

ALAMEDA COUNTY
**HEALTH CARE SERVICES
AGENCY**

ALEX BRISCOE, Agency Director



DEPARTMENT OF ENVIRONMENTAL HEALTH
OFFICE OF THE DIRECTOR
1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

November 26, 2012

Ms. Shari London
ConocoPhillips
3900 Kilroy Airport Way
Long Beach, CA 90806 (*Sent via*
E-mail to: Shari.A.London@conocophillips.com)

Mr. Mohammad Ahmadi
Lafayette Investment Group, LLC
587 Ygnacio Valley Road
Walnut Creek, CA 94596

Ms. Elizabeth Bochnak
64 Glenwild Rd.
Madison, NJ 07940

Subject: Case Closure Transmittal; Fuel Leak Case No. RO0002967 Global ID # T0619732490, Unocal #1028 / ConocoPhillips #251028, 5300 Broadway, Oakland, CA 94618

Dear Ms. London, et. al.:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Health (ACEH) is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

SITE INVESTIGATION AND CLEANUP SUMMARY

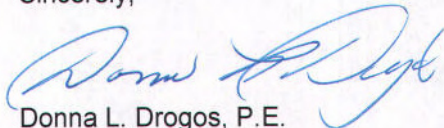
Please be advised that the following conditions exist at the site:

- Residual pollution remaining in soil beneath the site includes TPH as diesel at concentrations of up to 447 ppm and TPH as gasoline at concentrations of 5.2 ppm.
- Maximum concentrations of up to 45 ppb ethylbenzene remain in groundwater beneath the site.
- Case closure for this fuel leak site is granted for the commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.
- Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.
- This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.

Ms. London, etal
November 26, 2012
Page 2

If you have any questions, please call Barbara Jakub at (510) 639-1287. Thank you.

Sincerely,

A handwritten signature in blue ink, appearing to read "Donna L. Drogos".

Donna L. Drogos, P.E.
Division Chief

Enclosures:

1. Remedial Action Completion Certificate
2. Case Closure Summary

cc:

Leroy Griffin (w/enc via electronic mail:
lgriffin@oaklandnet.com)
Oakland, Fire Department

Barbara Jakub (w/ enc via e-mail), D. Drogos (w/ enc via e-mail), T. Le (via e-mail and w/orig enc)
Geotracker

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1131 HARBOR BAY PARKWAY
ALAMEDA, CA 94502
(510) 567-6777
FAX (510) 337-9135

REMEDIAL ACTION COMPLETION CERTIFICATION

November 26, 2012

Shari A. London
ConocoPhillips
3900 Kilroy Airport Way
Long Beach, CA, 90806
(Sent via e-mail to:
Shari.A.London@conocophillips.com)

Mr. Mohammad Ahmadi
Lafayette Investment Group, LLC
587 Ygnacio Valley Road
Walnut Creek, CA 94596

Ms. Elizabeth Bochnak
64 Glenwild Rd.
Madison, NJ 07940

Subject: Case Closure for Fuel Leak Case No. RO0002967 Global ID # T0619732490, Unocal #1028 / ConocoPhillips #251028, 5300 Broadway, Oakland, CA 94618

Dear Ms. London, etal:

This letter confirms the completion of a site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tank(s) are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, this agency finds that the site investigation and corrective action carried out at your underground storage tank(s) site is in compliance with the requirements of subdivisions (a) and (b) of Section 25299.37 of the Health and Safety Code and with corrective action regulations adopted pursuant to Section 25299.77 of the Health and Safety Code and that no further action related to the petroleum release(s) at the site is required.

Claims for reimbursement of corrective action costs submitted to the Underground Storage Tank Cleanup Fund more than 365 days after the date of this letter or issuance or activation of the Fund's Letter of Commitment, whichever occurs later, will not be reimbursed unless one of the following exceptions applies:

- Claims are submitted pursuant to Section 25299.57, subdivision (k) (reopened UST case); or
- Submission within the timeframe was beyond the claimant's reasonable control, ongoing work is required for closure that will result in the submission of claims beyond that time period, or that under the circumstances of the case, it would be unreasonable or inequitable to impose the 365-day time period.

This notice is issued pursuant to subdivision (h) of Section 25299.37 of the Health and Safety Code. Please contact our office if you have any questions regarding this matter.

Sincerely,


Ariu Levi
Director

CASE CLOSURE SUMMARY
LEAKING UNDERGROUND FUEL STORAGE TANK - LOCAL OVERSIGHT PROGRAM

I. AGENCY INFORMATION

Date: June 29, 2012

Agency Name: Alameda County Environmental Health	Address: 1131 Harbor Bay Parkway
City/State/Zip: Alameda, CA 94502-6577	Phone: (510) 639-1287
Responsible Staff Person: Barbara Jakub	Title: Hazardous Materials Specialist

II. CASE INFORMATION

Site Facility Name: UNOCAL #1028 / ConocoPhillips #251028		
Site Facility Address: 5300 Broadway, Oakland, CA 94618		
RB Case No.: ---	Local Case No.: ---	LOP Case No.: RO0002967
URF Filing Date: 10/19/07	Geotracker ID: T0619732490	APN: 48A-7035-19-1

Responsible Parties	Addresses	Phone Numbers
Ed C. Ralston ConocoPhillips	76 Broadway Sacramento, CA, 95818	916-558-7633
Mohammed Ahmadi Lafayette Investment Group LLC	587 Ygnacio Valley Rd. Walnut Creek, CA	925-979-0560
Elizabeth Bochnak	64 Glenwild Road Madison, NJ, 079402436	---

Tank I.D. No	Size in Gallons	Contents	Closed In Place/Removed?	Date
----	NA*	----	----	----
Piping			NA*	----

* Business was sold to current operator along with the current USTs. Case opened after divestment sampling. The USTs were not removed for this closure and are; therefore, not included in this table.

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and Type of Release: Unknown. Contamination reported during 2007 due diligence site assessment.		
Site characterization complete? Yes	Date Approved By Oversight Agency: ----	
Monitoring wells installed? Yes	Number: 3	Proper screened interval? Yes
Highest GW Depth Below Ground Surface: 1.16 ft bgs	Lowest Depth: 4.72 ft bgs	Flow Direction: Northwest
Most Sensitive Current Use: Potential drinking water source.		

Summary of Production Wells in Vicinity: No water supply wells were identified within a ½ mile of the site.	
Are drinking water wells affected? No	Aquifer Name: East Bay Plain
Is surface water affected? No	Nearest SW Name: Claremont Country Club pond (0.25 miles SE)
Off-Site Beneficial Use Impacts (Addresses/Locations): None Identified	
Reports on file? Yes	Where are reports filed? Alameda County Environmental Health, Geotracker and City of Oakland Fire Department

TREATMENT AND DISPOSAL OF AFFECTED MATERIAL			
Material	Amount (Include Units)	Action (Treatment or Disposal w/Destination)	Date
Tank	*None removed	----	----
Piping	None removed	----	----
Free Product	None encountered	----	----
Soil	None removed	----	----
Groundwater	None removed	----	----

* Business was sold to current operator along with the current USTs. Case opened after divestment sampling. The USTs were not removed for this closure and are; therefore, not included in this table.

MAXIMUM DOCUMENTED CONTAMINANT CONCENTRATIONS BEFORE AND AFTER CLEANUP
 (Please see Attachments 1 through 6 for additional information on contaminant locations and concentrations)

Contaminant	Soil (ppm)		Water (ppb)	
	Before	After	Before	After
TPH (Gas)	5.2	5.2	5,300	<50
TPH (Diesel)	447	447	15,000/25,000 ¹	<50
TPH (Motor Oil)	NA	NA	NA	NA
Oil and Grease	NA	NA	NA	NA
Benzene	<0.005	<0.005	<5	<0.5
Toluene	<0.005	<0.005	<5	<0.5
Ethylbenzene	0.007	0.007	45	45
Xylenes	<0.005	<0.005	6	<1.5
Heavy Metals (Cd, Cr, Pb, Ni, Zn)	16.7 [^]	16.7 [^]	NA	NA
MTBE	<0.0049 [*]	<0.0049 [*]	2.5 ^{**}	1.2 ^{***}
Other (8240/8270)	NA	NA	NA	NA

¹ duplicate grab groundwater sample.

[^] 16.7 ppm Pb. Cd, Cr, Ni, and Zn not analyzed.

NA = Not analyzed

^{*} <0.0005 ppm MTBE; <0.025 ppm TBA; <0.0049 ppm TAME; <0.001 ppm ETBE; <0.0049 ppm DIPE; <0.66 ppm EtOH; <0.0049 ppm EDB; and <0.0049 ppm EDC

^{**} <2.5 ppb MTBE; 7.5 ppb TBA; <0.8 ppb TAME; <0.8 ppb ETBE; <0.8 ppb DIPE; <250 EtOH; <1.0 EDB and <1.0 ppb EDC.

^{***} <1.2 ppb MTBE; <5.0 ppb TBA; <0.5 ppb TAME; <0.5 ppb ETBE; <0.5 ppb DIPE; <250 EtOH; <1.0 EDB and <1.0 ppb EDC.

Site History and Description of Corrective Actions:

The Site is currently operated by an independent gasoline station operator but was formerly ConocoPhillips. The current site owner purchased the USTs currently in place along with the property.

Fuel leak case RO528 was closed on 4/20/1994 for the ConocoPhillips service station. That closure was for the USTs removed on 11/22/1989 and replaced with the USTs currently present at the site (in the same location) which are not part of this closure.

On September 27, 2007, ATC advanced three soil borings for a property transaction, ATC-2, ATC-4 and ATC-5. Soil samples contained maximum concentrations of 5.2 ppm TPHg in ATC-5 from 5 feet below ground surface (bgs). Grab groundwater samples detected up to 25,000 ppb TPHd and 5,300 ppb TPHg in boring ATC-2. (No diesel tanks were reported to have been on-site.) The soil sample from ATC04 contained methylene chloride at 0.007ppm but no petroleum hydrocarbons. No groundwater sample was collected from ATC-4.

December 1, through 10, 2010 – Antea Group oversaw Cascade Drilling install monitoring wells MW-1, MW-2 and MW-3, advance 3 soil borings and attempt one CPT boring. Monitoring well MW-1 was placed adjacent to former boring ATC-2. The maximum concentration was 447 ppm Diesel Range Organics (DRO) in MW-2 from 7.5 to 8 feet bgs. No gasoline range organics (GRO), BTEX or oxygenates were detected in soil. Groundwater from the monitoring wells had maximum detections of 119 ppb GRO, 74.4 ppb DRO and 2.5 ppb MTBE.

December 2010 – August 2011 – Quarterly groundwater monitoring was performed at site for four quarters. Maximum concentrations of 119 ppb GRO, 74.4 ppb DRO and 2.5 ppb MTBE were reported from groundwater in the wells. Contaminant concentrations in groundwater have reduced over the four quarters of monitoring to present levels shown in the table above.

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? Yes		
Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? Yes		
Does corrective action protect public health for current land use? Alameda County Environmental Health staff does not make specific determinations concerning public health risk. However, based upon the information available in our files to date, it does not appear that the release would present a risk to human health based upon current land use and conditions.		
<p>Site Management Requirements:</p> <p>Case closure for this fuel leak site is granted for the commercial land use only. If a change in land use to any residential or other conservative land use scenario occurs at this site, Alameda County Environmental Health (ACEH) must be notified as required by Government Code Section 65850.2.2. ACEH will re-evaluate the case upon receipt of approved development/construction plans.</p> <p>Excavation or construction activities in areas of residual contamination require planning and implementation of appropriate health and safety procedures by the responsible party prior to and during excavation and construction activities.</p> <p>This site is to be entered into the City of Oakland Permit Tracking System due to the residual contamination on site.</p>		
Should corrective action be reviewed if land use changes? Yes		
Was a deed restriction or deed notification filed? No		Date Recorded: ---
Monitoring Wells Decommissioned: No	Number Decommissioned: 0	Number Retained: 3
List Enforcement Actions Taken: None		
List Enforcement Actions Rescinded: None		

V. ADDITIONAL COMMENTS, DATA, ETC.

<p>Considerations and/or Variances:</p> <ul style="list-style-type: none"> No diesel UST was ever reported to be at the site. Yet diesel was reported in groundwater at the site at up to 25,000 ppb in the initial sample event but were <50 ppb in subsequent sample events. There are multiple divestment sites in the ConocoPhillips portfolio where diesel was detected with no diesel USTs having been reported at the site and the problem has not been confirmed as to a lab or cross-contamination issue. <p>Conclusion:</p> <p>Alameda County Environmental Health staff believe that the levels of residual contamination do not pose a significant threat to water resources, public health and safety, and the environment under the current commercial land use based upon the information available in our files to date. No further investigation or cleanup for the fuel leak case is necessary unless a change in land use to any residential or other conservative land use scenario occurs at the site. ACEH staff recommend closure for this site.</p>

VI. LOCAL AGENCY REPRESENTATIVE DATA

Prepared by: Barbara Jakub, P.G.	Title: Hazardous Materials Specialist
Signature: <i>Barbara Jakub</i>	Date: 6/29/12
Approved by: Donna L. Drogos, P.E.	Title: Division Chief
Signature: <i>Donna L. Drogos</i>	Date: 07/02/12

This closure approval is based upon the available information and with the provision that the information provided to this agency was accurate and representative of site conditions.

VII. REGIONAL BOARD NOTIFICATION

Regional Board Staff Name: Cherie McCaulou	Title: Engineering Geologist
Notification Date: 7/3/2012	

VIII. MONITORING WELL DECOMMISSIONING

Date Requested by ACEH: 8/16/2012	Date of Well Decommissioning Report: 11/2/2012	
All Monitoring Wells Decommissioned: <input checked="" type="radio"/> Yes <input type="radio"/> No	Number Decommissioned: 3	Number Retained: 0
Reason Wells Retained: - - -		
Additional requirements for submittal of groundwater data from retained wells: - - -		
ACEH Concurrence - Signature: <i>Barbara Jakub</i>	Date: 11/6/12	

Attachments:

1. Site Vicinity Map (1 pp)
2. Site Plans (1 pp)
3. Soil Analytical Data (2 pp)
4. Groundwater Analytical Data (2 pp)
5. Boring Logs (9 pp)
6. Cross Sections (1 pp)

This document and the related CASE CLOSURE LETTER & REMEDIAL ACTION COMPLETION CERTIFICATE shall be retained by the lead agency as part of the official site file.

Jakub, Barbara, Env. Health

From: Cherie MCcaulou [CMccaoulou@waterboards.ca.gov]
Sent: Tuesday, July 03, 2012 1:26 PM
To: Jakub, Barbara, Env. Health
Subject: Re: Closure Summary for RO2967

Hi Barbara - Thank you for the notice for case closure. We have no objection to ACEH's recommendation to close this case.

>>> "Jakub, Barbara, Env. Health" <barbara.jakub@acgov.org> 7/3/2012 1:14 PM >>>

Hi Cherie,

Attached is a closure summary for RO2967; Unocal #1098?Conocophillips #251028 located at 5300 Boradway, Oakland, CA to comply with the RWQCB's 30-day review period. If no comments from the RWQCB are received within the 30-day review period, ACEH will proceed with case closure.

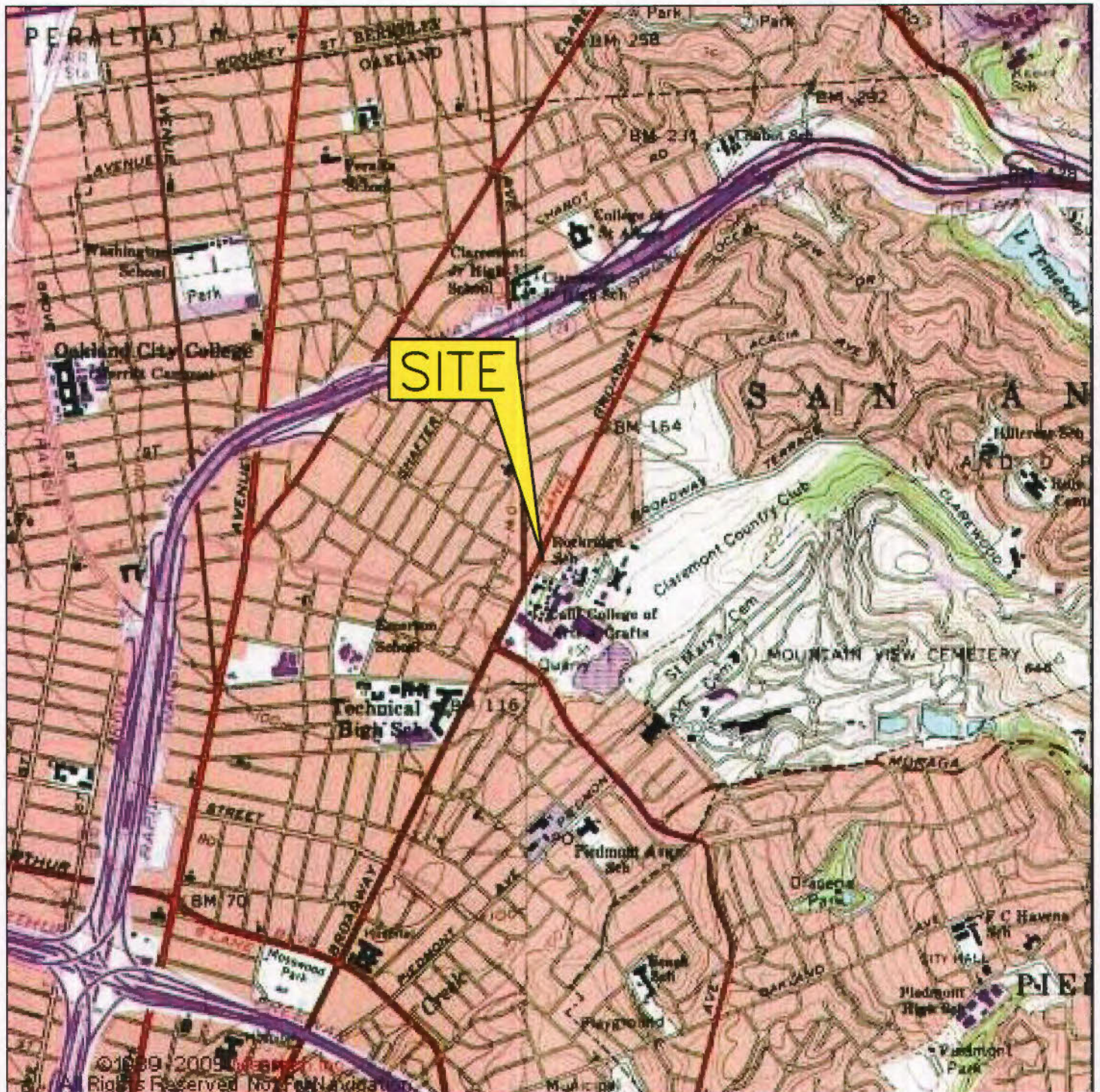
Please contact me if you have any comments or questions about the subject site.

Regards,

Barbara Jakub, P.G.
Hazardous Materials Specialist
Alameda County Environmental Health
1131 Harbor Bay Pky.
Alameda, CA 94502
Direct: 510-639-1287
Fax: 510-337-9335

PDF copies of case files can be downloaded at:

<http://ehgis.acgov.org/dehpublic/dehpublic.jsp>



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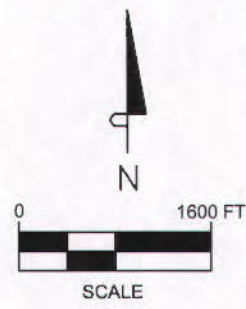


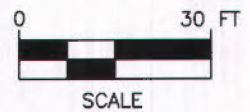
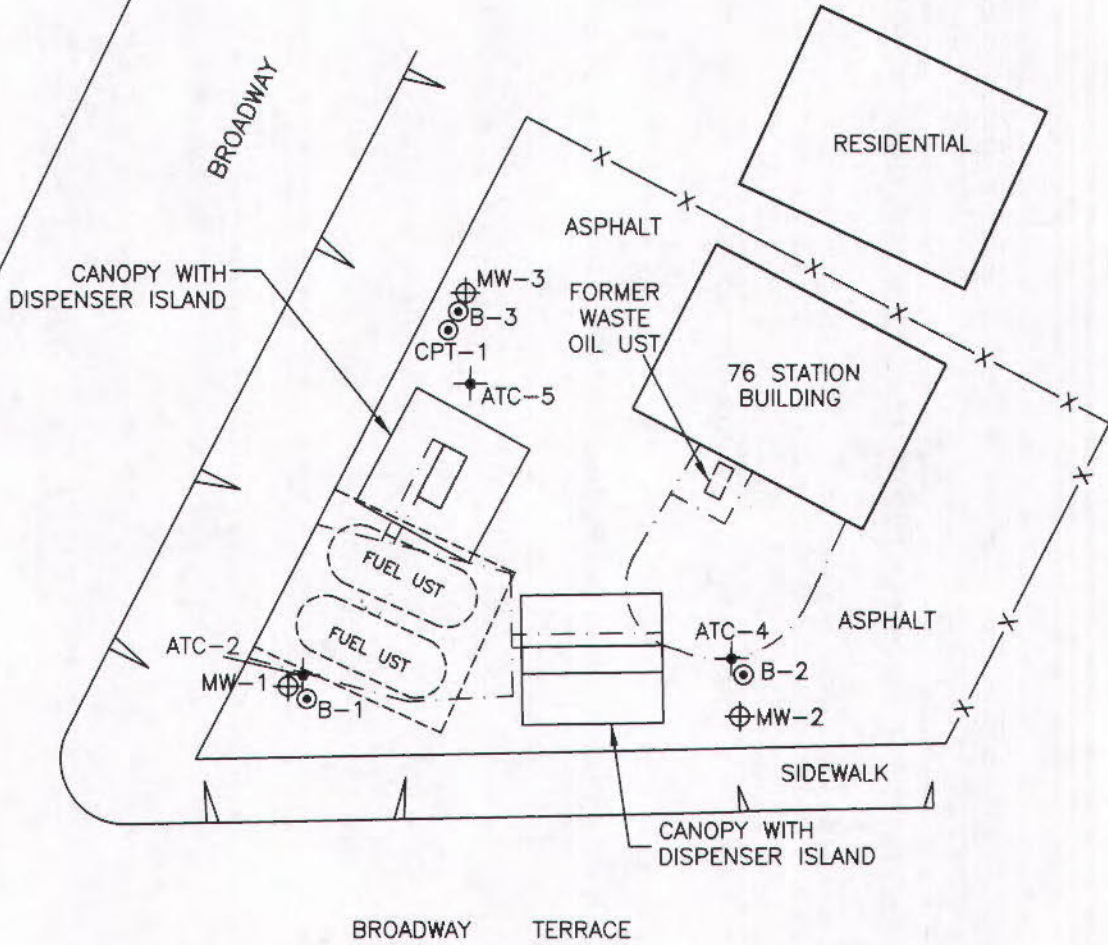
FIGURE 1
SITE LOCATION MAP

76 STATION NO. 1028
 5300 BROADWAY AVENUE
 OAKLAND, CALIFORNIA

PROJECT NO. 140251028	PREPARED BY NP	DRAWN BY JH
DATE 04/19/10	REVIEWED BY LH	FILE NAME 1028-Topo



SOURCE: USGS 7.5 MINUTE TOPOGRAPHIC MAP, OAKLAND EAST QUADRANGLE (1973)



LEGEND:

- MW-3 ⊕ MONITORING WELL (DELTA 2010)
- B-3 ● SOIL BORING (DELTA 2010)
- ATC-5 † SOIL BORING (ATC 2007)
- ▭ LIMITS OF EXCAVATION (ANTEA 2011)

SITE MAP ADAPTED FROM A SURVEY BY MIDCOAST ENGINEERS, DECEMBER 2010 AND A SITE MAP BY ATC ASSOCIATES, 2007.

**FIGURE 2
SITE MAP**

76 STATION NO. 1028
5300 BROADWAY
OAKLAND, CALIFORNIA

PROJECT NO. 140251028	PREPARED BY NaP	DRAWN BY JH
DATE 05/17/11	REVIEWED BY LH	FILE NAME 1028-Site



TABLE 1
SUMMARY OF SOIL ANALYTICAL DATA
 ConocoPhillips Site No. 251028
 5300 Broadway Avenue, Oakland, California

Sample ID	Sample Depth (feet bgs)	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylenes	Other HVOC	Oxyaromatics	TPH-GRO	TPH-DRO	Lead
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
			EPA 8260B					EPA 8015B Modified		EPA 8010B	
ATC-2d5.0	5	09/27/07	<0.005	<0.005	<0.005	<0.005	All analytes ND.	All analytes ND.	1.4	23	11.3
ATC-4d10.0	10	09/27/07	<0.005	<0.005	<0.005	<0.005	methylene chloride (0.007)	All analytes ND.	<1.0	<12	16.7
ATC-5d5.0	5	09/27/07	<0.005	<0.005	0.007	<0.005	All remaining analytes ND.	All analytes ND.	5.2	<12	13.8
ATC-5d10.0	10	09/27/07	<0.005	<0.005	<0.005	<0.005	All analytes ND.	All analytes ND.	<1.0	<12	9.63
<p>Notes:</p> <ul style="list-style-type: none"> bgs - Below ground surface. mg/kg - Milligrams per kilogram (equivalent to parts per million). HVOC - Halogenated volatile organic compounds. * - Only compounds detected at a concentration exceeding their respective laboratory method Limit of Quantitation (LOQ) are noted TPH - Total petroleum hydrocarbons. TPH-GRO - Gasoline range organic hydrocarbons. TPH-DRO - Diesel range organic hydrocarbons. EPA - Environmental Protection Agency <0.005 - Analyte not detected above specific laboratory method LOQ ND - Analyte not detected above specific laboratory method LOQ 											

ATTACHMENT 3

TABLE 2
SUMMARY OF GROUNDWATER ANALYTICAL DATA
 ConocoPhillips Site No. 251028
 5300 Broadway Avenue, Oakland, California

Sample ID	Sample Date	Benzene	Toluene	Ethylbenzene	Total Xylene	Other HVOC	Organates	TPH-GRO	TPH-DRO	
		(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	
		EPA 8260B					EPA 8015B Modified			
ATC-2	09/27/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	73	15,000	
B-2**	09/27/07	<5	<5	<5	<5	All analytes ND.	All analytes ND.	69	25,000	
ATC-5	09/27/07	<5	<5	45	6	All remaining analytes ND.	All analytes ND.	5,300	18,000	

Notes:

- µg/L - Micrograms per liter (equivalent to parts per billion).
- HVOC - Halogenated volatile organic compounds.
- * - Only compounds detected at a concentration exceeding their respective laboratory method Limit of Quantitation (LOQ) are noted.
- TPH - Total petroleum hydrocarbons.
- TPH-GRO - Gasoline range organic hydrocarbons.
- TPH-DRO - Diesel range organic hydrocarbons.
- EPA - Environmental Protection Agency
- <5 - Analyte not detected above specific laboratory method LOQ.
- ND - Analyte not detected above specific laboratory method LOQ.
- ** - Duplicate groundwater sample collected from boring ATC-2.

ATTACHMENT 4

Table 1
Summary of Soil Analytical Data
76 Branded Service Station No. 1028
5300 Broadway
Oakland California

Sample ID	Date	Time	Depth	GRO	DRO (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)	MTBE (mg/kg)	TBA (mg/kg)	ETBE (mg/kg)	DIPE (mg/kg)	TAME (mg/kg)	Ethanol (mg/kg)	EDB (mg/kg)	1,2-DCA (mg/kg)	Total Lead (mg/kg)
B-1@4.5-5_20101207	12/7/2010	15:43	4.5-5	<0.13	3.3	<0.0016	<0.0016	<0.0016	<0.0048	<0.0016	<0.0081	<0.0016	<0.0016	<0.0016	<0.21	<0.0016	<0.0016	NA
B-1@7.5-8_20101207	12/7/2010	15:38	7.5-8	<0.25	<1.9	<0.0030	<0.0030	<0.0030	<0.0091	<0.0030	<0.015	<0.0030	<0.0030	<0.0030	<0.41	<0.0030	<0.0030	NA
B-1@14.5-15_20101207	12/7/2010	16:17	14.5-15	<0.28	<2.0	<0.0034	<0.0034	<0.0034	<0.010	<0.0034	<0.017	<0.0034	<0.0034	<0.0034	<0.45	<0.0034	<0.0034	NA
B-2@3.5-4_20101208	12/8/2010	9:18	3.5-4	<0.24	<2.0	<0.0029	<0.0029	<0.0029	<0.0088	<0.0029	<0.015	<0.0029	<0.0029	<0.0029	<0.39	<0.0029	<0.0029	NA
B-2@4.5-5_20101208	12/8/2010	9:08	4.5-5	<0.26	<2.0	<0.0031	<0.0031	<0.0031	<0.0094	<0.0031	<0.016	<0.0031	<0.0031	<0.0031	<0.42	<0.0031	<0.0031	NA
B-2@6-6.5_20101208	12/8/2010	9:25	6-6.5	<0.20	<1.9	<0.0024	<0.0024	<0.0024	<0.0071	<0.0024	<0.012	<0.0024	<0.0024	<0.0024	<0.31	<0.0024	<0.0024	NA
B-2@12.5-13_20101208	12/8/2010	9:39	12.5-13	<0.20	<2.0	<0.0024	<0.0024	<0.0024	<0.0072	<0.0024	<0.012	<0.0024	<0.0024	<0.0024	<0.32	<0.0024	<0.0024	NA
B-3@4.5-5_20101207	12/7/2010	8:00	4.5-5	<0.26	2.0	<0.0031	<0.0031	<0.0031	<0.0094	<0.0031	<0.016	<0.0031	<0.0031	<0.0031	<0.42	<0.0031	<0.0031	NA
B-3@7.5-8_20101207	12/7/2010	8:09	7.5-8	<0.26	<2.0	<0.0031	<0.0031	<0.0031	<0.0094	<0.0031	<0.016	<0.0031	<0.0031	<0.0031	<0.42	<0.0031	<0.0031	NA
B-3@17.5-18_20101207	12/7/2010	9:00	17.5-18	<0.41	<1.9	<0.0049	<0.0049	<0.0049	<0.015	<0.0049	<0.025	<0.0049	<0.0049	<0.0049	<0.66	<0.0049	<0.0049	NA
MW-1@5-5.5_20101207	12/7/2010	11:30	5-5.5	<0.19	2.0	<0.0023	<0.0023	<0.0023	<0.0068	<0.0023	<0.011	<0.0023	<0.0023	<0.0023	<0.30	<0.0023	<0.0023	NA
MW-1@7.5-8_20101207	12/7/2010	11:37	7.5-8	<0.18	<2.0	<0.0022	<0.0022	<0.0022	<0.0067	<0.0022	<0.011	<0.0022	<0.0022	<0.0022	<0.30	<0.0022	<0.0022	NA
MW-1@11.5-12_20101207	12/7/2010	12:05	11.5-12	<0.35	<2.0	<0.0042	<0.0042	<0.0042	<0.013	<0.0042	<0.021	<0.0042	<0.0042	<0.0042	<0.56	<0.0042	<0.0042	NA
MW-2@1.5-2_20101208	12/8/2010	10:28	1.5-2	<0.18	<2.0	<0.0022	<0.0022	<0.0022	<0.0065	<0.0022	<0.011	<0.0022	<0.0022	<0.0022	<0.29	<0.0022	<0.0022	NA
MW-2@4.5-5_20101208	12/8/2010	10:23	4.5-5	<0.23	<2.0	<0.0027	<0.0027	<0.0027	<0.0081	<0.0027	<0.014	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	NA
MW-2@7.5-8_20101208	12/8/2010	10:37	7.5-8	<0.24	447	<0.0028	<0.0028	<0.0028	<0.0085	<0.0028	<0.014	<0.0028	<0.0028	<0.0028	<0.38	<0.0028	<0.0028	NA
MW-2@11.5-12_20101208	12/8/2010	10:45	11.5-12	<0.20	<2.0	<0.0024	<0.0024	<0.0024	<0.0071	<0.0024	<0.012	<0.0024	<0.0024	<0.0024	<0.31	<0.0024	<0.0024	NA
MW-3@4.5-5_20101206	12/6/2010	12:52	4.5-5	<0.18	<2.0	<0.0021	<0.0021	<0.0021	<0.0064	<0.0021	<0.011	<0.0021	<0.0021	<0.0021	<0.29	<0.0021	<0.0021	NA
MW-3@9.5-10_20101206	12/6/2010	12:55	9.5-10	<0.22	<2.0	<0.0027	<0.0027	<0.0027	<0.0080	<0.0027	<0.013	<0.0027	<0.0027	<0.0027	<0.36	<0.0027	<0.0027	NA
MW-3@11.5-12_20101206	12/6/2010	12:59	11.5-12	<0.19	<1.9	<0.0022	<0.0022	<0.0022	<0.0067	<0.0022	<0.011	<0.0022	<0.0022	<0.0022	<0.30	<0.0022	<0.0022	NA
COMP ABCD	12/8/2010	11:35	NA	<0.24	119	<0.0029	<0.0029	<0.0029	<0.0086	<0.0029	NA	NA	NA	NA	NA	NA	NA	8.9
Residential ESL (shallow soil)	--	--	<3m	83	83	0.044	2.9	2.3	2.3	0.023	0.075	NA	NA	NA	NA	0.00033	0.0045	200

NOTES

Depth measured in feet below ground surface

Bold concentrations indicate detections over laboratory reporting limit

mg/kg

milligrams per kilogram

MTBE

methyl tertiary butyl ether

TBA

tertiary buty alcohol

ETBE

ethyl tertiary butyl ether

DIPE

di-isopropyl ether

TAME

tertiary amyl ethyl ether

EDB

ethylene dibromide

1,2-DCA

1,2-dichloroethane

ESL

Regional Water Quality Control Board - San Francisco Region Environmental Screening Level

ESL based on residential land use, shallow soil, and groundwater as a potential drinking resource.

TABLE 2
 HISTORICAL GROUNDWATER GAUGING AND ANALYTICAL DATA
 76 Service Station No. 1028
 5300 BROADWAY AVE
 OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA														
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	DRO (ug/L)	GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)	
MW-1	12/21/2010	176.62	1.16	NP	175.46	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	2/17/2011	176.62	1.29	NP	175.33	56.8	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	4/4/2011	176.62	1.53	NP	175.09	<50.0	119	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/8/2011	176.62	2.50	NP	174.12	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
MW-2	12/21/2010	181.36	4.19	NP	177.17	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	2/17/2011	181.36	4.10	NP	177.26	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	4/4/2011	181.36	4.35	NP	177.01	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/8/2011	181.36	4.72	NP	176.64	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
MW-3	12/21/2010	176.40	2.08	NP	174.32	74.4	<50.0	<0.50	<0.50	<0.50	<1.5	0.87	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	2/17/2011	176.40	2.20	NP	174.20	<50.0	52.1	<0.50	<0.50	<0.50	<1.5	2.5	<0.50	<0.50	<0.50	7.5	<250	<1.0	<1.0	
	4/4/2011	176.40	3.15	NP	173.25	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	0.92	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	
	8/8/2011	176.40	3.52	NP	172.88	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	1.2	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0	

Gauging Notes:

TOC - Top of Casing
 ft - Feet
 NP - LNAPL not present
 LNAPL - Light non-aqueous phase liquid
 * - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
 --- No information available

Analytical Notes:

< - Not detected at or above indicated laboratory reporting limit
 ug/L - micrograms/liter
 DRO - diesel range organics
 GRO - gasoline range organics
 MTBE - Methyl tertiary-butyl ether
 TBA - Tertiary-butyl alcohol
 DIPE - Di-isopropyl ether
 ETBE - Ethyl tertiary-butyl ether
 TAME - Tertiary-amyl methyl ether

TABLE 1
CURRENT GROUNDWATER GAUGING AND ANALYTICAL DATA
76 Service Station No. 1028
5300 BROADWAY AVE
OAKLAND, CALIFORNIA



Well I.D.	Date	GROUNDWATER GAUGING DATA				GROUNDWATER ANALYTICAL DATA													
		TOC Elevation (ft)	Depth to Water (ft)	LNAPL Thickness (ft)	Water Elevation* (ft)	DRO (ug/L)	GRO (ug/L)	Benzene (ug/L)	Toluene (ug/L)	Ethylbenzene (ug/L)	Total Xylenes (ug/L)	MTBE (ug/L)	DIPE (ug/L)	ETBE (ug/L)	TAME (ug/L)	TBA (ug/L)	Ethanol (ug/L)	1,2-Dibromoethane (EDB) (ug/L)	1,2-Dichloroethane (ug/L)
MW-1	8/8/2011	176.62	2.50	NP	174.12	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-2	8/8/2011	181.36	4.72	NP	176.64	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	<0.50	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0
MW-3	8/8/2011	176.40	3.52	NP	172.88	<50.0	<50.0	<0.50	<0.50	<0.50	<1.5	1.2	<0.50	<0.50	<0.50	<5.0	<250	<1.0	<1.0

Gauging Notes:

TOC - Top of Casing
ft - Feet
NP - LNAPL not present
LNAPL - Light non-aqueous phase liquid
* - Corrected for LNAPL if present (assumes LNAPL specific gravity = 0.75)
-- - No information available

Analytical Notes:

< - Not detected at or above indicated laboratory reporting limit
ug/L - micrograms/liter
DRO- diesel range organics
GRO- gasoline range organics
MTBE- Methyl tertiary-butyl ether
TBA- Tertiary-butyl alcohol
DIPE- Di-isopropyl ether
ETBE- Ethyl tertiary-butyl ether
TAME- Tertiary-amyl methyl ether

LOG OF BORING ATC-2

SHEET 1 OF 1

Client ConocoPhillips Company
 Project Name Conoco Phillips Site No. 251028
 Number 34.75118.3103
 Location 5300 Broadway Avenue, Oakland, CA

Drill Contractor Cascade Drilling Inc.
 Drill Method Geoprobe
 Drilling Started 9/27/07 Ended 9/27/07
 Logged By Jonathan Flomerfelt

Elevation (ft amsl)
 Total Depth 13
 Depth To Water ▽ **ATD 7**

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						Airknifed to 5' bgs. No sample recovery.	
5	NR B-2-5		0.0			CLAYEY GRAVEL. 75% gravel. 25% clay. Yellow. Wet. Angular gravel.	5
10	CT B-2-10		0.0	GP			10
						90% gravel. 10% clay.	
15	CT B-2-13		0.0			Bottom of hole at 13 feet	15



LOG A EWIND5 251028 BORING LOGS.GPJ LOG A EWIND5.GDT 11/1/07

VATC ASSOCIATES INC.
 9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at 7' bgs. Refusal at approximately 13' bgs.
 See key sheet for symbols and abbreviations used above.

LOG OF BORING ATC-4

SHEET 1 OF 1

Client ConocoPhillips Company

Drill Contractor Cascade Drilling Inc.

Project Name Conoco Phillips Site No. 251028

Drill Method Geoprobe

Elevation (ft amsl) --

Number 34.75118.3103

Drilling Started 9/27/07 Ended 9/27/07

Total Depth 10

Location 5300 Broadway Avenue, Oakland, CA

Logged By Jonathan Flomerfelt

Depth To Water

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						Airknifed to 5' bgs. No sample recovery.	
5	CT B-4-5		0.0		GP	SANDY GRAVEL. 70% gravel. 30% sand. Brown. Dry.	5
10	CT B-4-10		0.0			Bottom of hole at 10 feet	10
15							15
20							20
25							25



LOG A EWN005 251028 BORING LOGS.GPJ LOG A EWN005.GDT 11/1/07

VATC ASSOCIATES INC. 9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : No groundwater encountered. Refusal at approximately 10' bgs.

See key sheet for symbols and abbreviations used above.

LOG OF BORING ATC-5

SHEET 1 OF 1

Client ConocoPhillips Company
 Project Name Conoco Phillips Site No. 251028
 Number 34.75118.3103
 Location 5300 Broadway Avenue, Oakland, CA

Drill Contractor Cascade Drilling Inc.
 Drill Method Geoprobe
 Drilling Started 9/27/07 Ended 9/27/07
 Logged By Jonathan Flomerfelt

Elevation (ft amsl)
 Total Depth 10
 Depth To Water ▽ ATD 7

DEPTH (feet)	SAMPLE NO.	BLOWS/6"	PID (ppm)	USCS	LITHOLOGY	DESCRIPTION	DEPTH FEET
						Airknifed to 5' bgs. No sample recovery.	
5	CT B-5-5		33.8			GRAVELLY SAND. 70% sand. 30% gravel. Brownish yellow. Wet.	5
			99.1	SP			
10	CT B-5-10		396	GM		SILTY GRAVEL. 70% gravel. 30% silt. Light yellowish brown. Dry to damp. Shale bedrock fragments.	10
						Bottom of hole at 10 feet	



Brad E. Morgan

LOG A EWNN05 251028 BORING LOGS.GPJ LOG A EWNN05.GDT 11/1/07

VATC ASSOCIATES INC.
 9185 S. Farmer Ave., Ste 107
 Tempe, Arizona 85284
 Phone: 480.894.2056
 Fax: 480.894.2497

Remarks : Groundwater encountered at 7' bgs.
 See key sheet for symbols and abbreviations used above.



Project No: I40251028 Client: COP/ELT
 Logged By: Nadine Periat Location: 5300 Broadway, Oakland, CA
 Driller: Cascade Drilling, LP Date Drilled: 12/7/2010
 Drilling Method: Hollow Stem Auger Hole Diameter: 8 inches
 Sampling Method: Direct Push Hole Depth: 12 feet
 Casing Type: Sch 40 PVC Well Diameter: 2 inches
 Slot Size: 0.02 Well Depth: 12 feet
 Gravel Pack: #3 Sand Casing Stickup: NA

Well/ Boring ID: MW-1
 Page 1 of 1

Location Map
 See Attached Site Map

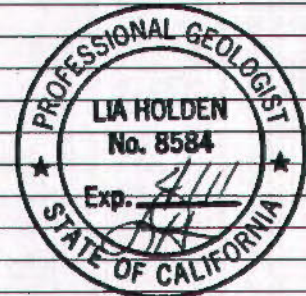
Elevation Northing Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
	▼				1		GP	Concrete
		Moist			1		GP	Poorly Graded Gravel with Sand, brown, 60% gravel, 35% coarse sand, 5% fines.
					2		CL	Lean Clay, black, <5% sand, medium plasticity, roots
	▽	Moist			2		GC	Clayey Gravel, brown, 70% fine angular gravel, 30% fines
					3			Gravel is fractured shale bedrock, up to 1" diameter fluffy texture, could be artificial fill, 4-6" cobbles at 3', some red chert and granitic rock fragments
		Wet			4			Shale Bedrock, brown-gray, vertical fracture planes similar to those observed in MW-2, strike and dip are not possible due to depth.
		Wet	0.1		5			As above, veins of soft, crystalline white precipitate
		Wet			6			
		Wet	0.1		7			
		Wet			8			
		Moist	0.1		9			
		Moist			10			As above, no precipitate
		Moist	0.2		11			
					12			

Bottom of Boring at 12 feet below grade

Legend:

- Portland Cement
- Bentonite Seal
- #3 Sand Pack
- Blank Casing
- 0.02 inch Screen
- First Encountered Groundwater
- Static Groundwater











Project No: I40251028 Client: COP/ELT Well/ Boring ID: MW-2
 Logged By: Nadine Periat Location: 5300 Broadway, Oakland, CA Page 1 of 1
 Driller: Cascade Drilling, LP Date Drilled: 12/8/2010
 Drilling Method: Hollow Stem Auger Hole Diameter: 8 inches
 Sampling Method: Direct Push Hole Depth: 12 feet
 Casing Type: Sch 40 PVC Well Diameter: 2 inches
 Slot Size: 0.02 Well Depth: 12 feet
 Gravel Pack: #3 Sand Casing Stickup: NA

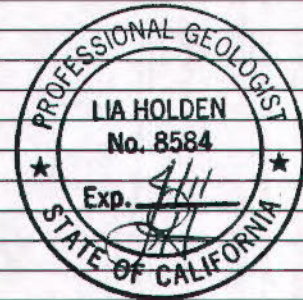
Location Map
 See Attached Site Map

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/ft)	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
									Asphalt
			damp 0.4			1		GP	Poorly Graded Gravel with Sand, brown, 60% gravel, 35% coarse sand, 5% fines.
			damp 0.4			2			Air knife refusal at 1.5 feet below grade.
			damp 0.5			3			Shale Bedrock, brown-gray, fractured but not weathered vertical fracture planes striking ~250° and 346° bedding planes have 260° strike and 18° SE dip.
			damp 0.3			4			
			damp 0.3			5			As above
			damp 0.5			6			
			damp 0.4			7			
			damp 0.5			8			As above, more difficult to drill through.
			damp 0.4			9			
			damp 0.5			10			As above, sampling rods nearly stuck in hole,
			damp 0.4			11			
						12			sampling refusal at 12 feet.

Bottom of Boring at 12 feet below grade
 Groundwater not encountered during drilling.

Legend:

-  Portland Cement
-  Bentonite Seal
-  #3 Sand Pack
-  Blank Casing
-  0.02 inch Screen
-  Static Groundwater





Project No: I40251028 Client: COP/ELT
 Logged By: Nadine Periat Location: 5300 Broadway, Oakland, CA
 Driller: Cascade Drilling, LP Date Drilled: 12/6/2010
 Drilling Method: Hollow Stem Auger Hole Diameter: 8 inches
 Sampling Method: Direct Push Hole Depth: 12 feet
 Casing Type: Sch 40 PVC Well Diameter: 2 inches
 Slot Size: 0.02 Well Depth: 12 feet
 Gravel Pack: #3 Sand Casing Stickup: NA








Well Boring ID: MW-3
 Page 1 of 1

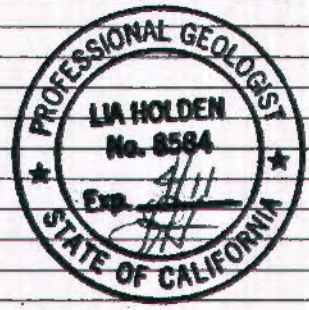
Location Map
 See Attached Site Map

Well Completion		Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/ft)	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing								
			Moist			1	GC	Asphalt	Clayey Gravel, brown-orange mottled, 60% coarse gravel, 40% fines clay has medium plasticity.
		▽	Moist			2	CL		Lean Clay with Gravel, brown orange mottled, 15% cobbles, clay is sticky and difficult to air knife through, cobbles are red chert.
		▽	Moist			3			Shale bedrock, clayey, ~3" angular cobbles, clay in bedrock fractures
			Moist			4			
			Moist	1		5			As above, rock is dry, slough is wet, some clay veins in bedrock, may be from pulverization in sampler, rock is red oxidized.
			Moist			6			
			Moist			7			
			Moist			8			
			Moist			9			
			Moist	1.2		10			
			Moist	0.4		11			As above, less weathered.
						12			

Bottom of Boring at 12 feet below grade

Legend:

-  Portland Cement
-  Bentonite Seal
-  #3 Sand Pack
-  Blank Casing
-  0.02 inch Screen
-  First Encountered Groundwater
-  Static Groundwater



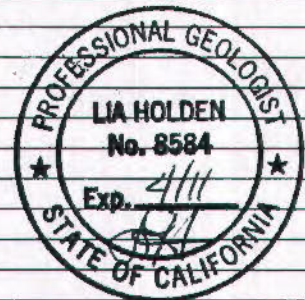


Project No: I40251028	Client: COP/ELT	Well/ Boring ID: B-1	
Logged By: Nadine Periat	Location: 5300 Broadway, Oakland, CA	Page 1 of 1	
Driller: Cascade Drilling, LP	Date Drilled: 12/7/2010	Location Map See Attached Site Map	
Drilling Method: Direct Push	Hole Diameter: 3 inches		
Sampling Method: Direct Push	Hole Depth: 15 feet		
Casing Type: NA	Well Diameter: NA		
Slot Size: NA	Well Depth: NA		
Gravel Pack: NA	Casing Stickup: NA		
Elevation		Northing	Easting

Well Completion Backfill Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	LITHOLOGY / DESCRIPTION				
	▽	wet			1	↑	GP	Concrete				
											GP	Poorly Graded Gravel with Sand, brown, 60% gravel, 35% coarse sand, 5% fines.
											CL	Lean Clay, black, <5% sand, medium plasticity, roots
											GC	Clayey Gravel, brown, 70% fine angular gravel, 30% fines
												Gravel is fractured shale bedrock, up to 1" diameter fluffy texture, could be artificial fill, 4-6" cobbles at 3', some red chert and granitic angular gravel
												Shale Bedrock, brown-gray, vertical fracture planes with horizontal bedding, well indurated.
												No Recovery - Acetate liner crushed.
								0.4				As above (shale bedrock)
								0.4				As above (shale bedrock)
								0.6				
								0.7				As above (shale bedrock)
								0.6				
												Geoprobe refusal at 14 feet
												Hydropunch to 15 feet, no sample recovery.

Legend:

- Portland Cement
- First Encountered Groundwater





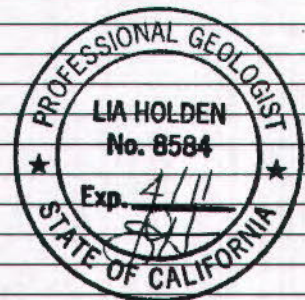
Project No: I40251028	Client: COP/ELT	Well/ Boring ID: B-2
Logged By: Nadine Periat	Location: 5300 Broadway, Oakland, CA	Page 1 of 1
Driller: Cascade Drilling, LP	Date Drilled: 12/7/2010	Location Map See Attached Site Map
Drilling Method: Direct Push	Hole Diameter: 3 inches	
Sampling Method: Direct Push	Hole Depth: 13 feet	
Casing Type: NA	Well Diameter: NA	
Slot Size: NA	Well Depth: NA	
Gravel Pack: NA	Casing Stickup: NA	

Well Completion		Static Water Level	Elevation			Northing		Easting		Soil Type	LITHOLOGY / DESCRIPTION
Backfill	Casing		Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Recovery	Interval			
										Asphalt	
		damp				1			GP	Poorly Graded Gravel with Sand, brown, 60% small gravel 35% coarse sand, 5% fines (base rock) Air kfe refusal at 2.5 feet below grade.	
		damp				2				Shale Bedrock, brown-gray, fractured but not weathered vertical fracture planes striking ~250° and 346° bedding planes have 260° strike and 18° SE dip.	
			0.2			3					
						4					
		moist				5				As above, moist in center of core, dry on outside.	
			0.4			6					
						7					
		moist				8				As above	
			0.4			9					
						10					
			0.6			11					
		damp				12				As above	
			0.3			13				Refusal at 13 feet below grade, groundwater not encountered	

Bottom of Boring at 13 Feet Below Grade

Legend:

 Portland Cement





Project No: I40251028 Client: COP/ELT
 Logged By: Nadine Periat Location: 5300 Broadway, Oakland, CA
 Driller: Cascade Drilling, LP Date Drilled: 12/7/2010
 Drilling Method: Direct Push Hole Diameter: 3 inches
 Sampling Method: Direct Push Hole Depth: 18 feet
 Casing Type: NA Well Diameter: NA
 Slot Size: NA Well Depth: NA
 Gravel Pack: NA Casing Stickup: NA

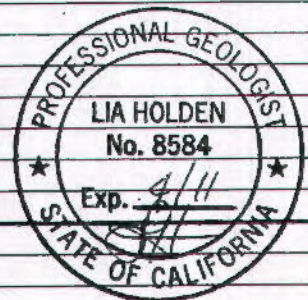
Well/ Boring ID: B-3
Page 1 of 1

Location Map

See Attached Site Map

Well Completion		Elevation			Northing		Easting		LITHOLOGY / DESCRIPTION
Backfill	Casing	Static Water Level	Moisture Content	PID Reading (ppm)	Penetration (blows/6")	Depth (feet)	Sample Recovery Interval	Soil Type	
		▽	wet			0			Asphalt
			wet			1		GC	Clayey Gravel, brown-orange mottled, 60% coarse gravel, clay has medium plasticity.
			wet			2		CL	Lean Clay with Gravel, brown orange mottled, 15% cobbles, clay is sticky and difficult to air knife through, cobbles are red chert.
			wet			3			Shale Bedrock, slightly weathered, 15% clay, clay in bedrock fractures
			wet	0.4		4			
			wet			5			As above
			moist	0.3		6			
			damp			7			
			damp	0.4		8			As above
			damp	0.3		9			
			damp	0.3		10			
			damp	0.3		11			
			damp	0.3		12			As above, less clayey, much harder rock, coming out of sampler as fine gravel, pulverized by sampler. Acetate liner damaged, rocks stuck in sampler
			damp	0.3		13			
			damp	0.4		14			
			damp	0.4		15			
			damp	0.4		16			
			damp	0.4		17			As above
			damp	0.4		18			

Bottom of Boring at 18 Feet Below Grade



Legend:

- Portland Cement
- First Encountered Groundwater

