



Alameda-Contra Costa Transit District

May 22, 2009

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Alameda County
Environmental Health

Mr. Stephen Plunkett
Alameda County Health Division
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, Second Floor
Alameda, CA 94502

Dear Mr. Plunkett:

**Subject: Downgradient Subsurface Investigation Report – May 2009
AC Transit, 1177 47th Street, Emeryville**

AC Transit hereby submits the enclosed Downgradient Subsurface Investigation Report for the AC Transit, 1177 47th Street, Emeryville, facility (Site). The report contains the results and description of activities performed by Cameron-Cole in December 2008 through March 2009 to define the extent of petroleum hydrocarbons downgradient of the Site. The field activities were performed in accordance with a workplan submitted and subsequently approved by the Alameda County Environmental Health Services Agency (ACEHS).

A total of eight soil samples and seven groundwater samples were collected from seven borings drilled downgradient of the Site. Based on the sampling results of subsurface soil and grab groundwater samples, two new groundwater monitoring wells (MW-15 and MW-16) were installed. While locating utilities prior to drilling activities, Cameron-Cole discovered an unmarked monitoring well on Doyle Street, adjacent to monitoring well MW-13. Upon field verification of well condition and construction and getting approval from your office, Cameron-Cole included this well instead of installing a new well for the AC Transit monitoring well network.

The three off-site wells were included in the quarterly groundwater sampling event conducted by Cameron-Cole in March 2009. The results of sampling these wells are contained in the Groundwater Monitoring Report, dated May 2009.

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.

If you have any questions or comments regarding the enclosed report, please call me at (510) 577-8869.

Sincerely,


Suzanne Chaewsky, P.E.
Environmental Engineer

Enclosure

Plunkett05*22*09D2a.doc

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**DOWNGRADIENT SUBSURFACE INVESTIGATION REPORT
FOR THE AC TRANSIT 1177 47TH STREET FACILITY
EMERYVILLE, CALIFORNIA**

Prepared For:

Ms. Suzanne Chaewsky
AC Transit
10626 E. 14th Street
Oakland, California 94603



Prepared By:

Cameron-Cole
101 W. Atlantic, Building 90
Alameda, California 94501




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Alameda, California 94501

May 2009


Brad Wright, RG, CHG
Principal Hydrogeologist




Dustin Metz
Geologist

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Introduction

On behalf of AC Transit, Cameron-Cole has prepared this report to present the results of a subsurface investigation performed at the AC Transit facility located at 1177 47th Street in Emeryville, California (the Site) (Figure 1), Alameda County Environmental Health Services (ACEHS) fuel leak case No. RO0000402. The Facility consists of bus maintenance buildings, a tire shop building, parking areas, a bus wash and a gasoline and diesel fueling island. Total petroleum hydrocarbon (TPH) impacts to soil and groundwater observed at the Site are associated with underground storage tanks (USTs), one documented surface diesel spill and a leaking hydraulic lift. The results of previous subsurface investigations (February 2003 and October 2003) were reported to ACEHS in the *Subsurface Investigation Report*, (Cameron-Cole, 2003a) and the *Groundwater Monitoring and Subsurface Investigation Report*, (Cameron-Cole, 2003b). In an August 23, 2006 letter to AC Transit, ACEHS requested the submittal of a Workplan for a Soil and Groundwater Investigation which presents a plan to better define the extent of TPH in soil and groundwater downgradient of the Site. On behalf of AC Transit, Cameron-Cole submitted a Workplan for a Downgradient Subsurface Investigation in September 2006 to satisfy the ACEHS directives (Cameron-Cole, 2006). The field activities were performed in December 2008. The time lapse between the workplan and field activities was the result of AC Transit negotiating an access agreement with the downgradient property owner.

The following sections of this report present details of activities conducted during the soil and groundwater investigation, investigation results, conclusions and recommendations.

Previous Site Investigations

Prior to 1999, several subsurface soil and groundwater investigations associated with USTs and one surface diesel spill were conducted at the Site. During these historic investigations, several soil borings and 14 groundwater monitor wells (MW-1 through MW-10 and W-1 through W-4) were installed at the Site (Figure 2). In 1999, it was determined that the casing in monitor well W-2 was bent at a depth of three feet below grade, preventing the lowering of a bailer for sample collection. Monitor well W-2 was subsequently abandoned. In December 1999, six USTs

located in Tank Farm No. 2 (Figure 2) were excavated and removed under oversight from the ACHCS.

Additional subsurface investigation work conducted in 2001 included the installation of soil borings SB-1a through SB-4a installed in the vicinity of former Tank Farm No. 2 and the installation of soil borings SB-5a through SB-8a located along the downgradient property boundary. After reviewing the results from samples collected from soil borings SB-1a through SB-8a, three additional monitor wells (MW-11 through MW-13) were installed at the Site. Figure 2 shows the location of the monitor wells and soil borings. Figure 2 also displays the location of facility buildings, former and existing UST locations and subsurface utilities.

During third quarter 2002 groundwater monitoring conducted at the Site, an approximate seven-foot free phase product layer was measured in monitor well MW-13. This was the first measurable product layer recorded in this monitor well. Subsequent testing conducted by AC Transit on the hydraulic lift system located in the Tire Shop located near monitor well MW-13 confirmed that one of the hydraulic hoists had leaked. The lift was immediately taken out of service. ACHCS was notified of the release by AC Transit in a letter dated November 6, 2002. On November 13, 2002, removal of the free phase product from monitor well MW-13 was initiated. Product layer removal consisted of pumping the free phase layer from the well on a daily basis. By November 20, 2002, the layer had been reduced to a sheen (< 0.01 feet).

On February 18, 2003, five soil borings (SB-1b through SB-5b) were installed in the vicinity of the Tire Building to assess the extent of the impact of hydraulic oil (Figure 1). At the request of ACHCS a sixth boring (SB-6b) was located downgradient of a 1,000-gallon UST used by the facility's emergency generator. The review of analytical results from samples collected from soil borings SB-1b through SB-5b, resulted in a second investigation focused along Doyle Street, located downgradient of the Site. Soil borings SB-7b through SB-12b were installed within Doyle Street to better define the extent of TPH downgradient of the Site. At the request of ACHCS, two additional borings SB-13b and SB-14b were installed on-site to sufficient depths to define a sand layer encountered in monitor wells W-1, W-2 and MW-13.

Downgradient Subsurface Investigation

This investigation was designed to define the extent of TPH downgradient of the Site. Monitor well MW-13, which contained the seven-foot free phase product layer, is located along the western property line of the Site and monitors groundwater immediately downgradient of the facility. During this subsurface investigation, seven borings (SB-15 through SB-21) were installed near the Emeryville Business Center located at 4701 Doyle Street, downgradient of monitor well MW-13 (Figure 2). All borings were installed for purposes of collecting soil and grab groundwater samples and to visually inspect for the presence of free phase product.

Following review of the analytical data from samples collected during soil boring installation, a network of monitor wells were located and installed.

Boring Installation

Prior to mobilizing equipment to the Site, the following activities were completed:

- The Site specific Health and Safety Plan was updated in accordance with California Occupational Health and Safety Administration requirements;
- AC Transit negotiated an access agreement with the owners of the Emeryville Business Center located at 4701 Doyle Street;
- An encroachment permit was obtained from the City of Emeryville for those soil borings and monitor wells located on Doyle Street (Appendix A);
- Underground Service Alert (USA) was notified of impending activities. Additionally, a professional underground utility locator cleared each boring location;
- Drilling Contractors were scheduled; and
- Drilling permits were obtained from Alameda County Public Works Agency (ACPWA) (Appendix A).

The borings were installed on December 17, 2008, using Geoprobe™ push technology coring equipment. During boring advancement, soil cores were continuously collected in clear acetate sleeves, which allowed the field geologist to describe the soil lithology according to the Unified Soil Classification System. A representative sample from each soil horizon was screened with a photoionization detector (PID) to determine if volatile constituents were present in the soil core. The lithologic logs for each boring are presented in Appendix B.

Laboratory soil samples were collected where evidence of contamination was observed in the field and immediately above the transmissive zone. Laboratory soil sample preparation included cutting the polyethylene sleeve for the interval to be submitted, capping each end of the sleeve with Teflon tape and tight fitting caps, assigned the sample interval a unique identification number, placing the sample in plastic bags and an ice filled cooler. The sample ID number, depth, time and date of collection and requested analysis were entered onto chain-of-custody documentation.

Grab groundwater samples were collected from the water table aquifer through PVC casing installed in the borings. Grab groundwater samples were pumped to the surface through small diameter tubing. The samples were placed in laboratory-supplied containers, assigned unique identification numbers, sealed in plastic bags and placed in an ice filled cooler. The sample ID number, depth, time and date of collection and requested analysis was entered onto chain-of-custody documentation.

Once the total depth of the soil boring was reached and all samples were collected, the boring was backfilled with neat cement pumped into the borehole from the bottom up.

Drill cuttings and fluids generated during soil boring installation were contained in appropriate labeled containers, moved to the Site's drummed waste area and disposed of in accordance with all regulatory requirements.

Laboratory Analysis

All samples were submitted to Accutest Laboratories for analysis by USEPA Method 8015 modified for extractable fuel scan with silica gel cleanup and for benzene, toluene, ethyl benzene, xylenes and fuel oxygenates by USEPA Method 8260B.

Investigation Results

A total of eight soil samples and seven groundwater samples were collected from seven borings and submitted for laboratory analysis. There was no visual evidence of sheen or free phase hydrocarbons detected in any of the borings installed in December 2008. One soil sample and one groundwater sample were collected from each boring with the exception of SB-18, where a hydrocarbon odor at approximately ten feet below ground surface (bgs) prompted the collection of an additional soil sample.

Lithology

The lithology encountered during the installation of borings SB-15 through SB-21 is consistent with that encountered during the installation of monitor wells MW-12 and MW-13, which are located in the vicinity of this investigation. The Site is underlain by clayey sand to depths of three to six feet bgs, where a silty clay layer is commonly encountered. Very moist to saturated conditions are encountered below the silty clay layer at depths of 17 to 25 feet bgs in more transmissive clayey sand to silty sand layers.

A geologic cross-section incorporating lithologic data from monitor wells installed across the Site is presented as Figure 3. The trace of cross-section A-A' has been oriented to follow the general direction of groundwater flow observed across the Site. Underlying the engineering fill, the lithology consists primarily of silty clays with discontinuous sand and gravel layers. A continuous core of the lithology was not collected in the monitor wells that were installed in 1987 and 1989. In these wells, approximately 1.5 feet of core was collected every five feet during well installation. Therefore, sand and gravel layers may be present in these wells at intervals not logged by the on-site geologist at the time of their installation.

Laboratory Results

Certified analytical reports for all grab groundwater and soil samples analyzed during this investigation are presented in Appendix C and the results are summarized in Table 1 and Table 2. As depicted in Table 1, gasoline was only detected in groundwater samples from SB-20 and SB-21 (59.5 micrograms per liter ($\mu\text{g/L}$) and 65.7 $\mu\text{g/L}$, respectively). Both concentrations are below the Environmental Screening Level (ESL) for gasoline (100 $\mu\text{g/L}$). Toluene was detected in groundwater samples from each boring location with the exception of SB-15, but all concentrations were below the ESL (40 $\mu\text{g/L}$). With the exception of SB-19, each groundwater sample contained concentrations of Methyl Tert Butyl Ether (MTBE) that exceeded the ESL (5 $\mu\text{g/L}$). These results are not unusual as MTBE tends to migrate downgradient faster than petroleum hydrocarbons.

Table 2 presents analytical results for soil samples. As depicted, low levels of gasoline and diesel (102 $\mu\text{g/kg}$ and 22.2 mg/kg , respectively) were detected at a relatively shallow depth (10 feet) in boring SB-18. Boring SB-18 is the furthest downgradient boring and no analytes were detected in any other soil samples. The low levels of gasoline and diesel in SB-18 are most likely due to previous activities on the 4701 Doyle Street property.

Monitor Well Installation

Laboratory analysis of samples collected during the investigation indicated that petroleum hydrocarbons as gasoline, toluene and MTBE are present in the groundwater. Analytical results from grab groundwater samples were used to determine the placement of wells to monitor the downgradient plume boundary (Figure 2). Two new wells, MW-15 and MW-16, were installed on February 19, 2009.

Monitor wells were installed using hollow-stem auger drilling equipment. During drilling a continuous core was collected to confirm consistency with the lithologic logs generated during soil boring installation. The wells were constructed with two-inch diameter PVC casing and five-

foot screened intervals. To insure interception of any floating hydrocarbons, the screen extends above first encountered groundwater. The sand filter-pack extends approximately one foot above the screened interval. A three-foot thick bentonite bridge was established on top of the filter-pack and the remaining annular space was sealed with a mix of cement with 5% bentonite. Wells are protected with a traffic rated vault box set to grade and locking cap.

Prior to sample collection, the new monitor wells were developed by surging the screened interval to promote flow through the filterpack and purging of approximately ten casing volumes of groundwater.

While locating utilities prior to drilling activities, an unmarked monitor well was discovered on Doyle Street, adjacent to monitor well MW-13. The well was most likely associated with an inactive Pacific Gas and Electric Company materials facility at 4525 Hollis Street. The Department of Water Resources does not have a well completion form for the unmarked monitor well. A camera was deployed down the well to determine the screened interval and to inspect the condition of the PVC. The well was in good condition and had a total depth of 22.3 feet bgs with a screen to approximately 13 feet bgs. The well construction and location are ideal for monitoring the plume boundary downgradient of the Site. In lieu of installing an additional well at the same location, the unmarked well was named MW-14 and incorporated into the AC Transit monitor well network following a telephone conversation and January 15, 2009 email correspondence with Steven Plunkett of ACEHS.

Quarterly Groundwater Monitoring Activities

Work performed during the March 2009 monitoring event included measuring depth to water and collecting ground water samples from all monitor wells. The procedures and results of this event are discussed as part of the First Quarter 2009 Groundwater Monitoring Report submitted May 2009.

Groundwater elevation contours from March 2009 are included as Figure 4 of this report. As shown, groundwater flow is west at a gradient of approximately 0.028 feet per foot. Monitor well

MW-13 was the only well with a free-phase hydrocarbon layer detected. The free-phase hydrocarbon layer in MW-13 measure 0.36 feet.

Table 3 of the quarterly report presents historic and first quarter 2009 groundwater analytical results. The first quarter sampling results are consistent with the soil and groundwater investigation data contained in the report. Low levels of MTBE were detected in all three of the new monitor wells. Monitor well MW-16 also had a low detection of gasoline (62.9 µg/L). No other compounds were reported above detection limits in monitor wells MW-14, MW-15 or MW-16 during first quarter 2009.

Conclusions/Recommendations

The results for grab groundwater samples collected during soil boring installation indicated concentrations of MTBE above ESLs. No other analytes were detected above ESLs in soil or groundwater samples. Subsequent monitor well installation and sampling confirmed the presence of MTBE downgradient of the Site. These results suggest that components of the fuel and hydraulic oil observed in MW-13 may have begun to migrate downgradient of the Site.

Monthly over purging of MW-13 is scheduled to remove the free-phase hydrocarbon layer. Quarterly groundwater monitoring of monitor wells MW-11 through MW-16 is scheduled for June 2009. This event will include site-wide depth to groundwater level measurements, including inspection of each monitor well for free-phase hydrocarbon. AC Transit will evaluate potential remedial alternatives to address the concentrations of chemicals detected above cleanup objectives in groundwater. The results of the remedial alternatives evaluation will be submitted to ACHES.

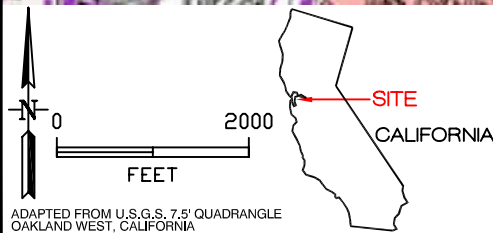
References

Cameron-Cole 2003a, Subsurface Investigation Report for the AC Transit Facility Located at 1177 47th Street, Emeryville, California, May 2003

Cameron-Cole 2003b, Groundwater Monitoring and Subsurface Investigation Report for the AC Transit 1177 47th Street Facility, Emeryville California, January 2003

Cameron-Cole 2006, Workplan for Downgradient Subsurface Investigation at the AC Transit 1177 47th Street Facility, Emeryville California, January 2006

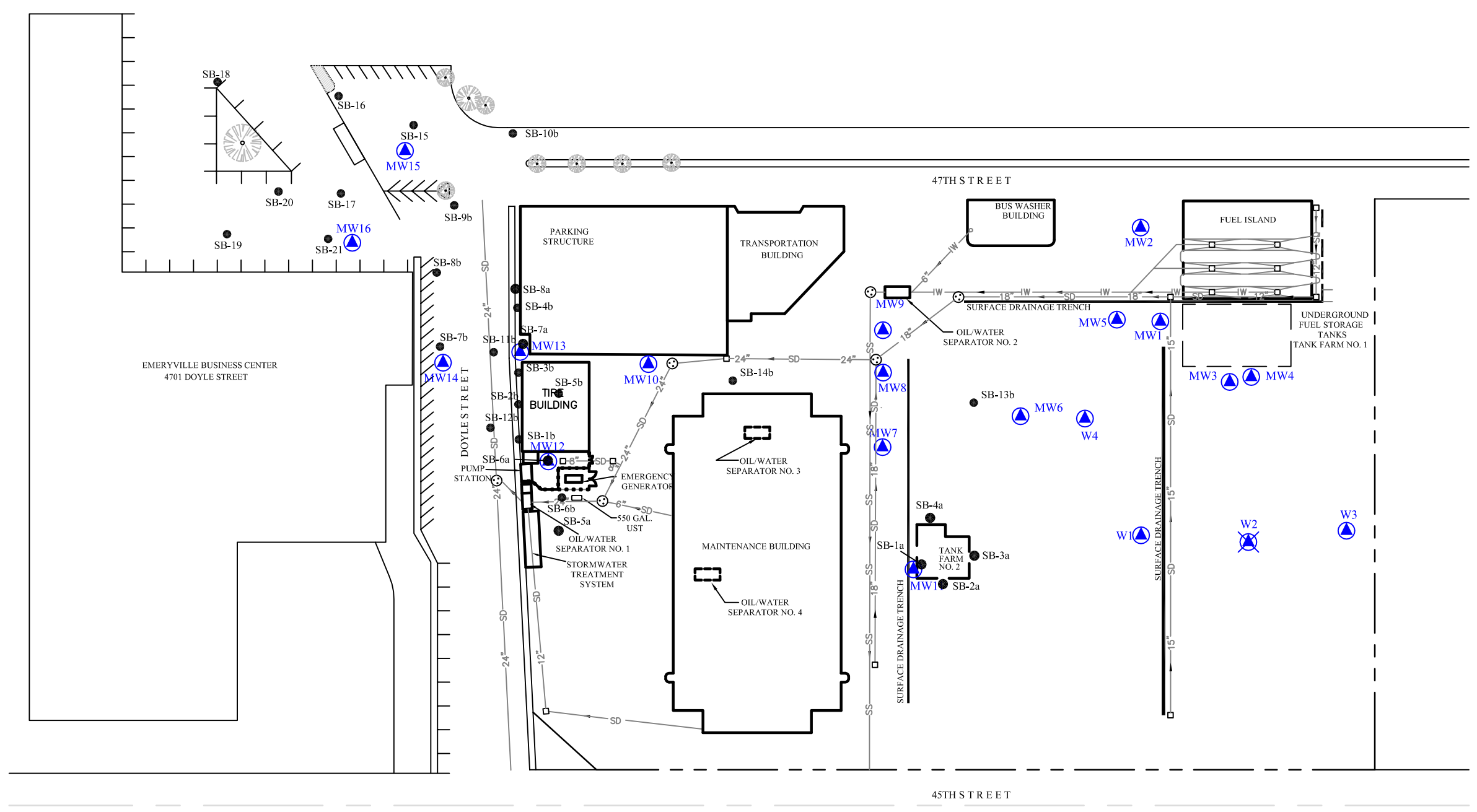
FIGURES



ADAPTED FROM U.S.G.S. 7.5' QUADRANGLE
OAKLAND WEST, CALIFORNIA

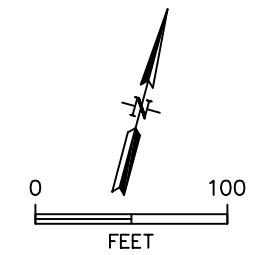


FIGURE 1		
SITE LOCATION MAP AC TRANSIT 1177 47th STREET EMERYVILLE, CALIFORNIA		
SCALE:	DATE:	DWG NO.
1" = 2000'	4/24/03	2015-LOCMAP



LEGEND

	MANHOLE
	CATCH BASIN
	MONITOR WELL
	ABANDONED MONITOR WELL
	PROPOSED MONITOR WELL
	SOIL BORING
	PROPOSED SOIL BORING
	STORM DRAIN PIPELINE
	SANITARY SEWER PIPELINE
	INDUSTRIAL WASTE PIPELINE
	CHAIN LINK FENCE

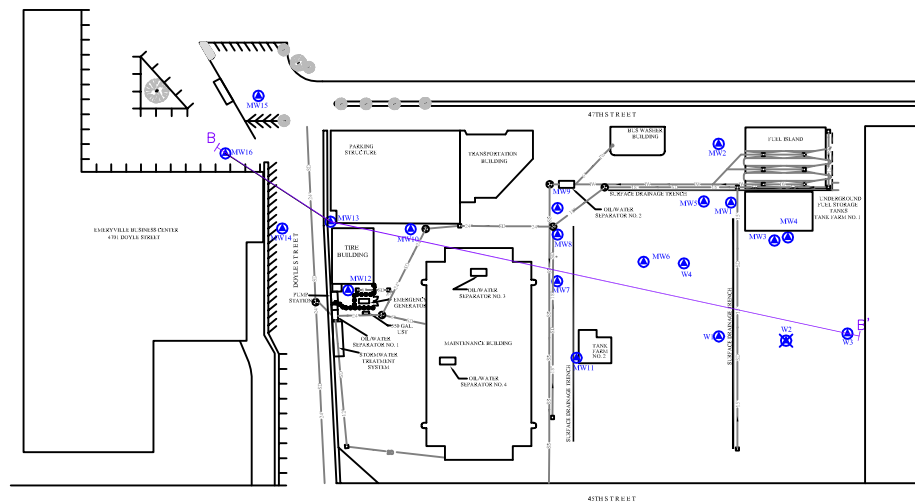
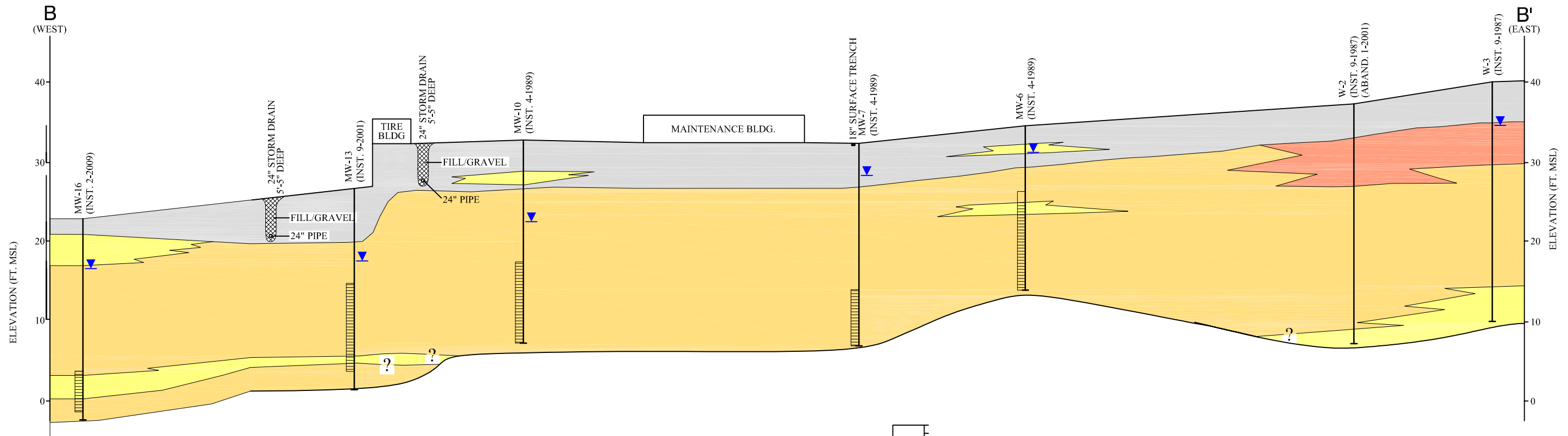


BY	DATE
DRAWN SPS	3/4/09
CHECKED	
APPROVED	
APPROVED	
APPROVED	

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 FAX: 510-337-3994
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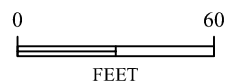
FIGURE 2
SOIL BORING AND
MONITOR WELL LOCATIONS
AC TRANSIT, EMERYVILLE FACILITY - OAKLAND, CA

SCALE: 1" = 100' DWG. NO.: 2030-001A



LEGEND

- FILL
- CLAY - CL/CH
- SILT - ML
- SAND/GRAVEL - SM, SP, SW, GM, GP
- GROUNDWATER LEVEL (3/24/09)
- MONITORING WELL SCREEN INTERVAL



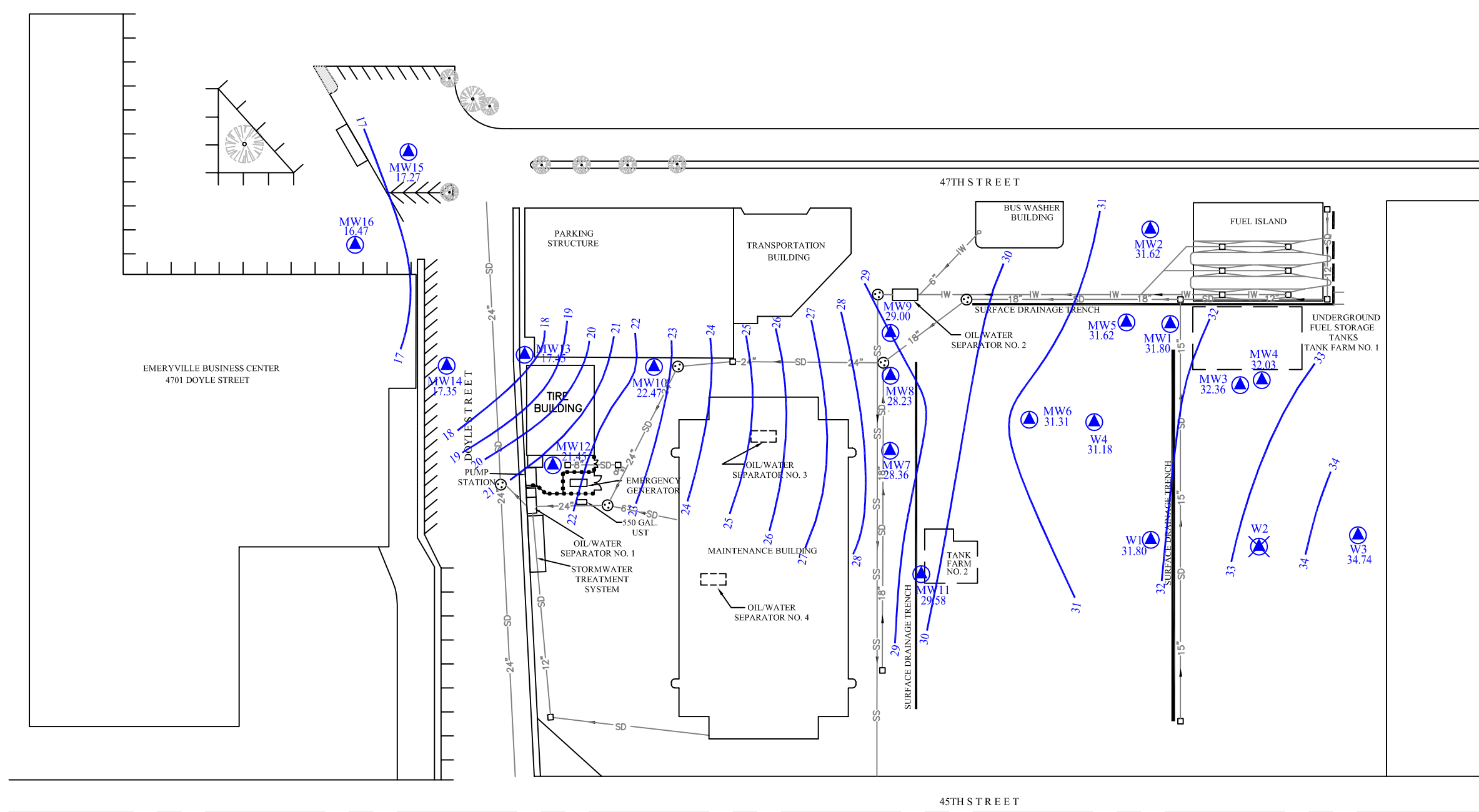
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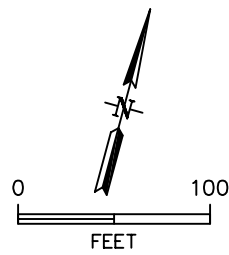
FIGURE 3

GEOLOGIC CROSS SECTION B - B'
AC TRANSIT, EMERYVILLE FACILITY - OAKLAND, CA

SCALE: AS NOTED	DWG. NO.: 2030-003A
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LEGEND	
	MANHOLE
	CATCH BASIN
	MONITOR WELL
	ABANDONED MONITOR WELL
	POTENTIOMETRIC SURFACE ELEVATION
	POTENTIOMETRIC SURFACE CONTOUR
	PROPOSED SOIL BORING
	STORM DRAIN PIPELINE
	SANITARY SEWER PIPELINE
	INDUSTRIAL WASTE PIPELINE
	CHAIN LINK FENCE



BY	DATE
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APPROVED	

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FIGURE 4
POTENTIOMETRIC SURFACE CONTOUR MAP
MARCH 24, 2009
AC TRANSIT, EMERYVILLE FACILITY - OAKLAND, CA

SCALE: 1" = 100'	DWG. NO.: 2030-002A
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TABLES

TABLE 1
GRAB GROUNDWATER ANALYTICAL RESULTS FOR SELECTED ANALYTES
AC Transit Facility
1177 47th Street, Emeryville, California

Sample ID	Media Description	Diesel Concentration mg/L	Gasoline Concentration ug/L	Motor Oil Concentration mg/L	Benzene Concentration ug/L	Toluene Concentration ug/L	Ethyl Benzene Concentration ug/L	Total Xylenes Concentrations ug/L	MTBE Concentrations ug/L
		<i>ESL = 100</i>	<i>ESL = 100</i>	<i>ESL = 100</i>	<i>ESL = 1</i>	<i>ESL = 40</i>	<i>ESL = 30</i>	<i>ESL = 20</i>	<i>ESL = 5</i>
SB-15	Groundwater	<0.099	<50	<0.2	<1.0	<1.0	<1.0	<2.0	6.2
SB-16	Groundwater	<0.10	<50	<0.728	<1.0	1.2	<1.0	<2.0	9.1
SB-17	Groundwater	<0.10	<50	<0.20	<1.0	1.5	<1.0	<2.0	10.1
SB-18	Groundwater	<0.10	<50	<0.20	<1.0	1.4	<1.0	<2.0	5.8
SB-19	Groundwater	<0.10	<50	<0.20	<1.0	1.3	<1.0	<2.0	2.7
SB-20	Groundwater	<0.11	59.5	<0.20	<1.0	1.5	<1.0	<2.0	13.2
SB-21	Groundwater	<0.11	65.7	<0.22	<1.0	1.9	<1.0	<2.0	8.3

Notes:
ESL: Environmental Scening Level

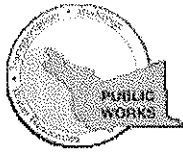
TABLE 2
SOIL ANALYTICAL RESULTS FOR SELECTED ANALYTES
AC Transit Facility
1177, 47th Street, Emeryville, California

Sample ID	Media Description	Depth (ft)	Diesel	Gasoline	Motor Oil	Benzene	Toluene	Ethyl Benzene	Total Xylenes	MTBE
			Concentration mg/kg	Concentration ug/kg	Concentration mg/kg	Concentration ug/kg	Concentration ug/kg	Concentration ug/kg	Concentrations ug/kg	Concentrations ug/kg
			<i>ESL = 83</i>	<i>ESL = 83,000</i>	<i>ESL = 83</i>	<i>ESL = 44</i>	<i>ESL = 2900</i>	<i>ESL = 3300</i>	<i>ESL = 2300</i>	<i>ESL = 23</i>
SB-15 @ 20.5	Soil	20.5-21	<10	<100	<20	<5	<5	<5	<10	<5
SB-16 @17.5	Soil	17.5-18	<10	<100	<20	<5	<5	<5	<10	<5
SB-17 @ 22.5	Soil	22.5-23	<10	<99	<20	<5	<5	<5	<9.9	<5
SB-18 @ 10	Soil	10-10.5	22.2	102	<20	<5	<5	<5	<9.9	<5
SB-18 @ 19.5	Soil	19.5-20	<10	<98	<20	<4.9	<4.9	<4.9	<9.8	<4.9
SB-19 @ 19	Soil	19-19.5	<10	<99	<20	<4.9	<4.9	<4.9	<9.9	<4.9
SB-20 @ 22.5	Soil	22.5-23	<10	<99	<20	<4.9	<4.9	<4.9	<9.9	<4.9
SB-21 @ 22	Soil	21.5-22	<10	<99	<20	<5	<5	<5	<9.9	<5

Notes:
ESL: Environmental Screening Level
NS: Not Sampled

APPENDIX A
DRILLING 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: 02/10/2009 By jamesy

Permit Numbers: W2009-0140 to W2009-0141
Permits Valid from 02/17/2009 to 02/19/2009

Application Id: 1233880878802
Site Location: Doyle St and 47th, Emeryville, CA
Project Start Date: 02/17/2009
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

City of Project Site:Emeryville

Completion Date:02/19/2009

Applicant: Cameron-Cole LLC - Brad Wright
101 W Atlantic Rd., Alameda, CA 94501
Property Owner: City of Emeryville
1333 Park Avenue, Emeryville, CA 94608
Client: ** same as Property Owner **

Phone: 510-769-3563

Phone: 510-596-4300

	Total Due:	\$690.00
Receipt Number: WR2009-0055	Total Amount Paid:	\$690.00
Payer Name : Cameron-Cole LLC	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: WDC - Lic #: 283326 - Method: auger

Work Total: \$690.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2009-0140	02/10/2009	05/18/2009	MW-15	6.50 in.	2.00 in.	15.00 ft	25.00 ft
W2009-0141	02/10/2009	05/18/2009	MW-16	6.50 in.	2.00 in.	15.00 ft	25.00 ft

Specific Work Permit Conditions

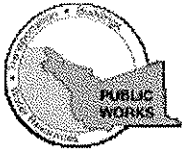
1. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from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

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

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

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

Alameda County Public Works Agency - Water Resources Well Permit



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

Inspection Scheduled on 12/15/08
Do not have to wait

Application Approved on: 12/02/2008 By jamesy

Permit Numbers: W2008-0900
Permits Valid from 12/17/2008 to 12/17/2008

Application Id: 1228166499911
Site Location: 4701 Doyle St, Emeryville, CA 94608
Project Start Date: 12/02/2008
Requested Inspection: 12/02/2008
Scheduled Inspection: 12/03/2008 at 8:30 AM

City of Project Site: Emeryville
Completion Date: 12/15/2008

Extension Start Date: 12/17/2008
Extension Count: 1
wells@acpwa.org WHEN COMPLETED or call at (510) 670-6633, to confirm.
Extension End Date: 12/17/2008
Extended By: jamesy

Applicant: CAMERON - COLE - Brad Wright
101 W Atlantic Avenue, Alameda, CA 94501
Property Owner: Fordham Properties Inc.
5835 Doyle St. Ste 101, Emeryville, CA 94608
Client: ** same as Property Owner **

Phone: 510-769-3563
Phone: 510-547-7177

Receipt Number: WR2008-0430 Total Due: \$230.00
Payer Name : Brad Wright Total Amount Paid: \$230.00
Paid By: CHECK PAID IN FULL

Works Requesting Permits:

Borehole(s) for Investigation-Geotechnical Study/CPT's - 7 Boreholes
Driller: WDC Exploration and Wells - Lic #: 283326 - Method: DP

Work Total: \$230.00

Specifications

Table with 6 columns: Permit Number, Issued Dt, Expire Dt, # Boreholes, Hole Diam, Max Depth. Row 1: W2008-0900, 12/02/2008, 03/02/2009, 7, 2.00 in., 30.00 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.

Alameda County Public Works Agency - Water Resources Well Permit

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

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

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

8. No Inspector Assigned to this site.

Applicant shall contact this office by email at wells@acpwa.org and certify in writing that work was completed and according to County Standards within 5 working days after the completion of work.



City of Emeryville • Department of Public Works
Encroachment Permit

APPLICANT AC Transit
 CONTACT PERSON Brad Wright
 ADDRESS 101 W. Atlantic Ave Bldg 90
 PHONE (510) 767-3563 Alameda Ca
 FAX (510) 337-3994 94501

OWNER/DEVELOPER OF FACILITIES
AC Transit
 ADDRESS 10626 International Blvd. Oakland, CA
 PHONE (510) 577-8869 94603
 FAX (510) 577-8859

CONTRACTOR DOING WORK WDC
Exploration and Wells
 CONTACT PERSON Chris Tatum
 ADDRESS 1961 Moecker Ave. Richmond CA 94804 PHONE (510) 236-6282 FAX (510) 225-2458
 LICENSE NO. 283326 CLASS C-57

Yes No CURRENT CITY BUSINESS LICENSE ON FILE
 Yes No PROVIDE PROOF OF INSURANCE

EST. START DATE 12/9/08 EST. COMPLETION DATE 12/9/08 EST. COST IN CITY R/W \$1,000

LOCATION OF WORK Street Parking lot located at the intersection of Doyle St. and 47st.
 CHECK ALL THAT APPLY

- Traffic Control Survey Sidewalk Detour Dumpster Temporary No Parking
- Private Facilities on Public Right of Way Construction Sidewalk Driveway Approach Curb & Gutter Pedestrian Ramp
- Water Service Gas Service Electric Service Roof Drain Utility Maintenance Fence Excavation Obstruction
- Access Road Monitoring Well Sewer Lateral Storm Drain Crane Block Party

FULLY DESCRIBE PROPOSED WORK WITHIN CITY RIGHT-OF-WAY (additional space on reverse if needed): Attach 3 complete sets of plans 8 1/2 X 11, if applicable.

Install 2 two-inch diameter soil borings to a depth of 30 feet for the collection of soil and groundwater samples. Borings will be backfilled and capped with asphalt. Scope of work will be completed in one day.

Permit No. <u>RW081201</u> Date <u>12-5-08</u>
Permit Admin. Fee <u>\$155</u>
Permit Inspection Deposit (2 hr. min.) _____
Cost Recovery Estimate _____
Required Security Deposit:
<input checked="" type="checkbox"/> \$1,000 cash
<input type="checkbox"/> \$10,000 Bond, Bond # _____
<input type="checkbox"/> 100% Perf. Bond, Bond Value _____ Bond # _____
Total Payment Required <u>\$1,155</u>
Received: <u>20</u> Date <u>12/5/08</u>
Receipt # <u>03-9192</u>
Failure to obtain approval of a Final Inspection of the work covered by this Encroachment Permit within one (1) year of the estimated completion date shall result in the loss of the security deposit which shall be retained by the City of Emeryville.

I hereby agree to protect and indemnify the City of Emeryville and hold it harmless in every way from all claim or suits for injury or damage to persons or property as set forth in the Standard Provisions. I agree not to begin construction until all materials to be used are on hand; to perform all work in accordance with the plans submitted (if any), the Standard Provisions to Encroachment Permit, and all applicable Special Conditions of Approval, and to pay all inspection and engineering costs in addition to those paid at the time of issuance of this permit. I further agree to complete the work to the satisfaction of the City Engineer and if for any reason the City of Emeryville is required to complete this work, I will pay all costs for such work.

Applicant Signature Brad Wright Date 11-20-08

After final inspection is approved, please contact the Public Works Department at 510-596-4330 to determine final cost, and for final payment or reimbursement of deposit.

FOR CITY USE ONLY

○ Temporary Permit # _____ days

○ Long Term Permit

The following documents are attached and incorporated into this permit and have been given to the applicant:

- Standard Provisions to Encroachment Permit Special Conditions of Approval
 City Standard Details (List Details) Handout, Urban Runoff BMP's

Other

Remarks _____

- 48 HOUR NOTICE PRIOR TO START OF WORK,
 PROVIDE CONSTRUCTION SCHEDULE 5 DAYS PRIOR TO START OF WORK
 AS-BUILT PLANS REQUIRED
 PLEASE CALL FOR INSPECTION AT 510-596-4333
 PLEASE NOTIFY POLICE (510-596-3700) AND FIRE (510-596-3750) 24 HOURS IN ADVANCE.

This permit is void unless the work is completed before 30 Dec, 2008

This permit is to be strictly construed and no other work than is specifically mentioned is hereby authorized.

APPROVED [Signature] TITLE AWD DATE 21 Nov 08

FINAL INSPECTION APPROVED _____ TITLE _____ DATE _____

APPENDIX B
SOIL BORING LOGS



SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-15

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

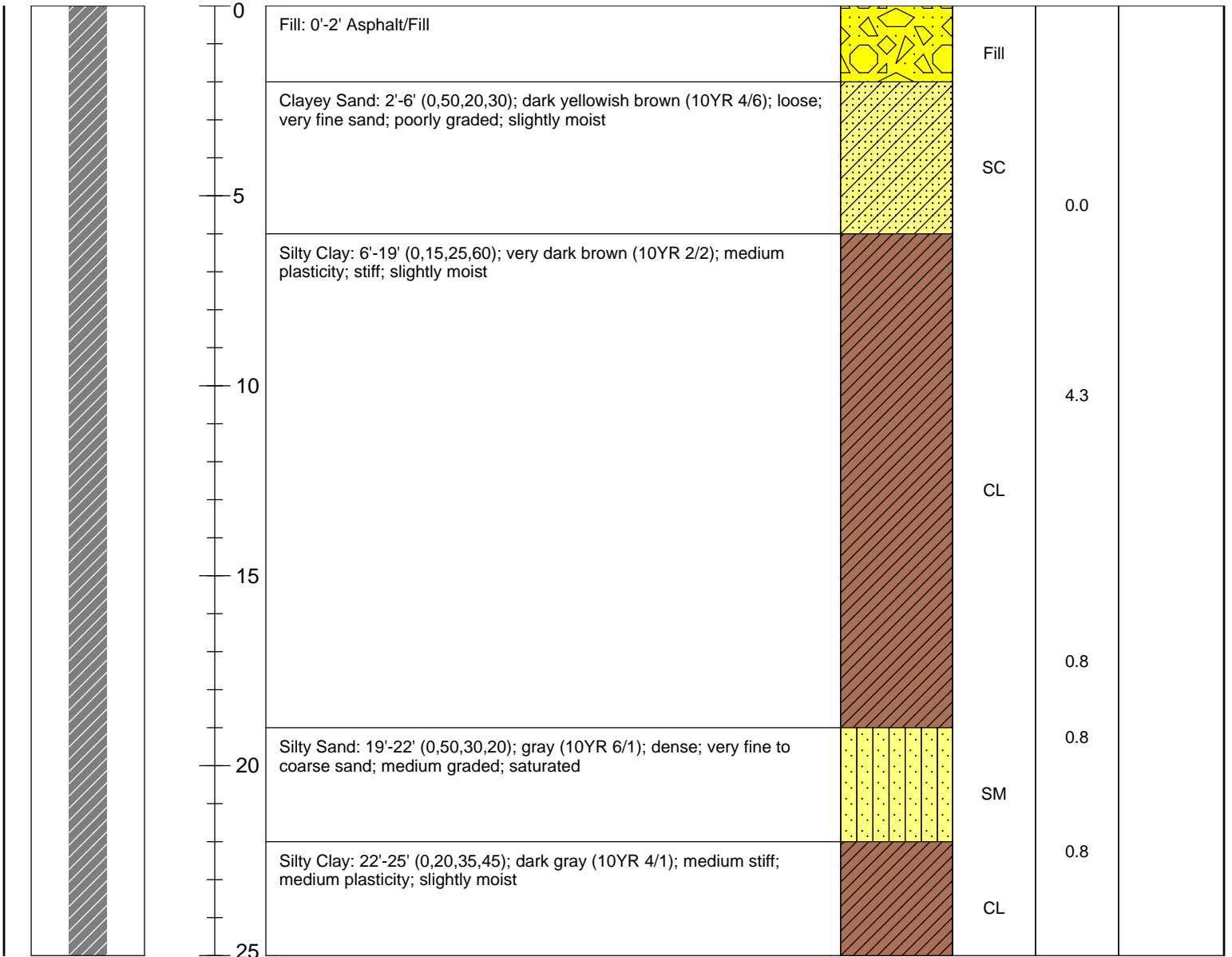
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-16

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

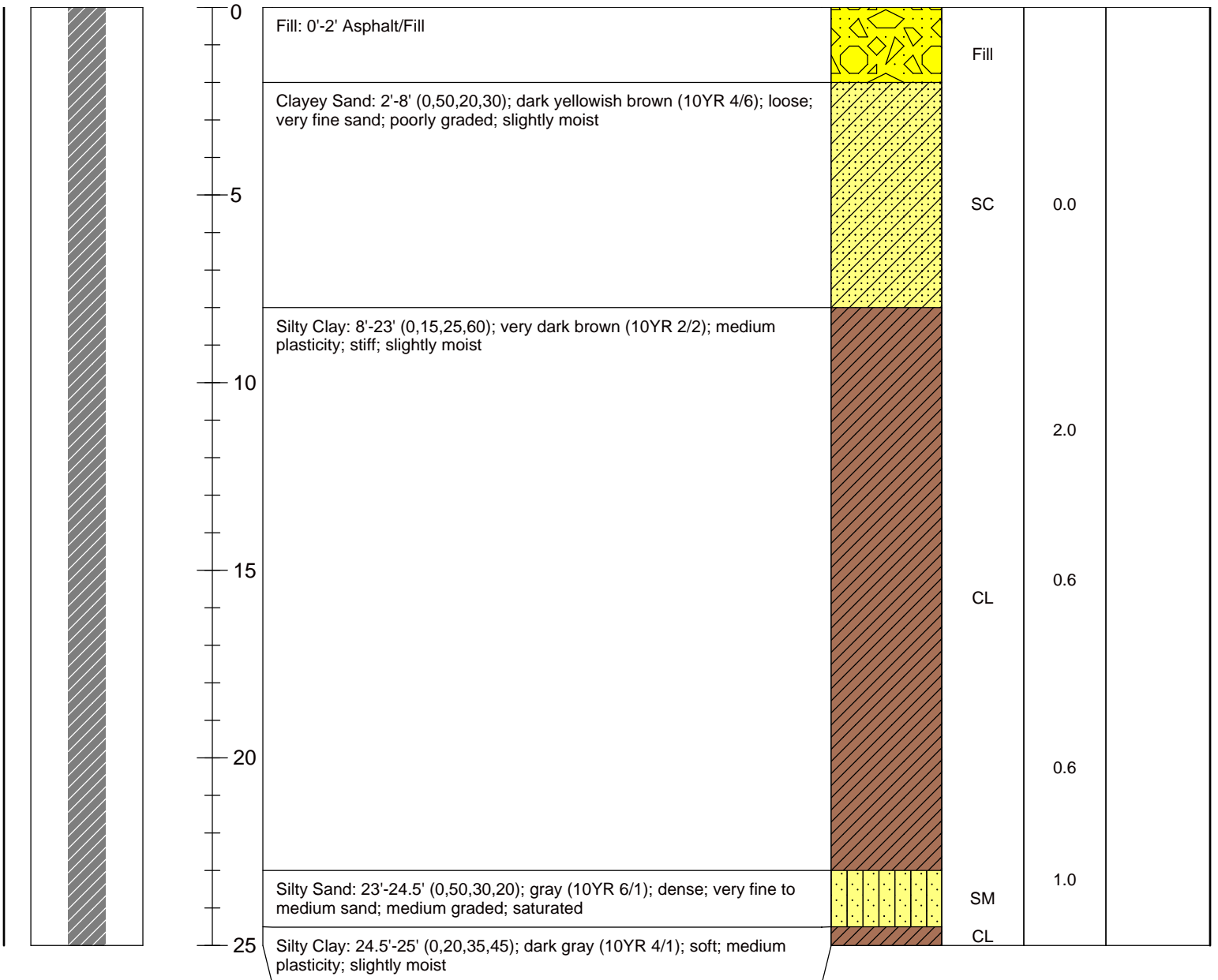
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-17

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

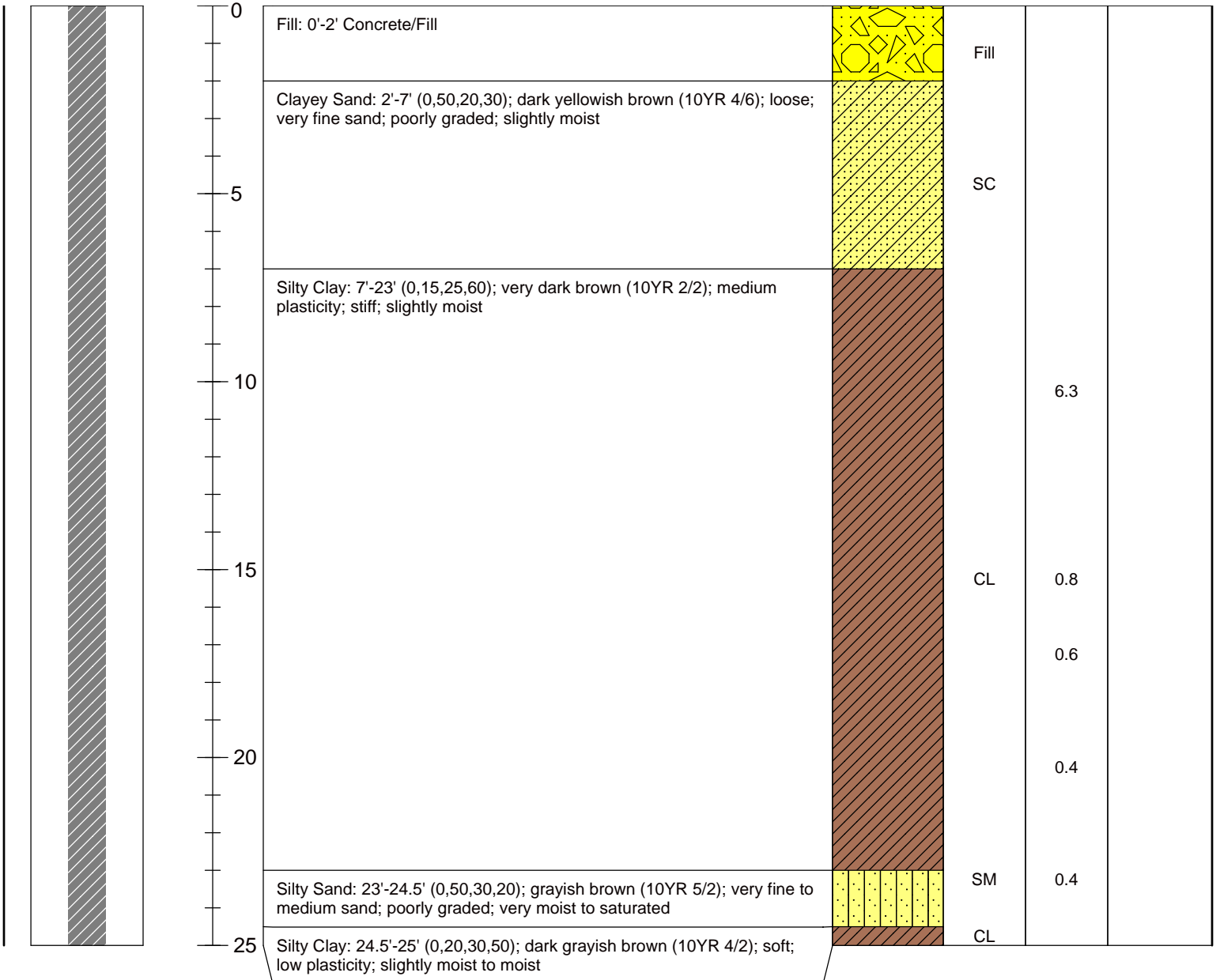
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-18

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

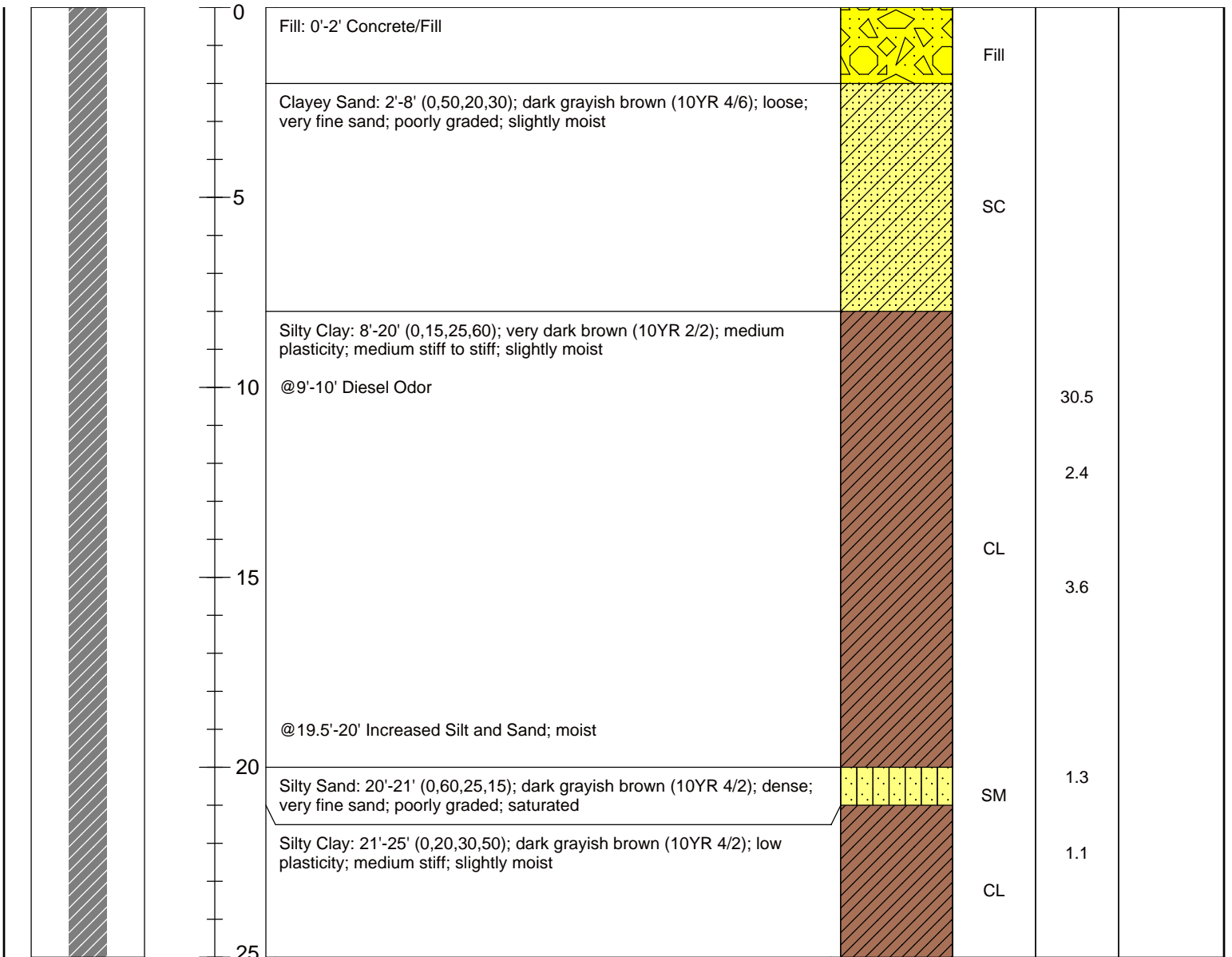
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-19

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

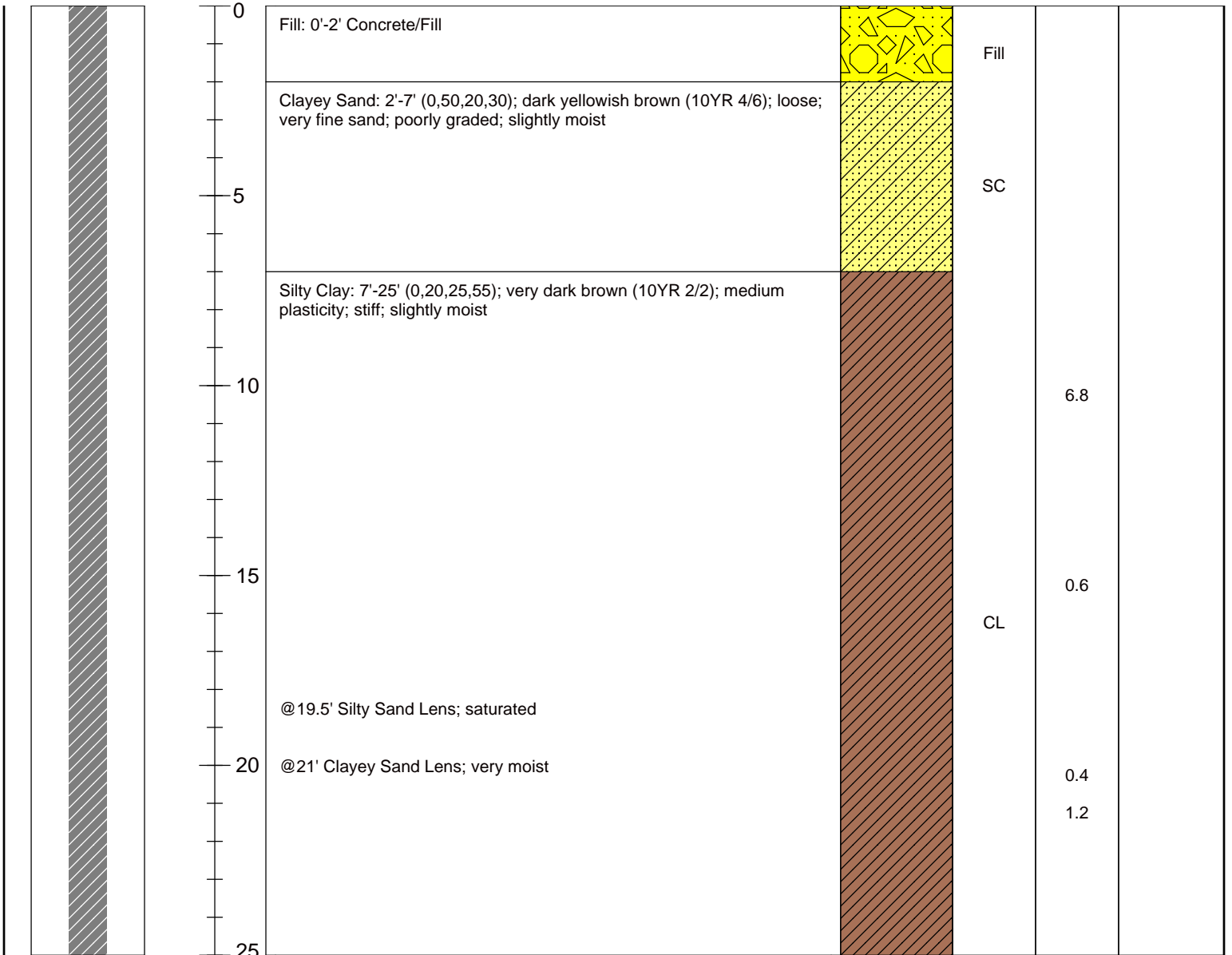
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-20

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

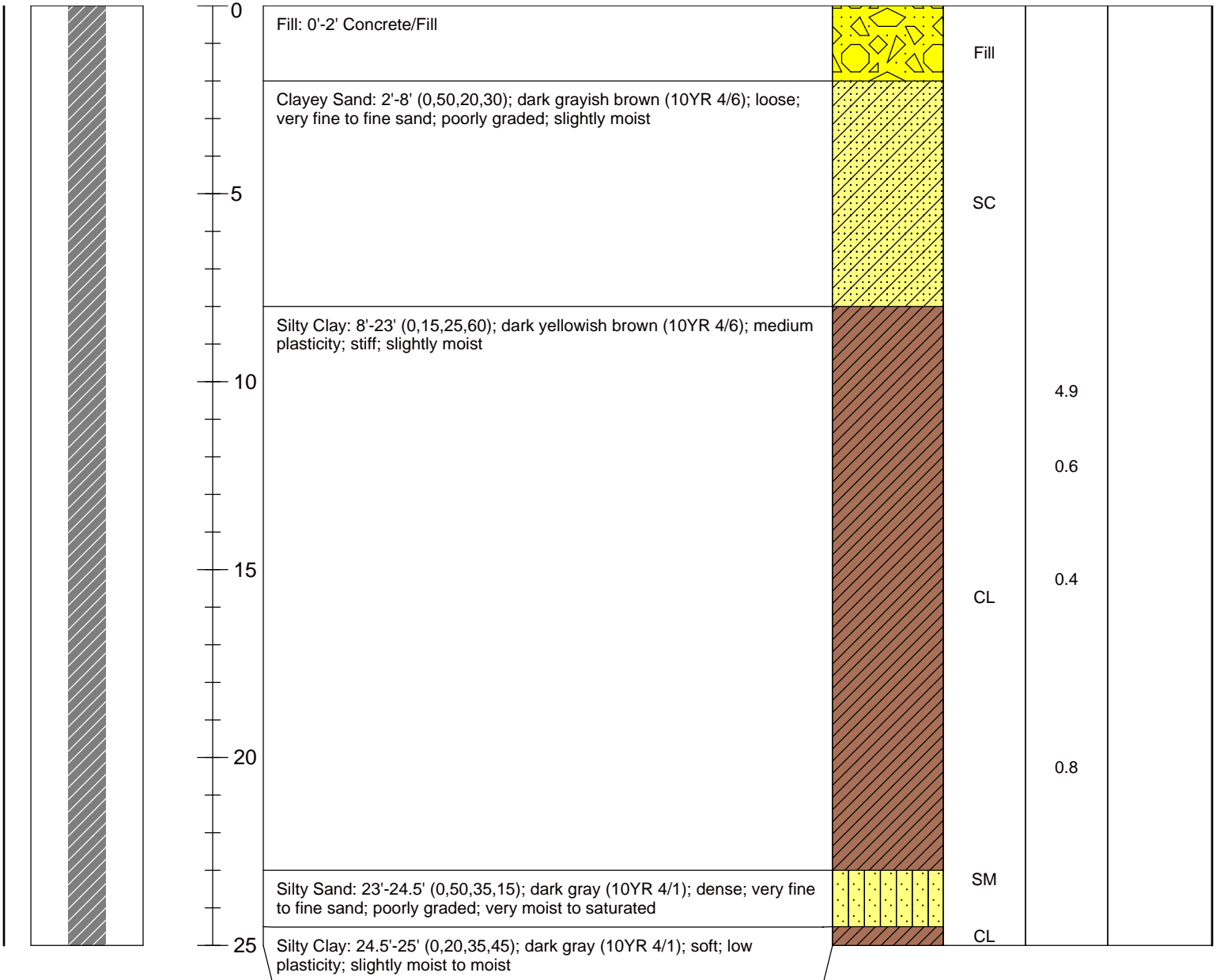
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

SB-21

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2008-0900

DRILLING COMPANY:
WDC

DRILL METHOD:
Direct Push

BOREHOLE / WELL
CASING DIA (IN):

SAMPLE INTERVAL:

DATE:
12/17/08

GROUND SURFACE ELEV.
(FT MSL):

TOTAL DEPTH (FT):
25'

WATER DEPTH (FT):
N/A

PROJECT NUMBER:
2030

SCREENED INTERVAL
(FT): N/A

SCREEN SIZE (IN):
N/A

CASING INTERVAL (FT):
N/A

TOP OF CASING ELEV
(FT MSL): N/A

LOGGED BY:
Dustin Metz

SAND INTERVAL (FT):
N/A

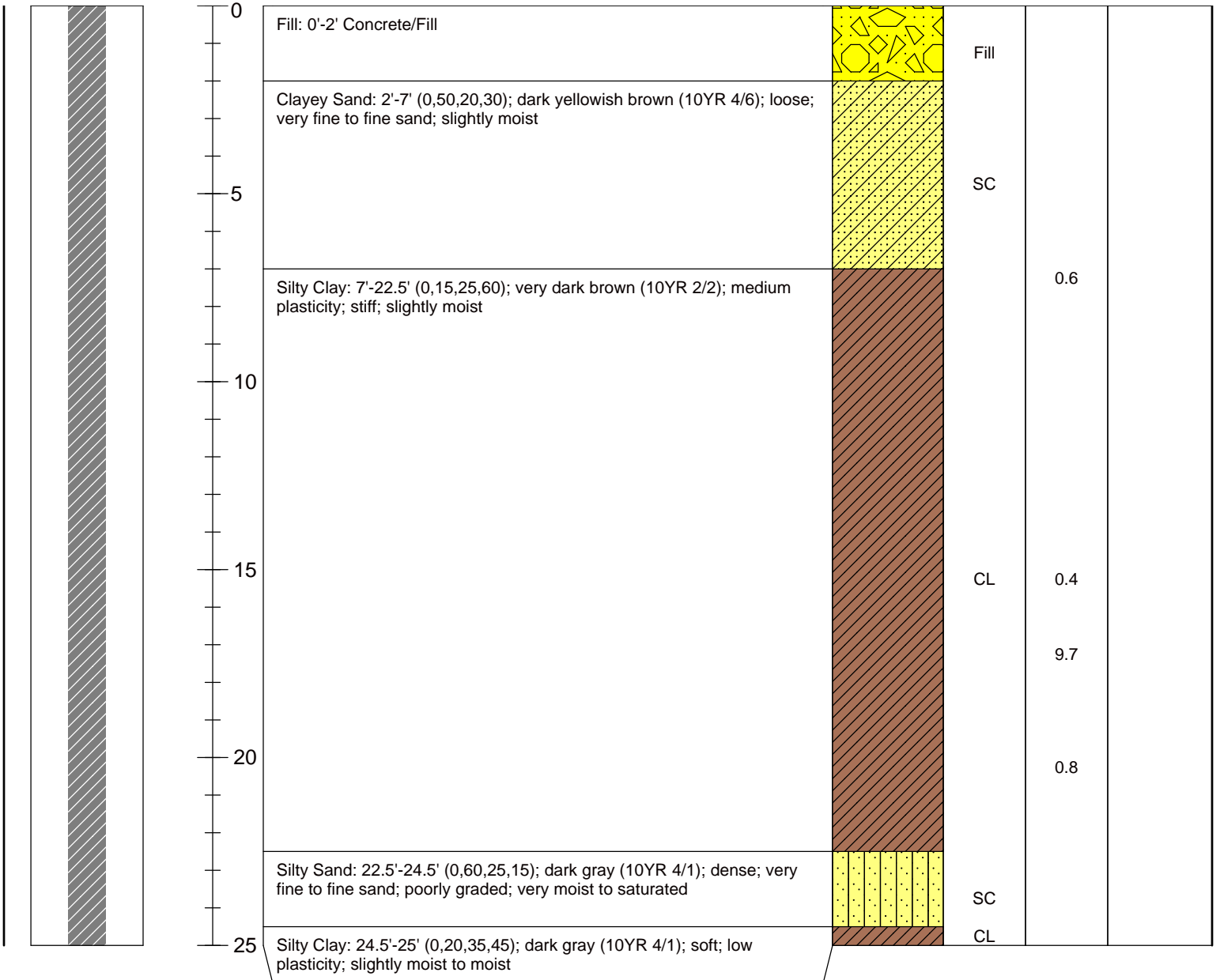
BENTONITE INTERVAL (FT):
N/A

GROUT INTERVAL (FT):
0-25

SURFACE COMPLETION
Concrete

END CAP
N/A

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
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SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

MW-15

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2009-0140

DRILLING COMPANY:
WDC

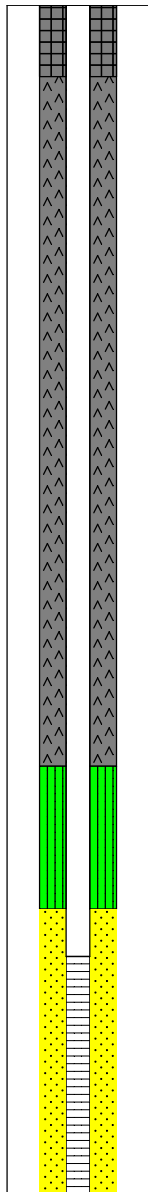
DRILL METHOD:
Auger

BOREHOLE / WELL
CASING DIA (IN): 6.5 / 2

SAMPLE INTERVAL:
Continuous

DATE: 02/19/2009	GROUND SURFACE ELEV. (FT MSL): N/A	TOTAL DEPTH (FT): 25	WATER DEPTH (FT): 21	PROJECT NUMBER: 2030
SCREENED INTERVAL (FT): 20-25	SCREEN SIZE (IN): 0.020 SCH 40 PVC	CASING INTERVAL (FT): 0-25	TOP OF CASING ELEV (FT MSL): N/A	LOGGED BY: Dustin Metz
SAND INTERVAL (FT): 19-25 8/20 Mesh	BENTONITE INTERVAL (FT): 16-19	GROUT INTERVAL (FT): 0-16 Portland w/ 5% Bentonite	SURFACE COMPLETION Traffic Rated Vault box	END CAP 25'

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
-----------------	------------	-------------	-------------------	-----------	---------



0	Fill: 0'-2' Asphalt/Fill		Fill		
	CLAYEY SAND: 2'-7' (0,50,20,30); dark yellow brown (10YR 4/6); loose; very fine to medium sand; poorly graded; slightly moist		SC		
5					
	SILTY CLAY: 7'-21.5' (0,15,25,60); very dark brown (10YR 2/2); medium plasticity; stiff; slightly moist			2.8	
10	@9' Clayey Sand Lens; moist @10'-11' Strong Hydrocarbon odor; staining				43
15			CL	2.7	
20	@19.5' Clayey Sand Lens				3.2
	SILTY SAND: 21.5'-24.5' (0,60,25,15); gray (10YR 6/1); dense; very fine to medium sand; medium graded; saturated		SM		
25	SILTY CLAY: 24.5'-25' (0,20,35,45); dark gray (10YR 4/1); medium stiff; medium plasticity; slightly moist to moist		CL	2.4	



SOIL BORING/WELL CONSTRUCTION LOG

WELL/BORING NO.

MW-16

CLIENT/ADDRESS
AC Transit Emeryville, CA

PERMIT NO.
W2009-0141

DRILLING COMPANY:
WDC

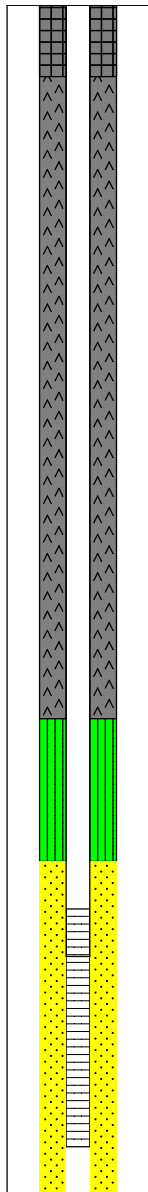
DRILL METHOD:
Auger

BOREHOLE / WELL
CASING DIA (IN): 6.5 / 2

SAMPLE INTERVAL:
Continuous

DATE: 02/19/2009	GROUND SURFACE ELEV. (FT MSL): N/A	TOTAL DEPTH (FT): 25	WATER DEPTH (FT): 20	PROJECT NUMBER: 2030
SCREENED INTERVAL (FT): 19-24	SCREEN SIZE (IN): 0.020 SCH 40 PVC	CASING INTERVAL (FT): 0-25	TOP OF CASING ELEV (FT MSL): N/A	LOGGED BY: Dustin Metz
SAND INTERVAL (FT): 18-25 8/20 Mesh	BENTONITE INTERVAL (FT): 18-15	GROUT INTERVAL (FT): 0-15 Portland w/ 5% Bentonite	SURFACE COMPLETION Traffic Rated Vault box	END CAP 25'

WELL COMPLETION	DEPTH FEET	DESCRIPTION	USCS CODE GRAPHIC	USCS CODE	OVM PPM
-----------------	------------	-------------	-------------------	-----------	---------



0	Fill: 0'-2' Concrete/Fill		Fill		
	CLAYEY SAND: 2'-6' (0,50,20,30); dark yellow brown (10YR 4/6); loose; very fine sand; poorly graded; slightly moist		SC		
5	SILTY CLAY: 6'-20' (0,15,25,60); very dark brown (10YR 2/2); medium plasticity; stiff; slightly moist		CL	44	
10	@17' Clayey Sand Lens; very moist		SM	0.7	
15	SILTY SAND: 20'-23' (0,50,30,20); dark gray (10YR 4/1); dense; very fine sand; poorly graded; saturated		SM	1.1	
20	SILTY CLAY: 23'-25' (0,20,35,45); dark gray (10YR 4/1); medium stiff; low to medium plasticity; slightly moist		CL		
25					

APPENDIX C
CERTIFIED ANALYTICAL REPORTS



Technical Report for

Cameron-Cole

T0600118672-AC Transit-Emeryville, CA

2030

Accutest Job Number: C3467

Sampling Date: 12/17/08

Report to:

**Cameron-Cole
101 West Atlantic Avenue Suite 90
Alameda, CA 94501
dmetz@cameron-cole.com**

ATTN: Dustin Metz

Total number of pages in report: 63



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

**Laurie Glantz-Murphy
Laboratory Director**

Client Service contact: Diane Theesen 408-588-0200

Certifications: CA (08258CA)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.



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Sample Summary

Cameron-Cole

Job No: C3467

T0600118672-AC Transit-Emeryville, CA
Project No: 2030

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
C3467-1	12/17/08	15:25 DM	12/18/08	AQ	Ground Water	SB-21
C3467-2	12/17/08	15:30 DM	12/18/08	SO	Soil	SB-21-22'
C3467-3	12/17/08	14:10 DM	12/18/08	AQ	Ground Water	SB-20
C3467-4	12/17/08	14:15 DM	12/18/08	SO	Soil	SB-20-22.5'
C3467-5	12/17/08	08:45 DM	12/18/08	AQ	Ground Water	SB-15
C3467-6	12/17/08	09:00 DM	12/18/08	SO	Soil	SB-15-20.5
C3467-7	12/17/08	09:40 DM	12/18/08	AQ	Ground Water	SB-16
C3467-8	12/17/08	09:40 DM	12/18/08	SO	Soil	SB-16-17.5
C3467-9	12/17/08	10:40 DM	12/18/08	AQ	Ground Water	SB-17
C3467-10	12/17/08	10:45 DM	12/18/08	SO	Soil	SB-17-22.5'
C3467-11	12/17/08	13:20 DM	12/18/08	AQ	Ground Water	SB-19
C3467-12	12/17/08	13:30 DM	12/18/08	SO	Soil	SB-19-19'
C3467-13	12/17/08	11:45 DM	12/18/08	AQ	Ground Water	SB-18

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Summary (continued)

Cameron-Cole

Job No: C3467

T0600118672-AC Transit-Emeryville, CA
Project No: 2030

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
C3467-14	12/17/08	12:00	DM	12/18/08	SO Soil	SB-18-10'
C3467-15	12/17/08	11:50	DM	12/18/08	SO Soil	SB-18-19.5'
C3467-16	12/17/08	08:00	DM	12/18/08	AQ Trip Blank Water	TB-01

Soil samples reported on a dry weight basis unless otherwise indicated on result page.



Sample Results

Report of Analysis

Report of Analysis

Client Sample ID: SB-21		
Lab Sample ID: C3467-1		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3436.D	1	12/23/08	BD	n/a	n/a	VW128
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.9	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	7.5	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	8.3	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	65.7	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21		
Lab Sample ID: C3467-1		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8015B M SW846 3510C		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1 ^a	HH1631.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

	Initial Volume	Final Volume
Run #1	900 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.11	mg/l	
	TPH (Motor Oil)	ND	0.22	mg/l	
	TPH (Mineral Spirits) ^b	0.120	0.11	mg/l	
	TPH (Kerosene)	ND	0.11	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%		45-140%

(a) Reporting limits raised due to insufficient sample volume (high level of sediment).

(b) Atypical Mineral Spirits pattern (C9-C16).

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-22'	
Lab Sample ID: C3467-2	Date Sampled: 12/17/08
Matrix: SO - Soil	Date Received: 12/18/08
Method: SW846 8260B	Percent Solids: n/a ^a
Project: T0600118672-AC Transit-Emeryville, CA	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02975.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.04 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	96%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-21-22'	
Lab Sample ID: C3467-2	Date Sampled: 12/17/08
Matrix: SO - Soil	Date Received: 12/18/08
Method: SW846 8015B M SW846 3545A	Percent Solids: n/a ^a
Project: T0600118672-AC Transit-Emeryville, CA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1657.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	62%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	SB-20	Date Sampled:	12/17/08
Lab Sample ID:	C3467-3	Date Received:	12/18/08
Matrix:	AQ - Ground Water	Percent Solids:	n/a
Method:	SW846 8260B		
Project:	T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3437.D	1	12/23/08	BD	n/a	n/a	VW128
Run #2							

Run #	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.5	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	10.7	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	13.2	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	59.5	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	102%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-20		Date Sampled: 12/17/08
Lab Sample ID: C3467-3		Date Received: 12/18/08
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1632.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	72%		45-140%

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-20-22.5'		Date Sampled: 12/17/08
Lab Sample ID: C3467-4		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02976.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.06 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	94%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-20-22.5'		Date Sampled: 12/17/08
Lab Sample ID: C3467-4		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1658.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	70%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-15		
Lab Sample ID: C3467-5		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3398.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	6.2	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		60-130%
2037-26-5	Toluene-D8	105%		60-130%
460-00-4	4-Bromofluorobenzene	104%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-15		Date Sampled: 12/17/08
Lab Sample ID: C3467-5		Date Received: 12/18/08
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1633.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1010 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.099	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.099	mg/l	
	TPH (Kerosene)	ND	0.099	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	76%		45-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-15-20.5		Date Sampled: 12/17/08
Lab Sample ID: C3467-6		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02977.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.00 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	96%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-15-20.5		Date Sampled: 12/17/08
Lab Sample ID: C3467-6		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1659.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	9.90 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-16		Date Sampled: 12/17/08
Lab Sample ID: C3467-7		Date Received: 12/18/08
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3394.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.2	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	9.1	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-16		Date Sampled: 12/17/08
Lab Sample ID: C3467-7		Date Received: 12/18/08
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1634.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	0.728	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	73%		45-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-16-17.5	
Lab Sample ID: C3467-8	Date Sampled: 12/17/08
Matrix: SO - Soil	Date Received: 12/18/08
Method: SW846 8260B	Percent Solids: n/a ^a
Project: T0600118672-AC Transit-Emeryville, CA	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02978.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.01 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	96%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-16-17.5		Date Sampled: 12/17/08
Lab Sample ID: C3467-8		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1660.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	73%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-17		
Lab Sample ID: C3467-9		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3395.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.5	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	6.4	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	10.1	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		60-130%
2037-26-5	Toluene-D8	106%		60-130%
460-00-4	4-Bromofluorobenzene	105%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-17		
Lab Sample ID: C3467-9		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8015B M SW846 3510C		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1635.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	76%		45-140%	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-17-22.5'		Date Sampled: 12/17/08
Lab Sample ID: C3467-10		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02979.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.04 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		60-130%
2037-26-5	Toluene-D8	107%		60-130%
460-00-4	4-Bromofluorobenzene	97%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-17-22.5'	
Lab Sample ID: C3467-10	Date Sampled: 12/17/08
Matrix: SO - Soil	Date Received: 12/18/08
Method: SW846 8015B M SW846 3545A	Percent Solids: n/a ^a
Project: T0600118672-AC Transit-Emeryville, CA	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1661.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	71%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19		
Lab Sample ID: C3467-11		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3396.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.3	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	14.9	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	2.7	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19		Date Sampled: 12/17/08
Lab Sample ID: C3467-11		Date Received: 12/18/08
Matrix: AQ - Ground Water		Percent Solids: n/a
Method: SW846 8015B M SW846 3510C		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1636.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	78%		45-140%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-19'		
Lab Sample ID: C3467-12		Date Sampled: 12/17/08
Matrix: SO - Soil		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a ^a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02980.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.06 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10)	ND	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		60-130%
2037-26-5	Toluene-D8	106%		60-130%
460-00-4	4-Bromofluorobenzene	100%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-19-19'		Date Sampled: 12/17/08
Lab Sample ID: C3467-12		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1662.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	66%		45-140%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18		
Lab Sample ID: C3467-13		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8260B		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3397.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.4	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	5.8	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	105%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18		
Lab Sample ID: C3467-13		Date Sampled: 12/17/08
Matrix: AQ - Ground Water		Date Received: 12/18/08
Method: SW846 8015B M SW846 3510C		Percent Solids: n/a
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1637.D	1	12/22/08	JH	12/19/08	OP594	GHH91
Run #2							

Run #	Initial Volume	Final Volume
Run #1	1000 ml	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits	
630-01-3	Hexacosane	75%		45-140%	

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18-10'	Date Sampled: 12/17/08
Lab Sample ID: C3467-14	Date Received: 12/18/08
Matrix: SO - Soil	Percent Solids: n/a ^a
Method: SW846 8260B	
Project: T0600118672-AC Transit-Emeryville, CA	

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02981.D	1	12/19/08	MF	n/a	n/a	VO148
Run #2							

Run #1	Initial Weight
Run #1	5.03 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	9.9	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
	TPH-GRO (C6-C10) ^b	102	99	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		60-130%
2037-26-5	Toluene-D8	103%		60-130%
460-00-4	4-Bromofluorobenzene	103%		60-130%

- (a) All results reported on wet weight basis.
- (b) Atypical pattern.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18-10'		Date Sampled: 12/17/08
Lab Sample ID: C3467-14		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1663.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2							

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2		

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel) ^b	22.2	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	73%		45-140%

- (a) All results reported on wet weight basis.
- (b) Atypical Diesel pattern (C10-C26).

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18-19.5'		Date Sampled: 12/17/08
Lab Sample ID: C3467-15		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	O02999.D	1	12/22/08	MF	n/a	n/a	VO150
Run #2							

Run #1	Initial Weight
Run #1	5.09 g
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	4.9	ug/kg	
108-88-3	Toluene	ND	4.9	ug/kg	
100-41-4	Ethylbenzene	ND	4.9	ug/kg	
1330-20-7	Xylene (total)	ND	9.8	ug/kg	
106-93-4	1,2-Dibromoethane	ND	4.9	ug/kg	
107-06-2	1,2-Dichloroethane	ND	4.9	ug/kg	
108-20-3	Di-Isopropyl ether	ND	4.9	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	4.9	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	4.9	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	4.9	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	39	ug/kg	
	TPH-GRO (C6-C10)	ND	98	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		60-130%
2037-26-5	Toluene-D8	104%		60-130%
460-00-4	4-Bromofluorobenzene	98%		60-130%

(a) All results reported on wet weight basis.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: SB-18-19.5'		Date Sampled: 12/17/08
Lab Sample ID: C3467-15		Date Received: 12/18/08
Matrix: SO - Soil		Percent Solids: n/a ^a
Method: SW846 8015B M SW846 3545A		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	HH1664.D	1	12/23/08	JH	12/22/08	OP598	GHH92
Run #2 ^b	HH1689.D	1	12/26/08	JH	12/24/08	OP605	GHH93

Run #	Initial Weight	Final Volume
Run #1	10.0 g	1.0 ml
Run #2	10.0 g	1.0 ml

TPH Extractable w/ Silica Gel Cleanup

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
630-01-3	Hexacosane	77%	76%	45-140%

- (a) All results reported on wet weight basis.
- (b) Confirmation run due to MS/MSD failure on batch#OP598.

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: TB-01		Date Sampled: 12/17/08
Lab Sample ID: C3467-16		Date Received: 12/18/08
Matrix: AQ - Trip Blank Water		Percent Solids: n/a
Method: SW846 8260B		
Project: T0600118672-AC Transit-Emeryville, CA		

Run #1	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	W3384.D	1	12/22/08	BD	n/a	n/a	VW127
Run #2							

Run #1	Purge Volume
Run #1	10.0 ml
Run #2	

BTEX, Oxygenates

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
108-88-3	Toluene	1.5	1.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	97%		60-130%
2037-26-5	Toluene-D8	102%		60-130%
460-00-4	4-Bromofluorobenzene	101%		60-130%

ND = Not detected
 RL = Reporting Limit
 E = Indicates value exceeds calibration range

J = Indicates an estimated value
 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound



Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
 (408) 588-0200 FAX: (408) 588-0201

10/3

FED-EX Tracking #	Bottle Order Control #																																																																																																																																								
Accutest Quote # VV06260801	Accutest NC Job #: C C3467																																																																																																																																								
<table border="1"> <thead> <tr> <th>Client / Reporting Information</th> <th>Project Information</th> <th>Requested Analysis</th> <th>Matrix Codes</th> </tr> </thead> <tbody> <tr> <td>Company Name Cameron-Cole</td> <td>Project Name: AL Transit Emeryville</td> <td>8260 Full List <input type="checkbox"/> 824 <input type="checkbox"/> w/TPH as Gasoline</td> <td>WW- Water</td> </tr> <tr> <td>Address 101 W. Atlantic Ave Bldg 90</td> <td>Street 10626 E. 14th Street</td> <td>8260Petro (includes BTEX/MIBE/TBA/TBBE/PAHs/TAHME/1,2,4-DCA/EDB/EDC/TPH as Gas)</td> <td>GW- Ground Water</td> </tr> <tr> <td>City Alameda</td> <td>City Oakland</td> <td>8270 <input type="checkbox"/> PAHs only <input type="checkbox"/> 625 <input type="checkbox"/> +TICs <input type="checkbox"/></td> <td>SW- Surface Water</td> </tr> <tr> <td>State CA</td> <td>State CA</td> <td>TPH-Extractable-Diesel-Motor Oil-Other</td> <td>SO- Soil</td> </tr> <tr> <td>Zip 94501</td> <td>Project # 2030</td> <td>METALS: CAM-170 LUFT-90 RCRA-80 PPM-100</td> <td>OI-Oil</td> </tr> <tr> <td>Project Contact: Dustin Metz</td> <td>EMAIL: dmetz@cameron-cole.com</td> <td>Pesticides-001 <input type="checkbox"/> PCBs-002 <input type="checkbox"/> 608 <input type="checkbox"/></td> <td>WP-Wipe</td> </tr> <tr> <td>Phone # 510 769-3578</td> <td>Client Purchase Order #</td> <td>BTEX-MIBE-TPH as Gasoline by GC/MSD-FID <input type="checkbox"/></td> <td>LIQ - Non-aqueous Liquid</td> </tr> <tr> <td>Sampler's Name Dustin Metz</td> <td></td> <td></td> <td>AIR</td> </tr> <tr> <td></td> <td></td> <td></td> <td>DW- Drinking Water (Perchlorate Only)</td> </tr> <tr> <td>Accutest Sample ID</td> <td>Collection</td> <td></td> <td>LAB USE ONLY</td> </tr> <tr> <td>SB-21</td> <td>12/18/08 15:25 UO/DN GW 2</td> <td></td> <td>-1</td> </tr> <tr> <td>↓ (9) 22'</td> <td>15:30 GW 3 X</td> <td></td> <td>-2</td> </tr> <tr> <td>SB-20</td> <td>14:10 GW 2</td> <td></td> <td>-3</td> </tr> <tr> <td>↓</td> <td>GW 3 X</td> <td></td> <td></td> </tr> <tr> <td>SB-20 (9) 22.5</td> <td>14:15 Soil 1</td> <td></td> <td>-4</td> </tr> <tr> <td>SB-15</td> <td>08:45 GW 2</td> <td></td> <td>-5</td> </tr> <tr> <td>↓</td> <td>GW 3 X</td> <td></td> <td></td> </tr> <tr> <td>SB-15 (9) 20.5</td> <td>09:00 Soil 1</td> <td></td> <td>-6</td> </tr> <tr> <td>Turnaround Time (Business days)</td> <td>Data Deliverable Information</td> <td colspan="2">Comments / Remarks</td> </tr> <tr> <td><input checked="" type="checkbox"/> Std. 15 Business Days</td> <td>Approved By/ Date:</td> <td colspan="2">Rec'd 3 VOA's 2 L7 Ambio's NH₃ (Leach) + 1 Acetate.</td> </tr> <tr> <td><input type="checkbox"/> 10 Day (Workload dependent)</td> <td><input type="checkbox"/> Commercial "A"</td> <td colspan="2">w/ 3.3° Temp</td> </tr> <tr> <td><input type="checkbox"/> 5 Day (Workload dependent)</td> <td><input checked="" type="checkbox"/> Commercial "B"</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/> 3 Day (125% markup)</td> <td><input type="checkbox"/> EDF for Geotracker</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/> 2 Day (150% markup)</td> <td><input checked="" type="checkbox"/> EDD Format Cameron-Cole</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/> 1 Day (200% markup)</td> <td>Provide EDF Global ID: T0600118672</td> <td colspan="2"></td> </tr> <tr> <td><input type="checkbox"/> Same Day (300% markup)</td> <td>Provide EDF Logcode: CCA</td> <td colspan="2"></td> </tr> <tr> <td colspan="4">Emergency T/A data available VIA Lablink</td> </tr> <tr> <td colspan="4">Sample Custody must be documented below each time samples change possession, including courier delivery.</td> </tr> <tr> <td>Relinquished by Sampler: 1. C. J. O'SA</td> <td>Date Time: 12/18/08 10:38</td> <td>Received By: </td> <td>Date Time: 12/18/08 12:45</td> </tr> <tr> <td>Relinquished by:</td> <td>Date Time:</td> <td>Received By:</td> <td>Date Time:</td> </tr> <tr> <td>3</td> <td></td> <td>4</td> <td></td> </tr> <tr> <td>Relinquished by:</td> <td>Date Time:</td> <td>Received By:</td> <td>Date Time:</td> </tr> <tr> <td>5</td> <td></td> <td>5</td> <td></td> </tr> </tbody> </table>		Client / Reporting Information	Project Information	Requested Analysis	Matrix Codes	Company Name Cameron-Cole	Project Name: AL Transit Emeryville	8260 Full List <input type="checkbox"/> 824 <input type="checkbox"/> w/TPH as Gasoline	WW- Water	Address 101 W. Atlantic Ave Bldg 90	Street 10626 E. 14th Street	8260Petro (includes BTEX/MIBE/TBA/TBBE/PAHs/TAHME/1,2,4-DCA/EDB/EDC/TPH as Gas)	GW- Ground Water	City Alameda	City Oakland	8270 <input type="checkbox"/> PAHs only <input type="checkbox"/> 625 <input type="checkbox"/> +TICs <input type="checkbox"/>	SW- Surface Water	State CA	State CA	TPH-Extractable-Diesel-Motor Oil-Other	SO- Soil	Zip 94501	Project # 2030	METALS: CAM-170 LUFT-90 RCRA-80 PPM-100	OI-Oil	Project Contact: Dustin Metz	EMAIL: dmetz@cameron-cole.com	Pesticides-001 <input type="checkbox"/> PCBs-002 <input type="checkbox"/> 608 <input type="checkbox"/>	WP-Wipe	Phone # 510 769-3578	Client Purchase Order #	BTEX-MIBE-TPH as Gasoline by GC/MSD-FID <input type="checkbox"/>	LIQ - Non-aqueous Liquid	Sampler's Name Dustin Metz			AIR				DW- Drinking Water (Perchlorate Only)	Accutest Sample ID	Collection		LAB USE ONLY	SB-21	12/18/08 15:25 UO/DN GW 2		-1	↓ (9) 22'	15:30 GW 3 X		-2	SB-20	14:10 GW 2		-3	↓	GW 3 X			SB-20 (9) 22.5	14:15 Soil 1		-4	SB-15	08:45 GW 2		-5	↓	GW 3 X			SB-15 (9) 20.5	09:00 Soil 1		-6	Turnaround Time (Business days)	Data Deliverable Information	Comments / Remarks		<input checked="" type="checkbox"/> Std. 15 Business Days	Approved By/ Date:	Rec'd 3 VOA's 2 L7 Ambio's NH ₃ (Leach) + 1 Acetate.		<input type="checkbox"/> 10 Day (Workload dependent)	<input type="checkbox"/> Commercial "A"	w/ 3.3° Temp		<input type="checkbox"/> 5 Day (Workload dependent)	<input checked="" type="checkbox"/> Commercial "B"			<input type="checkbox"/> 3 Day (125% markup)	<input type="checkbox"/> EDF for Geotracker			<input type="checkbox"/> 2 Day (150% markup)	<input checked="" type="checkbox"/> EDD Format Cameron-Cole			<input type="checkbox"/> 1 Day (200% markup)	Provide EDF Global ID: T0600118672			<input type="checkbox"/> Same Day (300% markup)	Provide EDF Logcode: CCA			Emergency T/A data available VIA Lablink				Sample Custody must be documented below each time samples change possession, including courier delivery.				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31
3

CHAIN OF CUSTODY

3334 Victor Court, Santa Clara, CA 95054
 (408) 588-0200 FAX: (408) 588-0201

30f3

FED-EX Tracking #	3206260801	Bottle Order Control #	C3467
Accutest Quote #	VV06260801	Accutest NC Job #	C

Client / Reporting Information	Project Information	Requested Analysis	Matrix Codes					
Company Name: <u>Cameron Cole</u>	Project Name: <u>AC Trans Energy VIII</u>	<input type="checkbox"/> 8260 Full List <input type="checkbox"/> 624 <input type="checkbox"/> w/TPH as Gasoline	WW- Water					
Address: <u>101 W. Atlantic Ave Bldg 90</u>	Street: <u>10626 E. 14th Street</u>	<input type="checkbox"/> 8260 Petro (includes BTEX/MIBE/TBA/TEBE/PIPE/TAME/TACN/EDS/TPH as Gas)	GW- Ground Water					
City: <u>Alameda</u> State: <u>CA</u> Zip: <u>94501</u>	City: <u>OAKLAND</u> State: <u>CA</u>	<input type="checkbox"/> 8270 <input type="checkbox"/> PAHs only <input type="checkbox"/> 625 <input type="checkbox"/> + TICs	SW- Surface Water					
Project Contact: <u>DUSTIN METZ</u>	Project # <u>2030</u>	<input type="checkbox"/> TPH-Extractable-Biesel-Motor Oil - Other	SO- Soil					
Phone # <u>510-769-3578</u>	EMAIL: <u>dmetz@cameron-cole.com</u>	<input type="checkbox"/> W/TPH Silica Gel Cleanup	OI-Oil					
Samplers Name: <u>DUSTIN METZ</u>	Client Purchase Order #	<input type="checkbox"/> METALS: CAM-170 LUFT-50 RCR-80 PPM-130	WP-Wipe					
Accutest Sample ID	Sample ID / Field Point / Point of Collection	Date	Time	Sampled by	Matrix	# of bottles	Requested Analysis	Matrix Codes
	<u>SB-18</u>	<u>12/17/08</u>	<u>11:45</u>	<u>UO/DW</u>	<u>GW</u>	<u>2</u>	<input checked="" type="checkbox"/> 8260 Full List	LIQ - Non-aqueous Liquid
	<u>SB-18 @ 10'</u>		<u>12:00</u>		<u>Soil</u>	<u>1</u>	<input checked="" type="checkbox"/> 8270	AIR
	<u>SB-18 @ 19.5'</u>		<u>11:50</u>		<u>Soil</u>	<u>1</u>	<input checked="" type="checkbox"/> 8270	DW- Drinking Water (Perchlorate Only)
	<u>TB-01</u>		<u>8:00</u>		<u>Soil</u>	<u>2</u>	<input checked="" type="checkbox"/> 8270	LAB USE ONLY

Turnaround Time (Business days)	Approved By/ Date:	Data Deliverable Information	Comments / Remarks
<input checked="" type="checkbox"/> Std. 15 Business Days		<input type="checkbox"/> Commercial "A"	
<input type="checkbox"/> 10 Day (Workload dependent)		<input checked="" type="checkbox"/> Commercial "B"	
<input type="checkbox"/> 5 Day (Workload dependent)		<input type="checkbox"/> EDF for Geotracker	
<input type="checkbox"/> 3 Day (125% markup)		<input checked="" type="checkbox"/> EDD Format	<u>Cameron-Cole</u>
<input type="checkbox"/> 2 Day (150% markup)		Provide EDF Global ID	<u>TAB0118672</u>
<input type="checkbox"/> 1 Day (200% markup)		Provide EDF Logcode	<u>CCR</u>
<input type="checkbox"/> Same Day (300% markup)			

Emergency T/A data available VIA Lablink			
Sample Custody must be documented below each time samples change possession, including courier delivery.			
Relinquished by Sampler:	Date Time:	Received By:	Date Time:
<u>Nylosa Overman</u>	<u>12/18/08 10:38</u>	<u>[Signature]</u>	<u>12/18/08 12:45</u>
Relinquished by:	Date Time:	Received By:	Date Time:
Relinquished by:	Date Time:	Received By:	Date Time:
5		Custody Seal #	Appropriate Bottle / Pres. Y/N
			Headspace Y/N
			On Ice Y/N
			Cooler Temp. _____ °C
			Labels match Coc? Y / N
			Separate Receipt Log Y / N

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3

C3467: Chain of Custody

Page 3 of 4



GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO148-MB	O02971.D	1	12/19/08	MF	n/a	n/a	VO148

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	103% 60-130%
2037-26-5	Toluene-D8	103% 60-130%
460-00-4	4-Bromofluorobenzene	97% 60-130%

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW127-MB	W3383.D	1	12/22/08	BD	n/a	n/a	VW127

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-5, C3467-7, C3467-9, C3467-11, C3467-13, C3467-16

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	94% 60-130%
2037-26-5	Toluene-D8	104% 60-130%
460-00-4	4-Bromofluorobenzene	100% 60-130%

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO150-MB	O02992.D	1	12/22/08	MF	n/a	n/a	VO150

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-15

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	5.0	ug/kg	
106-93-4	1,2-Dibromoethane	ND	5.0	ug/kg	
107-06-2	1,2-Dichloroethane	ND	5.0	ug/kg	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/kg	
100-41-4	Ethylbenzene	ND	5.0	ug/kg	
637-92-3	Ethyl tert-Butyl Ether	ND	5.0	ug/kg	
1634-04-4	Methyl Tert Butyl Ether	ND	5.0	ug/kg	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/kg	
75-65-0	Tert Butyl Alcohol	ND	40	ug/kg	
108-88-3	Toluene	ND	5.0	ug/kg	
1330-20-7	Xylene (total)	ND	10	ug/kg	
	TPH-GRO (C6-C10)	ND	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	97% 60-130%
2037-26-5	Toluene-D8	102% 60-130%
460-00-4	4-Bromofluorobenzene	95% 60-130%

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW128-MB	W3421.D	1	12/23/08	BD	n/a	n/a	VW128

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-1, C3467-3

CAS No.	Compound	Result	RL	Units	Q
71-43-2	Benzene	ND	1.0	ug/l	
106-93-4	1,2-Dibromoethane	ND	1.0	ug/l	
107-06-2	1,2-Dichloroethane	ND	1.0	ug/l	
108-20-3	Di-Isopropyl ether	ND	5.0	ug/l	
100-41-4	Ethylbenzene	ND	1.0	ug/l	
637-92-3	Ethyl Tert Butyl Ether	ND	5.0	ug/l	
1634-04-4	Methyl Tert Butyl Ether	ND	1.0	ug/l	
994-05-8	Tert-Amyl Methyl Ether	ND	5.0	ug/l	
75-65-0	Tert-Butyl Alcohol	ND	10	ug/l	
108-88-3	Toluene	ND	1.0	ug/l	
1330-20-7	Xylene (total)	ND	2.0	ug/l	
	TPH-GRO (C6-C10)	ND	50	ug/l	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	99% 60-130%
2037-26-5	Toluene-D8	104% 60-130%
460-00-4	4-Bromofluorobenzene	104% 60-130%

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO148-BS	O02968.D	1	12/19/08	MF	n/a	n/a	VO148

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	40	39.7	99	60-130
106-93-4	1,2-Dibromoethane	40	42.2	106	60-130
107-06-2	1,2-Dichloroethane	40	36.3	91	60-130
108-20-3	Di-Isopropyl ether	40	39.2	98	60-130
100-41-4	Ethylbenzene	40	37.3	93	60-130
637-92-3	Ethyl tert-Butyl Ether	40	44.5	111	60-130
1634-04-4	Methyl Tert Butyl Ether	40	39.7	99	60-130
994-05-8	Tert-Amyl Methyl Ether	40	46.5	116	60-130
75-65-0	Tert Butyl Alcohol	200	167	84	60-130
108-88-3	Toluene	40	38.1	95	60-130
1330-20-7	Xylene (total)	120	115	96	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	60-130%
2037-26-5	Toluene-D8	99%	60-130%
460-00-4	4-Bromofluorobenzene	95%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO148-BS	O02970.D	1	12/19/08	MF	n/a	n/a	VO148

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	231	92	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	102%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	97%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW127-BS	W3381.D	1	12/22/08	BD	n/a	n/a	VW127

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-5, C3467-7, C3467-9, C3467-11, C3467-13, C3467-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.0	100	60-130
106-93-4	1,2-Dibromoethane	20	20.1	101	60-130
107-06-2	1,2-Dichloroethane	20	19.4	97	60-130
108-20-3	Di-Isopropyl ether	20	20.8	104	60-130
100-41-4	Ethylbenzene	20	19.8	99	60-130
637-92-3	Ethyl Tert Butyl Ether	20	21.2	106	60-130
1634-04-4	Methyl Tert Butyl Ether	20	20.7	104	60-130
994-05-8	Tert-Amyl Methyl Ether	20	21.3	107	60-130
75-65-0	Tert-Butyl Alcohol	100	92.7	93	60-130
108-88-3	Toluene	20	19.8	99	60-130
1330-20-7	Xylene (total)	60	59.7	100	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	101%	60-130%
2037-26-5	Toluene-D8	101%	60-130%
460-00-4	4-Bromofluorobenzene	102%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW127-BS	W3382.D	1	12/22/08	BD	n/a	n/a	VW127

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-5, C3467-7, C3467-9, C3467-11, C3467-13, C3467-16

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	138	110	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	95%	60-130%
2037-26-5	Toluene-D8	103%	60-130%
460-00-4	4-Bromofluorobenzene	102%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO150-BS	O02990.D	1	12/22/08	MF	n/a	n/a	VO150

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-15

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	40	35.5	89	60-130
106-93-4	1,2-Dibromoethane	40	38.7	97	60-130
107-06-2	1,2-Dichloroethane	40	30.7	77	60-130
108-20-3	Di-Isopropyl ether	40	37.0	93	60-130
100-41-4	Ethylbenzene	40	33.8	85	60-130
637-92-3	Ethyl tert-Butyl Ether	40	42.0	105	60-130
1634-04-4	Methyl Tert Butyl Ether	40	38.0	95	60-130
994-05-8	Tert-Amyl Methyl Ether	40	43.2	108	60-130
75-65-0	Tert Butyl Alcohol	200	169	85	60-130
108-88-3	Toluene	40	35.1	88	60-130
1330-20-7	Xylene (total)	120	104	87	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	60-130%
2037-26-5	Toluene-D8	99%	60-130%
460-00-4	4-Bromofluorobenzene	92%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VO150-BS	O02997.D	1	12/22/08	MF	n/a	n/a	VO150

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-15

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
	TPH-GRO (C6-C10)	250	212	85	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	98%	60-130%
2037-26-5	Toluene-D8	102%	60-130%
460-00-4	4-Bromofluorobenzene	96%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW128-BS	W3419.D	1	12/23/08	BD	n/a	n/a	VW128

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-1, C3467-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.4	102	60-130
106-93-4	1,2-Dibromoethane	20	20.7	104	60-130
107-06-2	1,2-Dichloroethane	20	20.3	102	60-130
108-20-3	Di-Isopropyl ether	20	22.1	111	60-130
100-41-4	Ethylbenzene	20	19.2	96	60-130
637-92-3	Ethyl Tert Butyl Ether	20	22.9	115	60-130
1634-04-4	Methyl Tert Butyl Ether	20	23.3	117	60-130
994-05-8	Tert-Amyl Methyl Ether	20	23.3	117	60-130
75-65-0	Tert-Butyl Alcohol	100	116	116	60-130
108-88-3	Toluene	20	19.8	99	60-130
1330-20-7	Xylene (total)	60	57.7	96	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	60-130%
2037-26-5	Toluene-D8	101%	60-130%
460-00-4	4-Bromofluorobenzene	103%	60-130%

4.2
4

Blank Spike Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VW128-BS	W3420.D	1	12/23/08	BD	n/a	n/a	VW128

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-1, C3467-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
	TPH-GRO (C6-C10)	125	144	115	60-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	97%	60-130%
2037-26-5	Toluene-D8	104%	60-130%
460-00-4	4-Bromofluorobenzene	103%	60-130%

4.2
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C3467-2MS	O02984.D	1	12/19/08	MF	n/a	n/a	VO148
C3467-2MSD	O02985.D	1	12/19/08	MF	n/a	n/a	VO148
C3467-2	O02975.D	1	12/19/08	MF	n/a	n/a	VO148

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14

CAS No.	Compound	C3467-2 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	39.9	35.3	88	36.3	91	3	60-130/30
106-93-4	1,2-Dibromoethane	ND	39.9	42.9	107	41.3	104	4	60-130/30
107-06-2	1,2-Dichloroethane	ND	39.9	33.0	83	33.5	84	2	60-130/30
108-20-3	Di-Isopropyl ether	ND	39.9	35.1	88	35.6	90	1	60-130/30
100-41-4	Ethylbenzene	ND	39.9	33.7	84	34.4	87	2	60-130/30
637-92-3	Ethyl tert-Butyl Ether	ND	39.9	37.9	95	39.2	99	3	60-130/30
1634-04-4	Methyl Tert Butyl Ether	ND	39.9	34.7	87	35.6	90	3	60-130/30
994-05-8	Tert-Amyl Methyl Ether	ND	39.9	42.3	106	43.4	109	3	60-130/30
75-65-0	Tert Butyl Alcohol	ND	200	151	76	150	76	1	60-130/30
108-88-3	Toluene	ND	39.9	34.6	87	34.7	87	0	60-130/30
1330-20-7	Xylene (total)	ND	120	102	85	104	87	2	60-130/30

CAS No.	Surrogate Recoveries	MS	MSD	C3467-2	Limits
1868-53-7	Dibromofluoromethane	102%	101%	101%	60-130%
2037-26-5	Toluene-D8	98%	99%	104%	60-130%
460-00-4	4-Bromofluorobenzene	96%	95%	96%	60-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C3459-2MS	W3400.D	1	12/22/08	BD	n/a	n/a	VW127
C3459-2MSD	W3401.D	1	12/22/08	BD	n/a	n/a	VW127
C3459-2	W3386.D	1	12/22/08	BD	n/a	n/a	VW127

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-5, C3467-7, C3467-9, C3467-11, C3467-13, C3467-16

CAS No.	Compound	C3459-2 ug/l	Spike Q	ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		20	20.4	102	20.3	102	0	60-130/25
106-93-4	1,2-Dibromoethane	ND		20	18.8	94	19.6	98	4	60-130/25
107-06-2	1,2-Dichloroethane	ND		20	19.3	97	19.3	97	0	60-130/25
108-20-3	Di-Isopropyl ether	ND		20	22.1	111	21.7	109	2	60-130/25
100-41-4	Ethylbenzene	ND		20	19.8	99	19.6	98	1	60-130/25
637-92-3	Ethyl Tert Butyl Ether	ND		20	22.3	112	22.4	112	0	60-130/25
1634-04-4	Methyl Tert Butyl Ether	0.75	J	20	22.1	107	22.7	110	3	60-130/25
994-05-8	Tert-Amyl Methyl Ether	ND		20	21.7	109	22.3	112	3	60-130/25
75-65-0	Tert-Butyl Alcohol	ND		100	84.8	85	99.3	99	16	60-130/25
108-88-3	Toluene	ND		20	20.0	100	19.6	98	2	60-130/25
1330-20-7	Xylene (total)	ND		60	59.8	100	58.8	98	2	60-130/25

CAS No.	Surrogate Recoveries	MS	MSD	C3459-2	Limits
1868-53-7	Dibromofluoromethane	103%	103%	98%	60-130%
2037-26-5	Toluene-D8	102%	101%	103%	60-130%
460-00-4	4-Bromofluorobenzene	103%	104%	101%	60-130%

4.3
4

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
C3504-6MS	W3438.D	1	12/23/08	BD	n/a	n/a	VW128
C3504-6MSD	W3439.D	1	12/23/08	BD	n/a	n/a	VW128
C3504-6	W3424.D	1	12/23/08	BD	n/a	n/a	VW128

The QC reported here applies to the following samples:

Method: SW846 8260B

C3467-1, C3467-3

CAS No.	Compound	C3504-6 ug/l	Spike Q ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	20	23.1	116	22.6	113	2	60-130/25
106-93-4	1,2-Dibromoethane	ND	20	20.2	101	20.3	102	0	60-130/25
107-06-2	1,2-Dichloroethane	ND	20	20.7	104	20.5	103	1	60-130/25
108-20-3	Di-Isopropyl ether	ND	20	23.2	116	22.9	115	1	60-130/25
100-41-4	Ethylbenzene	ND	20	21.7	109	21.2	106	2	60-130/25
637-92-3	Ethyl Tert Butyl Ether	ND	20	23.1	116	22.9	115	1	60-130/25
1634-04-4	Methyl Tert Butyl Ether	ND	20	22.8	114	22.5	113	1	60-130/25
994-05-8	Tert-Amyl Methyl Ether	ND	20	22.8	114	22.6	113	1	60-130/25
75-65-0	Tert-Butyl Alcohol	ND	100	90.8	91	86.3	86	5	60-130/25
108-88-3	Toluene	ND	20	21.9	110	21.4	107	2	60-130/25
1330-20-7	Xylene (total)	ND	60	64.6	108	64.0	107	1	60-130/25

CAS No.	Surrogate Recoveries	MS	MSD	C3504-6	Limits
1868-53-7	Dibromofluoromethane	103%	103%	97%	60-130%
2037-26-5	Toluene-D8	101%	100%	105%	60-130%
460-00-4	4-Bromofluorobenzene	103%	102%	101%	60-130%



GC Semi-volatiles

5

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP594-MB	GG2851.D	1	12/22/08	JH	12/19/08	OP594	GGG117

The QC reported here applies to the following samples:

Method: SW846 8015B M

C3467-1, C3467-3, C3467-5, C3467-7, C3467-9, C3467-11, C3467-13

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	0.10	mg/l	
	TPH (Motor Oil)	ND	0.20	mg/l	
	TPH (Mineral Spirits)	ND	0.10	mg/l	
	TPH (Kerosene)	ND	0.10	mg/l	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	73% 45-140%

5.1
5

Method Blank Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP598-MB	GG2886.D	1	12/23/08	JH	12/22/08	OP598	GGG118

The QC reported here applies to the following samples:

Method: SW846 8015B M

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14, C3467-15

CAS No.	Compound	Result	RL	Units	Q
	TPH (Diesel)	ND	10	mg/kg	
	TPH (Motor Oil)	ND	20	mg/kg	
	TPH (Mineral Spirits)	ND	10	mg/kg	
	TPH (Kerosene)	ND	10	mg/kg	

CAS No.	Surrogate Recoveries	Limits
630-01-3	Hexacosane	73% 45-140%

Blank Spike/Blank Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP594-BS	GG2852.D	1	12/22/08	JH	12/19/08	OP594	GGG117
OP594-BSD	GG2853.D	1	12/22/08	JH	12/19/08	OP594	GGG117

The QC reported here applies to the following samples:

Method: SW846 8015B M

C3467-1, C3467-3, C3467-5, C3467-7, C3467-9, C3467-11, C3467-13

CAS No.	Compound	Spike mg/l	BSP mg/l	BSP %	BSD mg/l	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	1	0.668	67	0.626	63	6	45-140/30
	TPH (Motor Oil)	1	0.758	76	0.759	76	0	45-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	79%	75%	45-140%

5.2
5

Blank Spike/Blank Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP598-BS	GG2887.D	1	12/23/08	JH	12/22/08	OP598	GGG118
OP598-BSD	GG2888.D	1	12/23/08	JH	12/22/08	OP598	GGG118

The QC reported here applies to the following samples:

Method: SW846 8015B M

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14, C3467-15

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	BSD mg/kg	BSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	100	66.5	67	63.1	63	5	45-140/30
	TPH (Motor Oil)	100	80.3	80	78.7	79	2	45-140/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
630-01-3	Hexacosane	78%	75%	45-140%

5.2
5

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: C3467
Account: CCCAA Cameron-Cole
Project: T0600118672-AC Transit-Emeryville, CA

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP598-MS	HH1687.D	1	12/26/08	JH	12/22/08	OP598	GHH93
OP598-MSD	HH1688.D	1	12/26/08	JH	12/22/08	OP598	GHH93
C3467-15	HH1664.D	1	12/23/08	JH	12/22/08	OP598	GHH92

The QC reported here applies to the following samples:

Method: SW846 8015B M

C3467-2, C3467-4, C3467-6, C3467-8, C3467-10, C3467-12, C3467-14, C3467-15

CAS No.	Compound	C3467-15 mg/kg	Spike Q	mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH (Diesel)	ND	100	78.5	79	79.9	80	2		45-140/30
	TPH (Motor Oil)	ND	100	76.1	76	77.0	77	1		45-140/30

CAS No.	Surrogate Recoveries	MS	MSD	C3467-15	Limits
630-01-3	Hexacosane	78%	78%	77%	45-140%

5.3
5