Detterman, Mark, Env. Health

From: Sami Malaeb [s.malaeb@comcast.net]
Sent: Wednesday, October 16, 2013 11:14 AM

To: Detterman, Mark, Env. Health

Cc: britpete@aol.com

Subject: RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation;

Additional Soil Bores

Attachments: Figure 22 Locations of Borings 10.16.13).pdf; TABLE 1 (Soil Analytical Results for Offisite

borings)).pdf; TABLE 2 (Groundwater Analytical Results 07.02 and 07.03, 2013)).pdf; BH-23

Boring Log (09.27.2013).pdf; BH-24 Boring Log (09.27.2013).pdf; BH-25 Boring Log

(09.27.2013).pdf

Hi Mark:

This email is to summarize the latest drilling and sampling activities at the site located at 2145 35th Avenue in Oakland. As planned, we drilled borings BH23, BH24, and BH25 on September 27, 2013. No petroleum hydrocarbons were detected in soil or groundwater. Attached please find an updated and corrected figure showing the locations of the borings and projected groundwater plume. Also, we attached updated tables for the offsite boring soil and groundwater results and the boring logs.

What is worth mentioning is that in drilling borings BH24 and BH25, soil color approximately between 12 to 16 feet below surface grade was greenish gray with no odor or detection of petroleum hydrocarbons. This would indicate plume bio- attenuation at these locations. At this point we conclude that enough borings were drilled to predict the extent of the plume and no further borings are needed. We plan to start preparing the offsite soil and groundwater investigation report to document the drilling in July and September of this year. In this report, we plan to update the conceptual site model, including the sensitive receptor and well survey and present the conclusions and recommendations.

Due to the needed time for offsite access, we request an extension to submit the soil and groundwater investigation report from October 25, 2013 to December 6, 2013. That is an extension of approximately 45 days. I will call you to discuss this email.

Thanks,

Regards,

EEC

Sami Malaeb, PE, QSP/QSD Cell: (925) 858-9608

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]

Sent: Wednesday, September 25, 2013 2:15 PM

To: 'Sami Malaeb'
Cc: britpete@aol.com

Subject: RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil

Bores

Thanks Sami. The figure looks good.

Mark Detterman Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm

From: Sami Malaeb [mailto:s.malaeb@comcast.net]
Sent: Wednesday, September 25, 2013 11:18 AM

To: Detterman, Mark, Env. Health

Cc: britpete@aol.com

Subject: RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil

Bores

Hi Mark:

I was successful getting a permission to drill behind the neighboring Apartment building and on 35th Avenue. The drilling date is scheduled for this Friday, September 27, 2013. On Friday, we will complete three borings (BH23, BH24, and BH25). See the attached figure. I will discuss the analytical results for the soil and groundwater from these borings with you once I receive them.

Let me know if you have any questions.

Regards,

EEC

Sami Malaeb, PE, QSP/QSD Cell: (925) 858-9608

From: Sami Malaeb [mailto:s.malaeb@comcast.net]

Sent: Tuesday, August 20, 2013 2:34 PM

To: 'Detterman, Mark, Env. Health'

Cc: 'britpete@aol.com'

Subject: RE: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil

Bores

Hi Mark:

Thanks for your email below. Just couple of items:

- 1. The Figure you attached to your directive was not the updated one. Please see the updated figure I provided to you, attached.
- 2. Please note that an offsite utility and receptor survey has been completed and documented in the report dated August 2012 and titled "PHASE II ENVIRONMENTAL INVESTIGATION REPORT AND SUPPLEMENTAL INVESTIGATION WORKPLAN". The utilities offsite are still the same. Therefore, such a survey is still valid.

Regards,

EEC

Sami Malaeb, PE, QSP/QSD Cell: (925) 858-9608

From: Detterman, Mark, Env. Health [mailto:Mark.Detterman@acgov.org]

Sent: Tuesday, August 20, 2013 12:35 PM

To: 'Sami Malaeb'; britpete@aol.com; reinlib@aol.com; LGRIFFIN@OAKLANDNET.COM; 'mrodarte@waterboards.ca.gov'

Cc: Roe, Dilan, Env. Health

Subject: RO2945; Chevron 9-8861; 2145 35th Ave, Oakland: Soil and Groundwater Investigation; Additional Soil Bores

Sami.

Thanks for the packet of data from the most recent site investigation, including the revised aerial image of existing and proposed soil bore locations (attached). You have indicated that the aerial image provides the best depiction of soil bore locations due to the scale of the figure. As originally intended, after the submittal of the data packet it was anticipated that groundwater monitoring wells would be installed to provide downgradient delineation of the groundwater plume. While the recently installed soil bores detected potentially significant concentrations of TPH immediately offsite (up to 7,100 ug/l TPHg, 5,000 ug/l TPHss, 2,100 ug/l TPHd, and 8 ug/l benzene), they do not appear to have detected the downgradient extent of the groundwater contamination. Because the site is located in a stream valley and the subsurface is very granular, the possibility of natural preferential pathways (paleochannels such as buried stream segments) may be providing a natural conduit away from the site. ACEH is in agreement that it appears more appropriate to redirect site activities and install up to 5 additional soil bores in order to understand natural pathways in the subsurface beneath the site and vicinity. As such two limited soil bore transects have been proposed (infill of a line between BH18 and BH19, and a transect perpendicular to 35th Ave - BH19 to BH25). As discussed, due to the potential for these natural conduits, ACEH prefers soil bore transects with a spacing of no more than 20 feet in distance. ACEH understands that the bores in these two transects will be repositioned slightly in order to meet this requested spacing goal. It is understood that bores BH26 and BH27 may be repositioned to meet the spacing goal, or held in reserve in case indications of contamination are encountered in the other transects. Please note that the installation of groundwater monitoring wells has not been eliminated; it may still be appropriate to install wells downgradient of the site presuming an offsite soil or groundwater plume is identified.

While not previously requested it appears that an offsite utility conduit survey will be useful to understanding the potential downgradient extent of groundwater contamination at the site and vicinity. It is understood that approved costs may not include this scope or work. Because the information will likely prove useful, we can discuss when the work is best incorporated into the work flow. Groundwater appears to be located at depths that are coincident with typical utility installation depths and may also provide a manmade preferential pathway away from the site that may account for the apparent lack of an offsite groundwater plume. Thus the utilities should be accounted for in order to understand contaminant flow pathways. As a consequence, ACEH requests that a utility survey (location and depth) of utilities in the vicinity of the site be illustrated in future site plans. Please see Attachment A, Preferential Pathway and Sensitive Receptor Survey, but please be aware that a sensitive receptor survey is currently not requested as an offsite plume has not been documented at this time.

I've also set a delivery date for the report; however, should additional work, such as the installation of groundwater wells be needed, the date can and should be revised to allow sufficient time for the additional actions. Should that be required, please let me know.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the specified file naming convention below, according to the following schedule:

• October 25, 2013– Soil and Groundwater Investigation Report; with Revised Cross Sections; File to be named: RO2945 SWI R yyyy-mm-dd

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

Online case files are available for review at the following website: http://www.acgov.org/aceh/index.htm. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

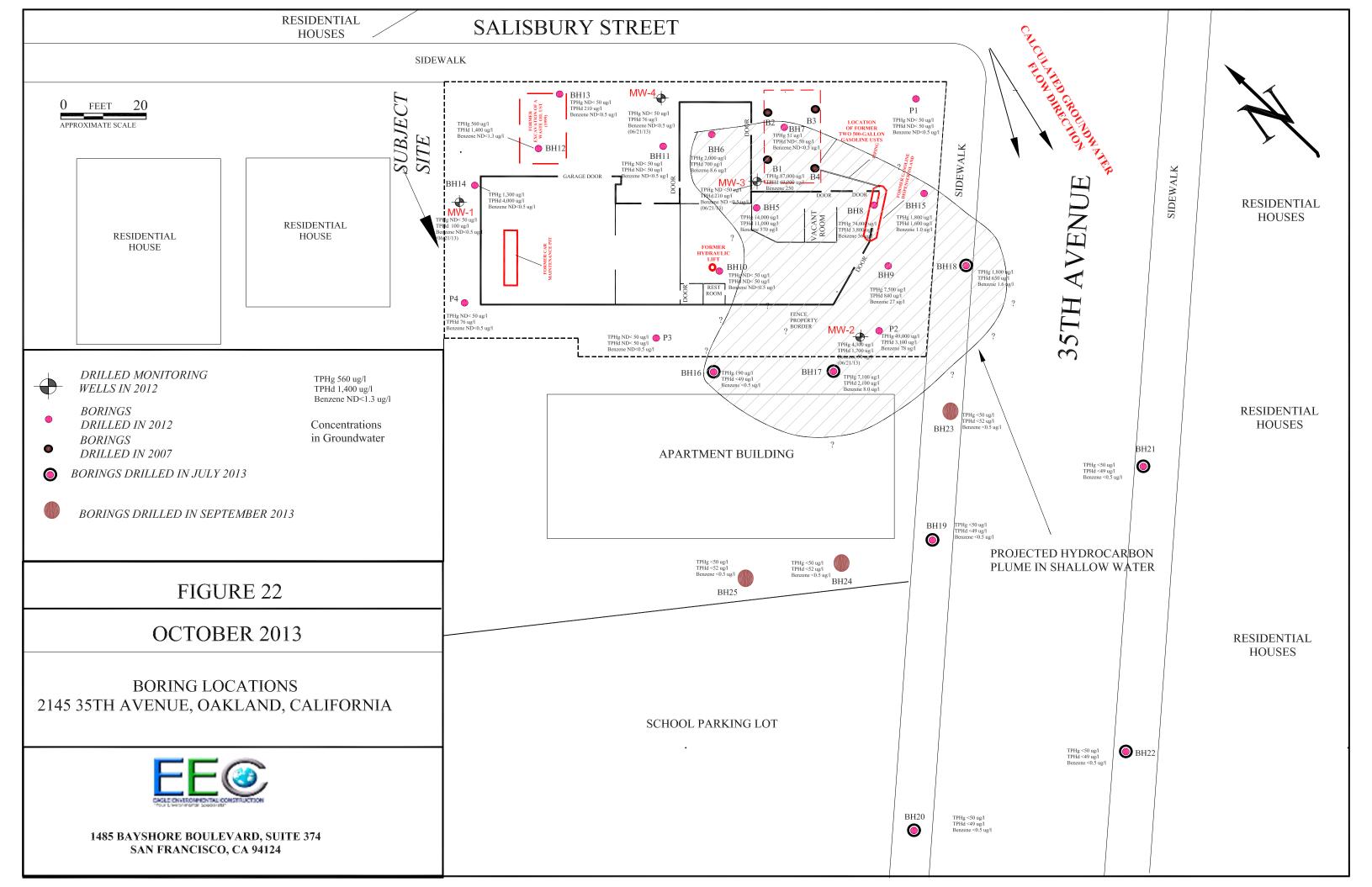
Mark Detterman Senior Hazardous Materials Specialist, PG, CEG Alameda County Environmental Health 1131 Harbor Bay Parkway Alameda, CA 94502 Direct: 510.567.6876

Direct: 510.567.6876 Fax: 510.337.9335

Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

http://www.acgov.org/aceh/lop/ust.htm



477	E(<u></u>	DRILLING DATE: 09/27/2013 DRILLING METHOD: Direct Push DRILLING RIG TYPE: Geoprobe Limited Access DRILLING RIG TYPE: Geoprobe Limited Access								
DEPTH (FEET)	SAMPLE DEPTH	SAMPLE NAME	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	LITHOLOGY DESCRIPTION DEPTH	PID READING	COMMENTS				
1_	_			7.0" concrete top, then, Clayey Gravel/Sand mixture (GC), moist, (No odor of petroleum hydrocarbons or stain)	0.0 ' to 1.5'	0.0 ppm 0.0 ppm	Fill to ~ 1.5'				
2	-	BH2.7.A		Black Clay (CH), medium stiff, moist (No odor of petroleum hydrocarbons or stain)	1.5' to 5.0 '						
567	-			Black Sandy Clay to Clayey Sand (CL), medium stiff, moist (turned brown to black between 11.0' and 13.0', no odor of petroleum hydrocarbons or stain)	5.0' to 11.0 '	0.0 ppm					
8		BHC?									
12 13 14		SH.		Brown Sand (SW) with ~10% gravel, medium dense, wet (No odor of petroleum hydrocarbons or stain)	13.0 ' to 15.0'	0.0 ppm	First Encountered Groundwater				
15			9	Brown Clayey Sand (SC) medium dense, moist	1501. 1601	0.0					
16 17 18 19 20 21 22 23 24 25	- - - -		•	(No odor of petroleum hydrocarbons or stain) BOTTOM OF BORING at 16.0'	15.0 ' to 16.0'	ppm					
		PF	 ROJE(CT NAME: Salisbury Avenue Associates, LLC	SH	EET 1 C	DF 1				

E	E(<u></u>	DRILLING DATE: 09/27/2013 DRILLING METHOD: Direct Push DRILLING RIG TYPE: Geoprobe Limited Access DRILLING RIG TYPE: Geoprobe Limited Access								
DEPTH (FEET)	SAMPLE DEPTH	SAMPLE NAME	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	LITHOLOGY DESCRIPTION DEPTH	PID READING	COMMENTS				
1			1/6/	2.0" concrete top and sand	0.0 ' to 0.5'						
23	- -			Black Clay (CH), medium stiff, moist (No odor of petroleum hydrocarbons or stain)	0.5' to 6.0 '	0.0 ppm					
4 <u> </u>	_	SHIAA									
7		STAR		Dark Brown Clay (CL) with $\sim 5\%$ gravel and coarse sand, medium stiff, moist (little to no gravel from 7.0' to 10.0', no odor of petroleum hydrocarbons or stain)	6.0' to 10.0 '	0.0 ppm					
_	-										
10 11 12		SHI A.V.		Dark Brown to Black Gravel/Sand mixture (GC), medium dense, moist to wet (No odor of petroleum hydrocarbons or stain)	10.0' to 12.0		First Encountered Groundwater				
13				Gray Clay (CL) with ~ 5% gravel and coarse sand, medium stiff, moist (No odor of petroleum hydrocarbons)	12.0' to 13.0 '	ppm b	₹				
14 15 16		OFFI A TO		Dark Gray Clayey Sand (SC) medium dense, moist to wet (No odor of petroleum hydrocarbons, color indicates bio-attenuated petroleum hydrocarbons)	13.0 ' to 16.0'		Color indicates bio-attenuated petroleum hydrocarbons between 13.0' and 16.0'				
17				BOTTOM OF BORING at 16.0'							
18											
19 <u> </u>	-										
21											
22_											
23	_										
24	-										
25_	_										
_	-										
		PF	ROJE	SH	EET 1	OF 1					

E	E(<u></u>	DRILLING DATE: 09/27/2013 DRILLING LOCATION: 2145 35th Avenue, Oakland, CA LOGGED BY: Sami Malaeb, PE, QSP/QSD DRILLING RIG TYPE: Geoprobe Limited Access CHECKED BY: David Hoexter, PG, CEG, REA								
DEPTH (FEET)	SAMPLE DEPTH	SAMPLE NAME	GRAPHIC LOG	DESCRIPTION AND CLASSIFICATION	LITHOLOGY DESCRIPTION DEPTH	PID READING	COMMENTS				
1			• • • • • • • • • • • • • • • • • • • •	Grass Area with Clayey Sand (SC), loose to medium dense, moist (with organics, no odor of petroleum hydrocarbons or stain)	0.0 ' to 1.0'	0.0					
2 <u> </u>		<i>b</i> .		Black Clay (CH), medium stiff, moist (No odor of petroleum hydrocarbons or stain)	1.0' to 4.0 '	ppm					
5 <u> </u>	-	SH T		Dark Brown Sandy Clay (CL), medium stiff, moist no odor of petroleum hydrocarbons or stain)	4.0' to 7.0 '						
8		SHIP		Dark Brown Clayey Sand (SC) medium dense, moist (No odor of petroleum hydrocarbons or stain)	7.0' to 8.0 '	0.0 ppm					
9	_	\$\frac{\pi_{1}}{2}\frac{\pi_{1}}{2}	9/ -/	No recovery	8.0' to 10.0 '	ppm					
11		SH2.12		Dark Brown to Black Clayey Sand (SC) medium dense, moist (No odor of petroleum hydrocarbon or stain)		First Encountered Groundwater					
14 15 16		882516		Greenish Gray Clayey Sand (SC) medium dense, wet (No odor of petroleum hydrocarbons, color indicates bio-attenuated petroleum hydrocarbons)	0.0 ppm	Color indicates bio-attenuated petroleum hydrocarbons between 13.0' and 16.0'					
17 <u> </u>	_			BOTTOM OF BORING at 16.0'							
19											
20_	-										
21	<u> </u>										
22_	+										
23 <u> </u>											
25											
_	_										
	•	PF	ROJE	SH	EET 1 (OF 1					

TABLE 1

SUMMARY OF CHEMICAL ANALYSES SOIL SAMPLES COLLECTED FROM THE BORINGS

DRILLED ON 07/02/2103, 07/03/2013 and 09/27/2013

PETROLEUM HYDROCARBONS, BTEX, MTBE, AND NAPHTHALENE

2145 35th Avenue, Oakland, California

Sample ID	Date Sampled	TPH-G ⁽¹⁾ (mg/kg) ⁽²⁾	TPH-ss ⁽³⁾ (mg/kg)	TPH-D ⁽⁴⁾ (mgkg)	TPH as Motor Oil (mgkg)	TPH as Hydraulic Oil (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl benzene (mg/kg)	Total Xylenes (mg/kg)	MTBE ⁽⁵⁾	Naphthalene (mg/kg)
BH16-3	07/03/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	< 0.0049
BH16-7	07/03/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	< 0.0049
BH16-10.5	07/03/2013	< 0.97	< 0.97	<1.0	< 5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH16-16	07/03/2013	< 0.99	< 0.99	<1.0	<5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH16-20	07/03/2013	<1.1	<1.1	<1.0	<5.0	<5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH17-2.5	07/03/2013	<1.1	<1.1	$3.4(Y)^6$	5.1	8.5	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH17-6	07/03/2013	$1.4(Y)^6$	<1.0	<1.0	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	0.0093
BH17-9	07/03/2013	590(Y) ⁶	410(Y) ⁶	21(Y) ⁶	6.7	16	<1.0	<1.0	2.8	<2.0	<1.0	4.4
BH17-11	07/03/2013	130(Y) ⁶	88	$2.4(Y)^6$	< 5.0	< 5.0	< 0.024	< 0.024	0.066	0.070	< 0.024	0.61
BH17-15.5	07/03/2013	<1.1	<1.1	<1.0	<5.0	<5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 0.0048
BH18-2.5	07/03/2013	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044	< 0.0044
BH18-7.5	07/03/2013	< 0.96	< 0.96	<1.0	< 5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH18-10.5	07/03/2013	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 0.0044	< 0.0044	< 0.0044	< 0.0088	< 0.0044	< 0.0044
BH18-16	07/03/2013	<1.0	<1.0	<1.0	<5.0	<5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	< 0.0049
BH19-7.5	07/02/2013	< 0.97	< 0.97	<1.0	< 5.0	< 5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 0.0048
BH19-11.5	07/02/2013	<1.0	<1.0	<1.0	< 5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH19-16	07/02/2013	< 0.93	< 0.93	<1.0	< 5.0	< 5.0	< 0.0046	< 0.0046	< 0.0046	< 0.0092	< 0.0046	< 0.0046
BH20-11	07/02/2013	< 0.94	< 0.94	$2.5(Y)^6$	18	17(Y) ⁶	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	0.0094
BH20-21	07/02/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047
BH21-11	07/02/2013	<1.1	<1.1	1.6(Y) ⁶	< 5.0	< 5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 0.0048
BH21-21.5	07/02/2013	< 0.98	< 0.98	< 0.99	< 5.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH22-11.5	07/02/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 0.0048
BH22-22	07/02/2013	<1.0	<1.0	< 0.99	< 5.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH23-4	09/27/2013	< 0.97	< 0.97	<1.0	< 5.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH23-8	09/27/2013	< 0.95	< 0.95	< 0.99	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	0.0049
BH23-11	09/27/2013	<1.1	<1.1	< 0.99	< 5.0	< 5.0	< 0.0045	< 0.0045	< 0.0045	< 0.090	< 0.0045	< 0.0045
BH24-4	09/27/2013	< 0.93	< 0.93	<1.0	< 5.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH24-8	09/27/2013	< 0.96	< 0.96	<1.0	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	0.0049
BH24-12	09/27/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0050	< 0.0050	< 0.0050	< 0.010	< 0.0050	< 0.0050
BH24-16	09/27/2013	< 0.92	< 0.92	<1.0	< 5.0	< 5.0	< 0.0048	< 0.0048	< 0.0048	< 0.0096	< 0.0048	< 0.0048
BH25-4	09/27/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0049	< 0.0049	< 0.0049	< 0.0098	< 0.0049	0.0049
BH25-8	09/27/2013	< 0.99	< 0.99	<1.0	< 5.0	< 5.0	< 0.0046	< 0.0046	< 0.0046	< 0.0092	< 0.0046	< 0.0046
BH25-12	09/27/2013	<1.1	<1.1	<1.0	< 5.0	< 5.0	< 0.0046	< 0.0046	< 0.0046	< 0.0092	< 0.0046	< 0.0046
BH25-16	09/27/2013	< 0.92	< 0.92	<1.0	< 5.0	< 5.0	< 0.0047	< 0.0047	< 0.0047	< 0.0094	< 0.0047	< 0.0047

 $TPH-G^{(1)} =$ Total petroleum hydrocarbons as gasoline by EPA Method 8015B

 $(mgkg)^{(2)} = TPH-ss^{(3)} = TPH-D^{(4)} = TPH-D^{(5)}$ Milligram per kilogram or part per million

Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8015B

Total petroleum hydrocarbons as diesel by EPA Method 8015B

Methyl Tertiary Butyl Ether

 $MTBE^{(5)} = (Y)^{(6)} =$ Sample exhibits chromatographic pattern which does not resemble standard

TABLE 2

SUMMARY OF CHEMICAL ANALYSES

GROUNDWATER SAMPLES COLLECTED FROM THE BORINGS

DRILLED ON 07/02/2103, 07/03/2013 and 09/27/2013

PETROLEUM HYDROCARBONS, BTEX, MTBE, AND NAPHTHALENE

2145 35th Avenue, Oakland, California

Sample ID	Date Sampled	TPH-G ⁽¹⁾	TPH-ss ⁽³⁾	TPH-D ⁽⁴⁾	TPH as Motor Oil	TPH as Hydraulic Oil	Benzene	Toluene	Ethyl benzene	Total Xylenes	MTBE ⁽⁵⁾	Naphthalene
		(µg/l) (2)	(μg/l)	(µg/l)	(µg/l)	(μg/l)	(μg/l)	(μg/l)	(μg/l)	(µg/l)	(µg/l)	(μg/l)
BH16-W	07/03/2013	190 (Y) ⁽⁶⁾	130 (Y) ⁽⁶⁾	<49	<290	<290	< 0.5	< 0.5	0.8	1.2	< 0.5	<2.0
BH17-W	07/03/2013	7,100 (Y) ⁽⁶⁾	5,000(Y) ⁽⁶⁾	2,100(Y) ⁽⁶⁾	<290	610 (Y)	8.0	3.0	140	340	<1.0	110
BH18-W	07/03/2013	1,800 (Y) ⁽⁶⁾	1,300(Y) ⁽⁶⁾	650 (Y)	<290	<290	1.6	< 0.5	< 0.5	1.0	< 0.5	<2.0
BH19-W	07/022013	< 50	< 50	<49	<290	<290	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH20-W	07/02/2013	< 50	< 50	<49	<290	<290	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH21-W	07/022013	< 50	< 50	<49	<290	<290	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH22-W	07/02/2013	<50	< 50	<49	<290	<290	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH23-W	09/27/2013	<50	< 50	<52	<310	<310	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH24-W	09/27/2013	< 50	< 50	<52	<310	<310	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0
BH25-W	09/27/2013	<50	< 50	<52	<310	<310	< 0.5	< 0.5	< 0.5	<1.0	< 0.5	<2.0

TPH-G $^{(1)}$ = Total petroleum hydrocarbons as gasoline by EPA Method 8015B

 $(\mu g/I)^{(2)}$ = microgram per liter or part per million

TPH-ss (3) = Total petroleum hydrocarbons as Stoddard solvent by EPA Method 8015B

TPH-D (4) = Total petroleum hydrocarbons as diesel by EPA Method 8015B

MTBE (5) = Methyl Tertiary Butyl Ether

(Y) (6) = Sample exhibits chromatographic pattern which does not resemble standard

Bold = Concentration presented in bold where such a value is at or exceeds the reporting laboratory reporting limit.