications taken to run these samples are summarized in the table below. Specific project requirements may over-ride the ATL modifications.

Requirement	***ASTM D-1946***	***ATL Modifications***
Calibration	A single point calibration is performed using a reference standard closely matching the composition of the unknown.	A 3-point calibration curve is performed. Quantitation is based on a daily calibration standard which may or may not resemble the composition of the associated samples.
Reference Standard	The composition of any reference standard must be known to within 0.01 mol % for any component.	The standards used by ATL are blended to a >/= 95% accuracy.
Sample Injection Volume	Components whose concentrations are in excess of 5 % should not be analyzed by using sample volumes greater than 0.5 mL.	The sample container is connected directly to a fixed volume sample loop of 1.0 mL on the GC. Linear range is defined by the calibration curve. Bags are loaded by vacuum.
Normalization	Normalize the mole percent values by multiplying each value by 100 and dividing by the sum of the original values. The sum of the original values should not differ from 100% by more than 1.0%.	Results are not normalized. The sum of the reported values can differ from 100% by as much as 15%, either due to analytical variability or an unusual sample matrix.
Precision	Precision requirements established at each concentration level.	Duplicates should agree within 25% RPD for detections > 5 X's the RL.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

There were no analytical discrepancies.

Definition of Data Qualifying Flags

Seven qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VW-9

Lab ID#: 0909503B-01A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	2.5
Methane	0.00022	9.5
Carbon Dioxide	0.022	7.5

Client Sample ID: VW-9 Lab Duplicate

Lab ID#: 0909503B-01AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.22	2.5
Methane	0.00022	9.6
Carbon Dioxide	0.022	7.5

Client Sample ID: VW-8

Lab ID#: 0909503B-02A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.2
Methane	0.00024	1.5
Carbon Dioxide	0.024	17

Client Sample ID: VW-1

Lab ID#: 0909503B-03A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.3
Methane	0.00024	0.39
Carbon Dioxide	0.024	16

Client Sample ID: VW-3

Lab ID#: 0909503B-04A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	1.2
Methane	0.00024	3.2

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VW-3

Lab ID#: 0909503B-04A

Carbon Dioxide	0.024	17

Client Sample ID: VW-4

Lab ID#: 0909503B-05A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Methane	0.00024	0.0015
Carbon Dioxide	0.024	5.2

Client Sample ID: VW-4 Lab Duplicate

Lab ID#: 0909503B-05AA

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.24	16
Methane	0.00024	0.0015
Carbon Dioxide	0.024	5.2

Client Sample ID: VW-2

Lab ID#: 0909503B-06A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.23	11
Methane	0.00023	0.089
Carbon Dioxide	0.023	8.8

Client Sample ID: VW-5

Lab ID#: 0909503B-07A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	1.3
Methane	0.00025	10
Carbon Dioxide	0.025	11

Air Toxics LTD.
Laboratory Services Since 1989

Summary of Detected Compounds
NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

Client Sample ID: VW-6

Lab ID#: 0909503B-08A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.6
Methane	0.00025	0.013
Carbon Dioxide	0.025	17

Client Sample ID: VW-7

Lab ID#: 0909503B-09A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	3.8
Carbon Dioxide	0.025	13

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909503B-10A

Compound	Rpt. Limit (%)	Amount (%)
Oxygen	0.25	4.0
Carbon Dioxide	0.025	13

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-9

Lab ID#: 0909503B-01A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092416**	**Date of Collection:**	**9/17/09 8:51:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/24/09 05:41 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.22	2.5
Methane	0.00022	9.5
Carbon Dioxide	0.022	7.5
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-9 Lab Duplicate

Lab ID#: 0909503B-01AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092417**	**Date of Collection:**	**9/17/09 8:51:00 AM**
Dil. Factor:	**2.24**	**Date of Analysis:**	**9/24/09 06:08 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.22	2.5
Methane	0.00022	9.6
Carbon Dioxide	0.022	7.5
Helium	0.11	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-8

Lab ID#: 0909503B-02A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092418**	**Date of Collection:**	**9/17/09 9:42:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**9/24/09 06:30 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	1.2
Methane	0.00024	1.5
Carbon Dioxide	0.024	17
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-1

Lab ID#: 0909503B-03A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092419**	**Date of Collection:**	**9/17/09 11:02:00 AM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**9/24/09 07:00 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	1.3
Methane	0.00024	0.39
Carbon Dioxide	0.024	16
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-3

Lab ID#: 0909503B-04A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092420**	**Date of Collection:**	**9/17/09 12:13:00 PM**
Dil. Factor:	**2.38**	**Date of Analysis:**	**9/24/09 07:24 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	1.2
Methane	0.00024	3.2
Carbon Dioxide	0.024	17
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-4

Lab ID#: 0909503B-05A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092421**	**Date of Collection:**	**9/17/09 1:00:00 PM**
Dil. Factor:	**2.42**	**Date of Analysis:**	**9/24/09 07:46 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	16
Methane	0.00024	0.0015
Carbon Dioxide	0.024	5.2
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-4 Lab Duplicate

Lab ID#: 0909503B-05AA

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092423**	**Date of Collection: 9/17/09 1:00:00 PM**	
Dil. Factor:	**2.42**	**Date of Analysis: 9/24/09 08:33 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.24	16
Methane	0.00024	0.0015
Carbon Dioxide	0.024	5.2
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-2

Lab ID#: 0909503B-06A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092422**	**Date of Collection: 9/17/09 1:56:00 PM**	
Dil. Factor:	**2.33**	**Date of Analysis: 9/24/09 08:07 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.23	11
Methane	0.00023	0.089
Carbon Dioxide	0.023	8.8
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-5

Lab ID#: 0909503B-07A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092424**	**Date of Collection:**	**9/17/09 2:49:00 PM**
Dil. Factor:	**2.47**	**Date of Analysis:**	**9/24/09 09:05 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	1.3
Methane	0.00025	10
Carbon Dioxide	0.025	11
Helium	0.12	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-6

Lab ID#: 0909503B-08A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092425**	**Date of Collection:**	**9/17/09 3:51:00 PM**
Dil. Factor:	**2.53**	**Date of Analysis:**	**9/24/09 09:27 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	4.6
Methane	0.00025	0.013
Carbon Dioxide	0.025	17
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7

Lab ID#: 0909503B-09A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092426**	**Date of Collection:**	**9/17/09 5:07:00 PM**
Dil. Factor:	**2.53**	**Date of Analysis:**	**9/24/09 09:52 PM**

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	3.8
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	13
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: VW-7-Duplicate

Lab ID#: 0909503B-10A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092427**	**Date of Collection: 9/17/09 5:07:00 PM**	
Dil. Factor:	**2.53**	**Date of Analysis: 9/24/09 10:15 PM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.25	4.0
Methane	0.00025	Not Detected
Carbon Dioxide	0.025	13
Helium	0.13	Not Detected

Container Type: 1 Liter Summa Canister

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909503B-11A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092403**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/09 08:09 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Oxygen	0.10	Not Detected
Methane	0.00010	Not Detected
Carbon Dioxide	0.010	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: Lab Blank

Lab ID#: 0909503B-11B

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092402b**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/09 07:46 AM**	

Compound	**Rpt. Limit (%)**	**Amount (%)**
Helium	0.050	Not Detected

Container Type: NA - Not Applicable

Air Toxics LTD.
Laboratory Services Since 1989

Client Sample ID: LCS

Lab ID#: 0909503B-12A

NATURAL GAS ANALYSIS BY MODIFIED ASTM D-1946

File Name:	**9092428**	**Date of Collection: NA**	
Dil. Factor:	**1.00**	**Date of Analysis: 9/24/09 10:36 PM**	

Compound	%Recovery
Oxygen	100
Methane	100
Carbon Dioxide	100
Helium	104

Container Type: NA - Not Applicable

APPENDIX I

SOIL GAS FIELD DATA SHEETS

CRA

DAILY FIELD REPORT

Project Name: John Nady	CRA Mgr: Mark Jonas	Field Rep: Bryan Fong
Project Number: 521000	Date: 9-17-2009	Site Address: 1167 65th St. Oakland, CA
General Tasks: Soil gas sampling.		

Time	Activity/Comments	Hours
7:00	Load equipment to vehicle.	
7:30	MOB to Site.	
7:35	Arrived at Site. Reviewed and signed HASP	
7:55	Opened VW-9.	
8:20	Began vacuum test for VW-9. Begin @ -29.	
8:27	Begin sorbent tube sample VW-9. 150ml collected @ 8:29.	
8:34	Vacuum test passed for VW-9. End @ -29.	
9:13	Began vacuum test for VW-8. Begin @ -25.5.	
9:21	Begin sorbent tube sample VW-8. 150ml collected @ 9:23	
9:26	Vacuum test passed for VW-8. End @ -25.5.	
10:30	Frederic Shragg gave access to VW-1	
10:35	Began vacuum test for VW-1. Begin @ -20.	
10:40	Begin sorbent tube sample VW-1. 150 ml collected @ 10:42	
10:45	Vacuum test passed for VW-1. End @ -20.	
11:47	Begin vacuum test for VW-3. Begin @ -15.	
11:52	Begin sorbent tube sample for VW-3. 150ml collected @ 11:55	
11:57	Vacuum test passed for VW-3. End @ -15.	
12:28	Begin vacuum test on VW-4. Begin @ -10.5.	
12:38	Begin sorbent tube sample for VW-4. 150ml collected @ 12:40	
12:44	Vacuum test passed for VW-4. End @ -10.5	
13:30	Begin vacuum test on VW-2. Begin @ -8.	
13:36	Begin sorbent tube sample on VW-2. 150ml collected @ 13:38	
13:41	Vacuum test passed for VW-2. End @ -8.	
14:25	Begin Vacuum test on VW-5. Begun @ -5	
14:29	Begin sorbent tube sample on VW-5. 150ml collected @ 14:31	
14:35	Vacuum test passed for VW-5. End @ -5.	
15:30	Begin vacuum test on VW-6. Begin @ -27.	
15:40	Vacuum test passed for VW-6. End @ -27.	
16:00	Begin sorbent tube sample on VW-6. End @ 16:02.	
16:38	Begin vacuum test VW-7. Begin @ -22.5.	

RLX Berkeley

CRA

DAILY FIELD REPORT

Project Name: Nady	CRA Mgr: Mark Sonas	Field Rep: Bryan Bang
Project Number: 521000	Date: 9-17-09	Site Address: 1167 65th St. Oakland, CA
General Tasks: Page 2.		

Time	Activity/Comments	Hours
16:48	Vacuum test pass for MW-7. End @ -22.5	
17:16	Begin sorbent tube sample on MW-7 & MW-7-Duplicate.	
17:20	Sample collected sorbent tube MW-7 & MW-7-Duplicate. 300ml total.	
17:45	Clean up. Mob back to office.	

U:\FIELD FORMS - TEMPLATES\DFR TEMPLATE.DOC
NSM 8/16/94

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-1

Project Name: Nady **Date:** 9-17-2009

Project No: 521000 **Sampler:** Bryan Fong

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 31795

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
10:45	-30	11:02	-6.5	11:02

Notes:

Soil Vapor Sampling Point ID: VW-3

Project Name: Nady **Date:** 9-17-2009

Project No: 521000 **Sampler:** Bryan Fong

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3 in.

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 1026

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
12:05	-30	12:13	-6.5	12:13

Notes:

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-4

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St.

Date: 9-17-09
Sampler: Bryan Fong
PM: Mark Jonas

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 36458

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
12:52	-30	13:00	-7	13:00

Notes:

Soil Vapor Sampling Point ID: VW-2

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St

Date: 9-17-09
Sampler: Bryan Fong
PM: Mark Jonas

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 9383AT

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
13:48	-30	13:56	-6	13:56

Notes:

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-5

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St.

Date: 9-17-09
Sampler: Bryan Fong
PM: Mark Jonas

Purge Volume

Calculated Purge Volume: 3in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 9491

Summa Canister Size: 1-liter Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
14:41	-30	14:49	-7	14:49

Notes:

Soil Vapor Sampling Point ID: VW-6

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St.

Date: 9-17-09
Sampler: Bryan Fong
PM: Mark Jonas

Purge Volume

Calculated Purge Volume: 3in.

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 9476

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
15:45	-30	15:51	-7.5	15:51

Notes: Sorbent tube sampled after summa can.

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-7

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St.

Date: 9-17-09
Sampler: Bryan Fong
PM: Mark Jonas

Purge Volume

Calculated Purge Volume: 3in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 9467

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
16:57	-30	17:07	-7.5	17:07

Notes:

Soil Vapor Sampling Point ID: VW-7-Duplicate.

Project Name: Nady
Project No: 521000
Site Address: 1167 65th St.

Date: 9-17-09
Sampler: _____
PM: _____

Purge Volume

Calculated Purge Volume: 3in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 9466

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
16:57	-30	17:07	-7.5	17:07

Notes:

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-9

Project Name: Nady
Project No: 521060
Site Address:

Date: 9-17-2009
Sampler: Bryan Fong
PM:

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting:
Summa Canister ID: 34106
Summa Canister Size:
Analysis:

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
8:45	-30	8:51	-4	8:51

Notes:

Soil Vapor Sampling Point ID: VW-8

Project Name: Nady
Project No: 521060
Site Address:

Date: 9-17-2009
Sampler: Bryan Fong
PM:

Purge Volume

Calculated Purge Volume: 3in

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting:
Summa Canister ID: 1041
Summa Canister Size:
Analysis:

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
9:34	-30	9:42	-6.5	9:42

Notes: Moisture observed on top of canister after sample.

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922.

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Mark Jonas

Collected by: (Print and Sign) Bryan Fong Bryan A Fong

Company Conestoga-Rovers & Associates Email MJONAS@CRAworld.com

Address 5900 Hollis St, Suite A City Emeryville State CA Zip 94608

Phone 510-420-0700 Fax 510-420-9170

Project Info:
P.O. #
Project # 521000
Project Name John Nady

Turn Around Time:
☒ Normal
☐ Rush
specify

Circle Reporting Units:
ppbv ppmv
ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
	VW-9	G0125765	9-17-09	8:27	8:29	2min	150ml	TPHss (TO-17)
	VW-8	Mi130468		9:21	9:23	2min	150ml	
	VW-1	G0125216		10:40	10:42	2min	150ml	
	VW-3	Mi118375		11:52	11:55	2min	150ml	
	VW-4	Mi130235		12:38	12:40	2min	150ml	
	VW-2	G0125282		13:36	13:38	2min	150ml	
	VW-5	Mi113121		14:29	14:31	2min	150ml	
	VW-6	G0125215		16:00	16:02	2min	150ml	
	VW-7	G0125432		17:16	17:20	4 min	300ml	
	VW-7-Duplicate	G0122826	↓	17:16	17:20	4 min	300ml	↓

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Bryan A Fong	9/21/09 / 15:00		
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact?	Work Order #
					Yes No None	

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager Mark Jonas

Collected by: (Print and Sign) Bryan Fong Bryan A Fong

Company Conestoga-Rovers & Associates Email MJONAS@CRAworld.com

Address 5900 Hollis St, Suite A City Emeryville State CA Zip 94608

Phone 510-420-0700 Fax 510-420-9170

Project Info:

P.O. # _____

Project # 521000

Project Name John Nady

Turn Around Time:

☒ Normal

☐ Rush

_____ specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	VW-9	34106	9-17-09	8:51	TPHg (TO-15), BTEX (TO-15),	-30	-4		
	VW-8	1041	9-17-09	9:42	PCE, TCE, cis-1,2-DCE,	-30	-6.5		
	VW-1	31795	9-17-09	11:02	Trans-1,2-DCE, VC (TO-15)	-30	-6.5		
	VW-3	1026	9-17-09	12:13	Helium, O_2, CO_2, Methane	-30	-6.5		
	VW-4	36458	9-17-09	13:00	(ASTM D-1946)	-30	-7		
	VW-2	9383AT	9-17-09	13:56		-30	-6		
	VW-5	94911	9-17-09	14:49		-30	-7		
	VW-6	9476	9-17-09	15:51		-30	-7.5		
	VW-7	9467	9-17-09	17:07		-30	-7.5		
	VW-7-Duplicate	9466	9-17-09	17:07		-30	-7.5		

Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Bryan A Fong 9/21/09 / 15:00	
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time
Relinquished by: (signature) Date/Time	Received by: (signature) Date/Time

Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact? Yes No None	Work Order #

Form 1293 rev.11

CRA

DAILY FIELD REPORT

Project Name: Nady	CRA Mgr: Robert Foss	Field Rep: Bryan Fong / Calvin Hee
Project Number: 521000	Date: 12/9/09	Site Address: 1167 65th St, Oakland
General Tasks: Collect soil gas samples from VW-1 through VW-9		

Time	Activity/Comments	Hours
8:30	Load equipment & MOB to Site	
9:00	Tailgate meeting / Signed HASP	
9:15	Correspondence with tenant (Erica) at 1167 65th St. Access granted to wells VW-3 & VW-4 via side door on east side of unit.	
9:39	Vacuum test begin @ -22. End test @ -22. 9:54 Pass.	
10:20	Vacuum test begin @ -27.5. End test @ -27.5. 10:30 Pass	
10:33	Collected TO-17 sample for VW-3	
10:55	Collected TO-17 sample for VW-4	
11:18	Vacuum test begin @ -5.5. End test @ -5.5. 11:29 Pass	
11:29	Vacuum test begin @ -22. End test @ -22. 11:45 Pass	
1:45	Vacuum test begin @ -29.5. End test @ -29.5. 12:00 Pass	
12:00	Collected TO-17 sample for VW-1	
12:26	Water observed in VW-2 tubing during purging/sampling. No sample collected.	
12:57	Vacuum test begin @ -15. End test @ -15. 13:22 Pass	
13:10	Collected TO-17 sample for VW-5	
13:44	Vacuum test begin @ -23. End test @ -23. 14:04 Pass	
14:32	Water observed in well VW-6 tubing during sampling. No sample collected. Duplicate - T sampling train contained water. No duplicate was collected.	
14:37	TO-17 sample collected for VW-6. Will not sample due to water observed.	
14:44	Vacuum test begin @ -12.5. End test @ -12.5. 15:25 Pass.	
15:25	Vacuum test begin @ -17. End test @ -17. 15:35 Pass.	
15:30	Water in well box for VW-7. Collected TO-17 sample for VW-7.	
16:22	Water in well box for VW-8. Collected TO-17 sample for VW-8.	
16:38	Water observed in VW-9 tubing during sampling. No sample collected.	
17:00	MOB back to office. Unload equipment.	

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-1

Project Name: _____ **Date:** _____

Project No: _____ **Sampler:** _____

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
11:37			C

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 34125

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
11:42	-30	11:49	-5	

Notes:

Soil Vapor Sampling Point ID: VW-2

Project Name: _____ **Date:** _____

Project No: _____ **Sampler:** _____

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
12:06			D

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 24401

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
12:15	-30			

Notes:

moisture, water in line drawn up, not able to sample

~~Bubbler + water trap drawn up~~

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-3

Project Name: _____ **Date:** 12/9/09

Project No: _____ **Sampler:** Bryer / Calvin

Site Address: _____ **PM:** Robert Foss

Purge Volume

Calculated Purge Volume: 4

Time	Flow Rate	Volume	Comments
10:05			A

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 34160

Summa Canister Size: 1-Liter Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
10:07	-30	10:14	~~-30~~ -8	

Notes:

Soil Vapor Sampling Point ID: VW-4

Project Name: John Nady **Date:** ~~35546~~ 12/9/09

Project No: 521000 **Sampler:** Bryer / Calvin

Site Address: 1137-1167 65th St. **PM:** R Foss

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
10:38			B

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 35546

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
10:42	-30	10:50	-5	

Notes:

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-5

Project Name: SOHN NADY **Date:** 12/9/09

Project No: 52000 **Sampler:**

Site Address: 1137 65th St **PM:**
Oakland CA

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
12:35			E

Sample Collection

Flow Control Setting: Summa Canister ID: 34668

Summa Canister Size: Analysis:

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
CH 12:48	-30	12:55	-5	

Notes:

slight Condensation in line

Soil Vapor Sampling Point ID: VW-6

Project Name: **Date:**

Project No: **Sampler:**

Site Address: **PM:**

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
13:35			F

Sample Collection

Flow Control Setting: Summa Canister ID: 12377

Summa Canister Size: Analysis:

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
13:40	-30	14:05		

Notes:

- water in sampling line T & tip of canister, water observed during sampling
- Canister reads @ -28, insufficient volume withdrawn, water interference??
- No SAMPLE TAKEN

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: -Dup

Project Name: _____ **Date:** _____

Project No: _____ **Sampler:** _____

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: _____

Time	Flow Rate	Volume	Comments

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 36491

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
	-30			

Notes: Water Observed during sampling. No sample taken

Soil Vapor Sampling Point ID: VW-1

Project Name: Nady **Date:** 12/9/09

Project No: 521000 **Sampler:** Calvin / Bryan

Site Address: _____ **PM:** Robert Foss

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments
			G

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 30819

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
14:44	-30	15:05	-4.5	15:05

Notes:

Conestoga-Rovers & Associates

SOIL VAPOR SAMPLING DATA SHEET

Soil Vapor Sampling Point ID: VW-8

Project Name: _____ **Date:** 12/9/09

Project No: _____ **Sampler:** Bryan / Calvin

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3 in

Time	Flow Rate	Volume	Comments
			14

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 36374

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
15:48	-30	16:06	-5	16:06

Notes:

Soil Vapor Sampling Point ID: VW-9

Project Name: _____ **Date:** _____

Project No: _____ **Sampler:** _____

Site Address: _____ **PM:** _____

Purge Volume

Calculated Purge Volume: 3

Time	Flow Rate	Volume	Comments
16:33			I

Sample Collection

Flow Control Setting: _____ Summa Canister ID: 2199

Summa Canister Size: _____ Analysis: _____

Time - Begin Sampling	Canister Vacuum	Time - End Sampling	Canister Vacuum	Sampling Time
16:38	-30			

Notes: Water observed during sampling. No sample.

@Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
Relinquishing signature on this document indicates that sample is being shipped in compliance with all applicable local, State, Federal, national, and international laws, regulations and ordinances of any kind. Air Toxics Limited assumes no liability with respect to the collection, handling or shipping of these samples. Relinquishing signature also indicates agreement to hold harmless, defend, and indemnify Air Toxics Limited against any claim, demand, or action, of any kind, related to the collection, handling, or shipping of samples. D.O.T. Hotline (800) 467-4922

180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager R. Foss
Collected by: (Print and Sign) B. FONG & C. NEE
Company CRA Email bfoss@craworld.com
Address 5900 Hollis St City EMERYVILLE State CA Zip 94608
Phone (510) 420-3348 Fax (510) 420-9170

Project Info:
P.O. #
Project # 521100
Project Name JOINT NAVY

Turn Around Time:
[X] Normal
[ ] Rush
specify

Lab Use Only
Pressurized by:
Date:
Pressurization Gas: N_2 He

Lab I.D.	Field Sample I.D. (Location)	Can #	Date of Collection	Time of Collection	Analyses Requested	Canister Pressure/Vacuum Initial	Final	Receipt	Final (psi)
	VW-3	34160	12/9/09	10:15	TO-15: TPHg, BTEX,	-30	-8		
	VW-4	35546		10:50	PCE, TCE, cis-1,2-DCE	-30	-5		
	VW-7	30819		15:05	Trans-1,2-DCE,	-30	-4.5		
	VW-1	34125		11:49	VC	-30	-5.5		
	VW-5	34668		12:55	ASTM D-1946;	-30	-5		
	VW-8	36374	V	16:06	Helium, O_2, CO_2	-30	-5		
					methane				

Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
[signature]	12/14/09 15:00		
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time
Relinquished by: (signature)	Date/Time	Received by: (signature)	Date/Time

Notes:
- Run all samples for analytes noted
- please include EDF

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact? Yes / No / None	Work Order #

Form 1293 rev.11

SORBENT SAMPLE COLLECTION

Air Toxics LTD.

CHAIN-OF-CUSTODY RECORD

Sample Transportation Notice
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180 BLUE RAVINE ROAD, SUITE B
FOLSOM, CA 95630-4719
(916) 985-1000 FAX (916) 985-1020

Project Manager R. Foss

Collected by: (Print and Sign) B. FONG & C. HEE

Company CRA Email bfoss@craworld.com

Address 5900 Hollis ST City EMERYVILLE State CA Zip 94608

Phone (510) 420-3348 Fax (510) 420-9170

Project Info:
P.O. #
Project # 521000
Project Name JOHN NADY

Turn Around Time:
☒ Normal
☐ Rush
specify

Circle Reporting Units:
ppbv ppmv
ug/m³ mg/m³

Lab I.D.	Field Sample I.D. (Location)	Tube # / Cartridge #	Date of Collection	Start Time	End Time	Duration	Final Volume	Analysis Requested
	VW-1	G0132388	12/9/09	12:00	12:02	2 min	150 mL	TPHss (TO-17)
	VW-7	G0128953		15:30	15:32	2 min		
	VW-5	G0128995		13:10	13:12	2 min		
	VW-4	G0128977		10:55	10:57	2 MIN		
	VW-8	G0125478		16:22	16:24	2 MIN		* Include EDF
	VW-3	G0128964		10:33	10:35	2 MIN		

Relinquished by: (signature) Date/Time 12/14/09 15:00
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Relinquished by: (signature) Date/Time
Received by: (signature) Date/Time

Pump Calibration Information
Pre-test Flow Rate:
Post-test Flow Rate:
Average Flow Rate:
Notes:

Lab Use Only	Shipper Name	Air Bill #	Temp (°C)	Condition	Custody Seals Intact? Yes No None	Work Order #

APPENDIX J

WELL SURVEY

Virgil Chavez Land Surveying
721 Tuolumne Street
Vallejo, California, 94590
(707) 553-2476 • Fax (707) 553-8698

August 26, 2009
Project No.: 2111-48

Mark Jonas
Conestoga-Rovers & Assoicates
5900 Hollis Street, Suite A
Oakland, CA 94608

Subject: Monitoring Well Survey
1137-1167 65th St.
Oakland, CA

Dear Mark:

This is to confirm that we have proceeded at your request to survey the new ground water monitoring wells located at the above referenced location. The survey was performed on August 26, 2009. The benchmark for this survey was a well monument on Powell St. under the westbound lanes of I-580. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83). Benchmark Elevation = 13.88 feet (NAVD88).

Latitude	Longitude	Northing	Easting	Elev.	Desc.
				41.12	RIM MW-3B
37.8474726	-122.2867386	2135970.60	6045796.11	40.62	TOC MW-3B
				41.35	RIM MW-3C
37.8474520	-122.2867297	2135963.06	6045798.53	41.00	TOC MW-3C
				40.78	RIM MW-7B
37.8473914	-122.2869612	2135942.29	6045731.27	40.05	TOC MW-7B
				40.75	RIM MW-7C
37.8474151	-122.2869388	2135950.78	6045737.92	40.44	TOC MW-7C

Sincerely,

Virgil D. Chavez, PLS 6323