Mike Bauer
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
145 S. State College Blvd
Brea, CA 92821
Tel (714) 671-3200
Fax (714) 671-3440
mbauer@chevron.com

October 19, 2010

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: Former Signal Oil Marine Storage and Distribution Facility
(Former Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
LOP Case RO0002466

Dear Mr. Wickham:

The purpose of this letter is to verify that as a representative for Chevron Environmental Management Company (Chevron), I reviewed, and concur with, the comments in the *Third Quarter 2010 Groundwater Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by Conestoga-Rovers & Associates. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (714) 671-3207 if you have any questions.

Sincerely,

Mike Bauer
Project Manager

CONESTOGA-ROVERS
& ASSOCIATES

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
www.CRAworld.com

October 19, 2010 Reference No. 631916

Mr. Jerry Wickham
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502--6577

Re: Third Quarter 2010
Groundwater Monitoring and Sampling Report
Former Signal Oil Marine Storage and Distribution Facility
(Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
SLIC Case RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2010 Groundwater Monitoring and Sampling Report* for the site referenced above (Figure 1) on behalf of Chevron Environmental Management Company. Groundwater monitoring and sampling was performed by Gettler-Ryan (G-R) of Dublin, California. G-R's July 26, 2010 *Groundwater Monitoring and Sampling Data Package* is presented as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1. Lancaster Laboratories' August 2, 2010 *Analytical Results* are included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF THIRD QUARTER 2010 EVENT

On July 21, 2010, G-R monitored and sampled the site wells per the established schedule. Monitoring data related to this event are included in G-R's monitoring data package (Attachment A).

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — Northeasterly (Figure 2)
- Hydraulic Gradient — 0.01 to 0.02
- Depth to Water — 4.12 to 9.47 feet below grade

Results of the current sampling event are presented below in Table A:

TABLE A:
GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*	*MTBE (µg/L)*
ESLs	**100**	**100**	**1**	**40**	**30**	**20**	**5**
MW-1	**440**	65	<0.5	<0.5	<0.5	<0.5	NA
MW-2	65	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-3	**640**	65	0.6	<0.5	<0.5	<0.5	NA
MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5	NA
MW-5	**2,000**	**1,500**	**80**	2	1	2	NA

< Indicates constituent was not detected at or above stated laboratory reporting limit
µg/L Micrograms per liter
NA Not analyzed
ESLs Environmental screening levels from Table A, Environmental Screening Levels , Shallow Soils (≤3 bgs), Groundwater is Current of Potential Source of Drinking Water, in *Screening for Environmental Concerns at Sites with Contaminated Soil and Groundwater*, RWQCB-May 2008
Data in **bold** represent concentrations that exceed applicable ESLs

CONCLUSIONS AND RECOMMENDATIONS

Results of this quarterly groundwater monitoring and sampling event are consistent with the past four quarters and indicate the following:

- The highest TPHd, TPHg, and benzene concentrations in groundwater are in the area of the former fuel pumps (MW-5), north of the former aboveground storage tanks (Figures 3 through 5).
- The extent of the dissolved TPHg and benzene plume is limited to the area of MW-5. The dissolved TPHd plume is limited to the areas of wells MW-1, MW-3, and MW-5.
- The general lack of lighter end hydrocarbon constituents in groundwater suggest the remaining residual dissolved plume is old and has naturally degraded over time.
- Concentrations are generally decreasing in site wells where concentrations are detected above groundwater ESLs.

CRA recommends continuing quarterly monitoring and sampling of current wells and newly installed wells MW-1RA, MW-1RB, and MW-6 to verify decreasing concentration trends over time.

ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring
G-R will monitor and sample current site wells and newly installed wells MW-1RA, MW-1RB, and MW-6 per the established schedule. CRA will submit a groundwater monitoring and sampling report.

Indoor Air Assessment
CRA will complete a second indoor air survey in November 2010 as outlined in CRA's *Revised Vapor Sampling Plan,* dated April 1, 2010.

Please contact Brian Silva at 916 889-8908 if you have any questions or require additional information.

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES

Brian Silva

Greg Barclay, PG 6260

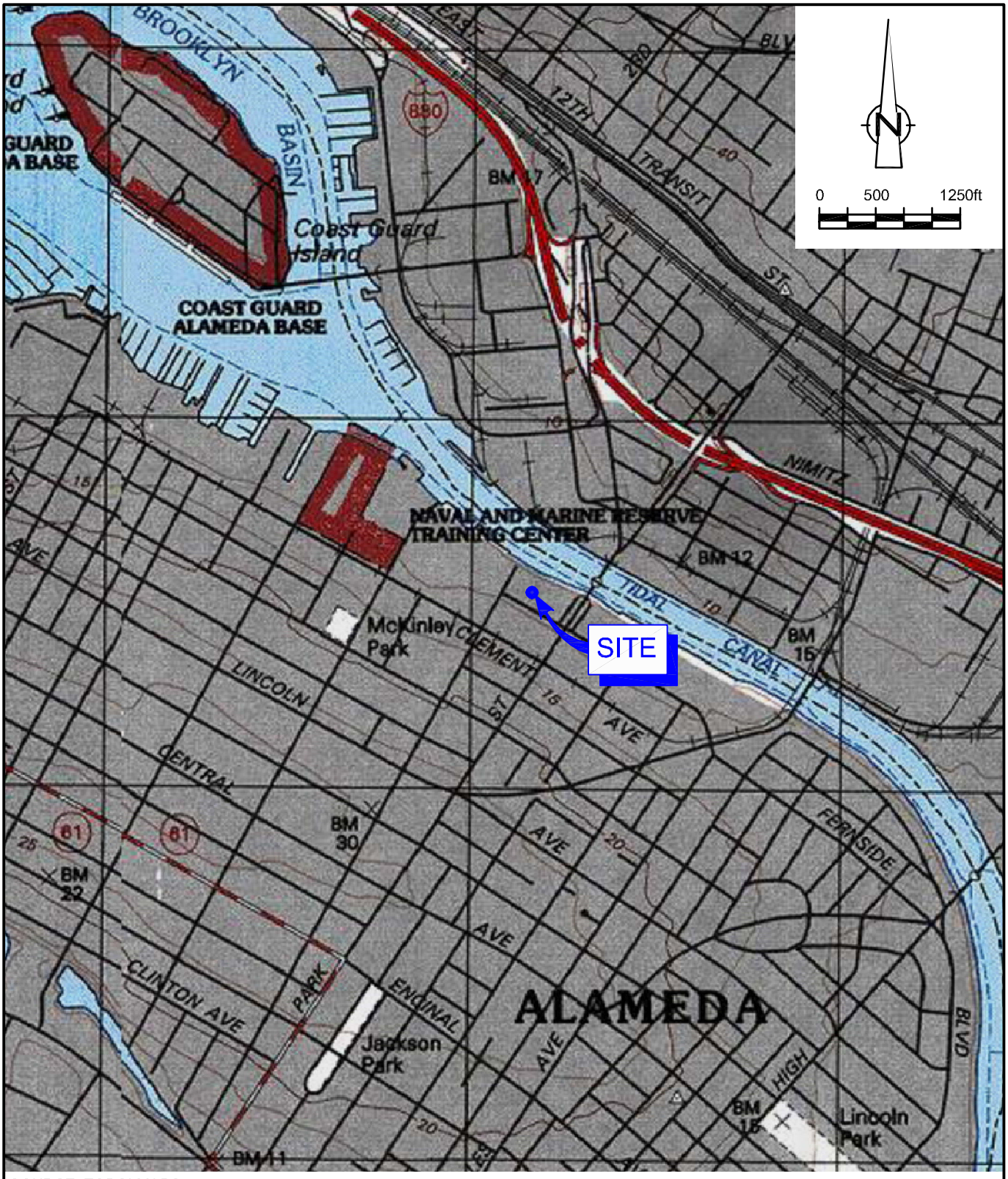
PROFESSIONAL GEOLOGIST
GREG BARCLAY
No. 6260
STATE OF CALIFORNIA

OY/jm/16
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map – July 21, 2010
Figure 3	TPHd Concentrations in Groundwater – July 21, 2010
Figure 4	TPHg Concentrations in Groundwater – July 21, 2010
Figure 5	Benzene Concentrations in Groundwater – July 21, 2010
Table 1	Groundwater Monitoring and Sampling Data
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mike Bauer, Chevron (electronic only)
Julie Beck Ball
Peter Reinhold Beck
Monroe Wingate
Tom Foley, Gallagher & Miersch

FIGURES

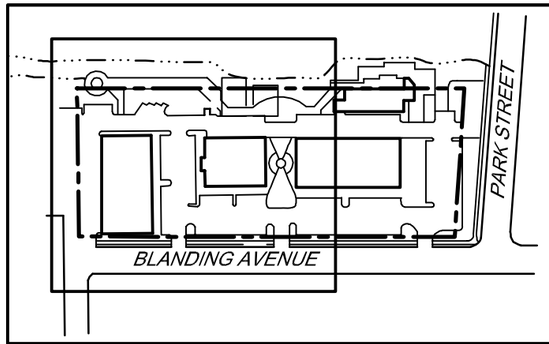


SOURCE: TOPO! MAPS.

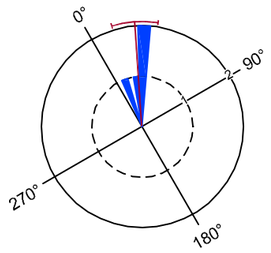
figure 1

VICINITY MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

631916-95(016)GN-WA001 OCT 13/2010



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2010

LEGEND

- SUB-SLAB VAPOR POINT
- MONITORING WELL LOCATION
- VAPOR WELL
- SOIL BORING (CRA, AUGUST, 2008)
- SOIL BORING (GEOMATRIX, FEBRUARY 1995)
- SOIL BORING (RRM, OCTOBER 1998)
- SHALLOW GROUNDWATER SAMPLE (GEOMATRIX, APRIL 1995)
- CANAL GRAB SURFACE WATER SAMPLE (RRM, OCTOBER 1998)
- GRAB SOIL SAMPLE (CAMBRIA, JANUARY 2004)
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 5.00 — GROUNDWATER ELEVATION CONTOUR DASHED WHERE INFERRED
- (4.74) — GROUNDWATER ELEVATIONS ARE IN FEET ABOVE MEAN SEA LEVEL (ft AMSL)
- 0.01 — GROUNDWATER FLOW DIRECTION AND GRADIENT

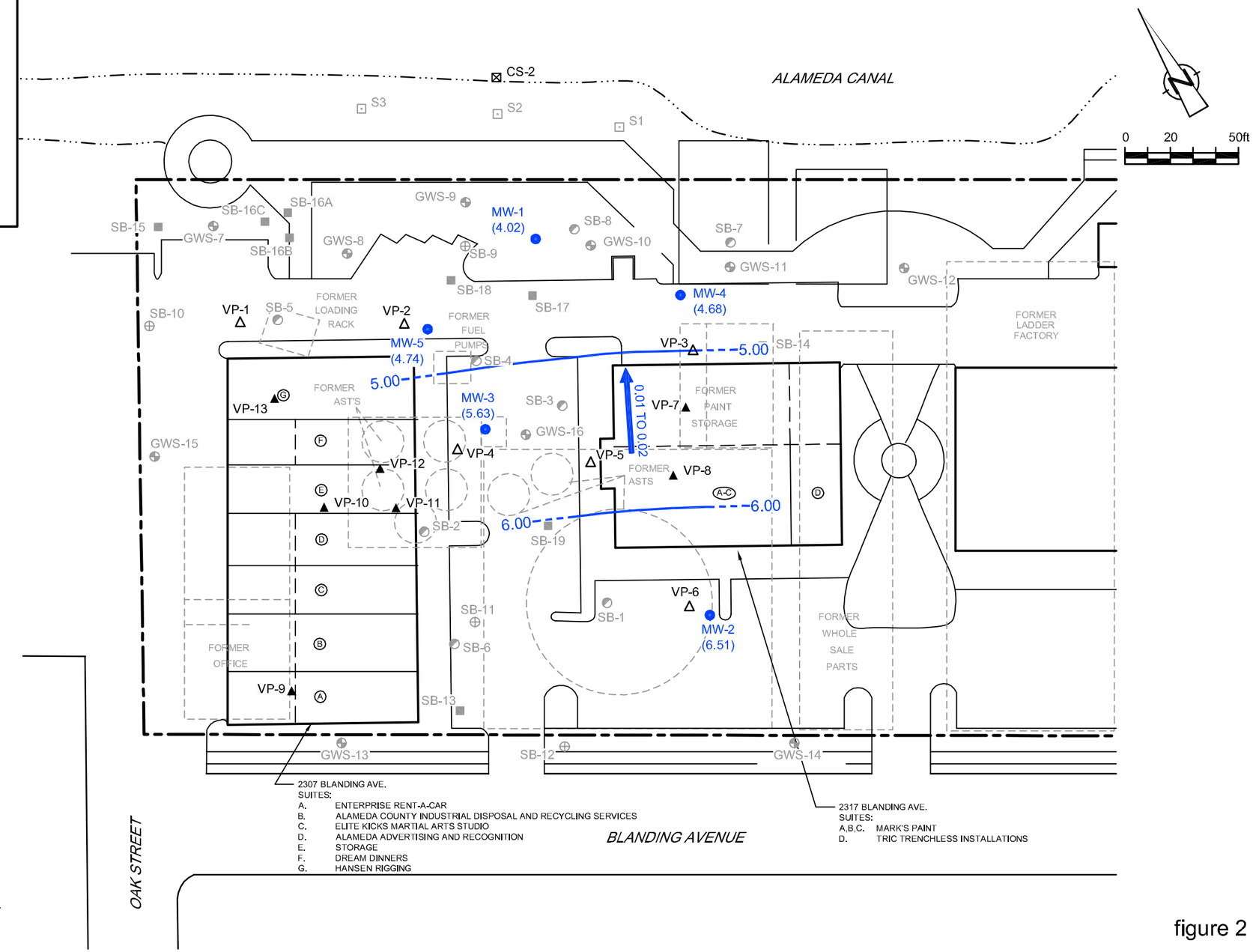
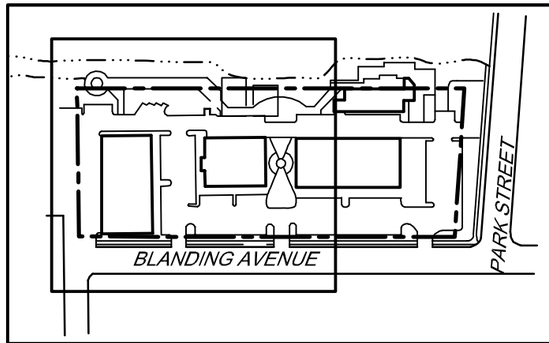


figure 2

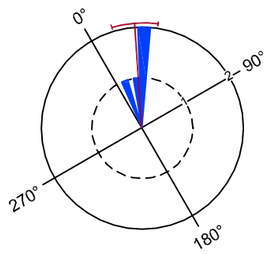
GROUNDWATER ELEVATION CONTOUR MAP - JULY 21, 2010
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

631916-95(016)GN-WA002 OCT 13/2010



KEY PLAN
SCALE: 1=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2010

LEGEND

- ▲ SUB-SLAB VAPOR POINT
- ● MONITORING WELL LOCATION
- △ VAPOR WELL
- ⊠ CANAL GRAB SURFACE WATER SAMPLE
- ■ SOIL BORING (CRA, AUGUST, 2008)
- ◐ SOIL BORING (GEOMATRIX, FEBRUARY 1995)
- ⊕ SOIL BORING (RRM, OCTOBER 1998)
- ◍ SHALLOW GROUNDWATER SAMPLE (GEOMATRIX, APRIL 1995)
- ⊡ GRAB SOIL SAMPLE (CAMBRIA, JANUARY 2004)
- ▭ SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 100 TPHd CONCENTRATION CONTOUR DASHED WHERE INFERRED
- (<50) TPHd CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L)

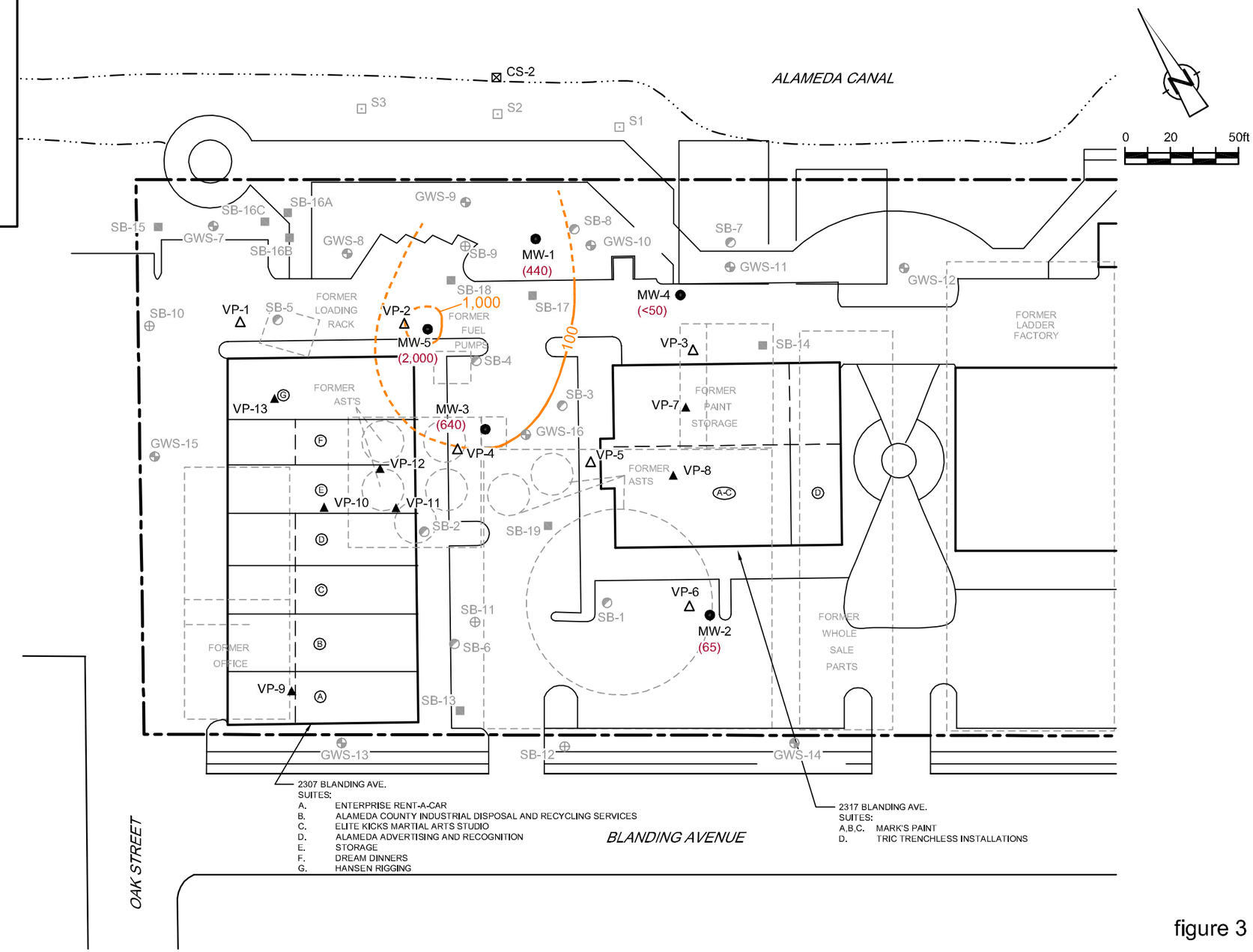
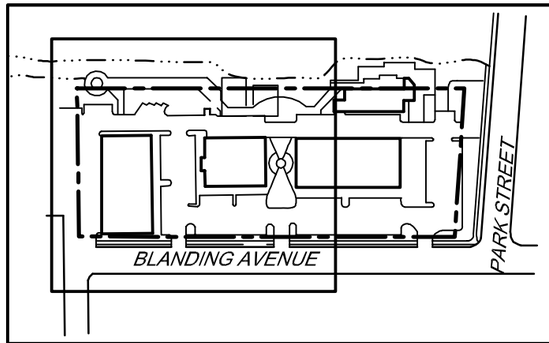


figure 3

TPHd CONCENTRATIONS IN GROUNDWATER - JULY 21, 2010
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

631916-95(016)GN-WA003 OCT 13/2010



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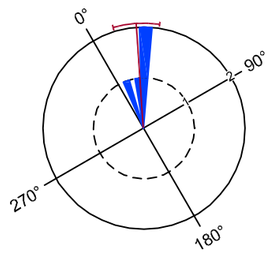


HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2010

LEGEND

- ▲ SUB-SLAB VAPOR POINT
- ● MONITORING WELL LOCATION
- △ VAPOR WELL
- ⊠ CANAL GRAB SURFACE WATER SAMPLE
- ■ SOIL BORING (CRA, AUGUST, 2008)
- ◐ SOIL BORING (GEOMATRIX, FEBRUARY 1995)
- ⊕ SOIL BORING (RRM, OCTOBER 1998)
- ◍ SHALLOW GROUNDWATER SAMPLE (GEOMATRIX, APRIL 1995)
- ⊡ GRAB SOIL SAMPLE (CAMBRIA, JANUARY 2004)
- ▭ SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 100 TPHg CONCENTRATION CONTOUR DASHED WHERE INFERRED
- (<50) TPHg CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L)

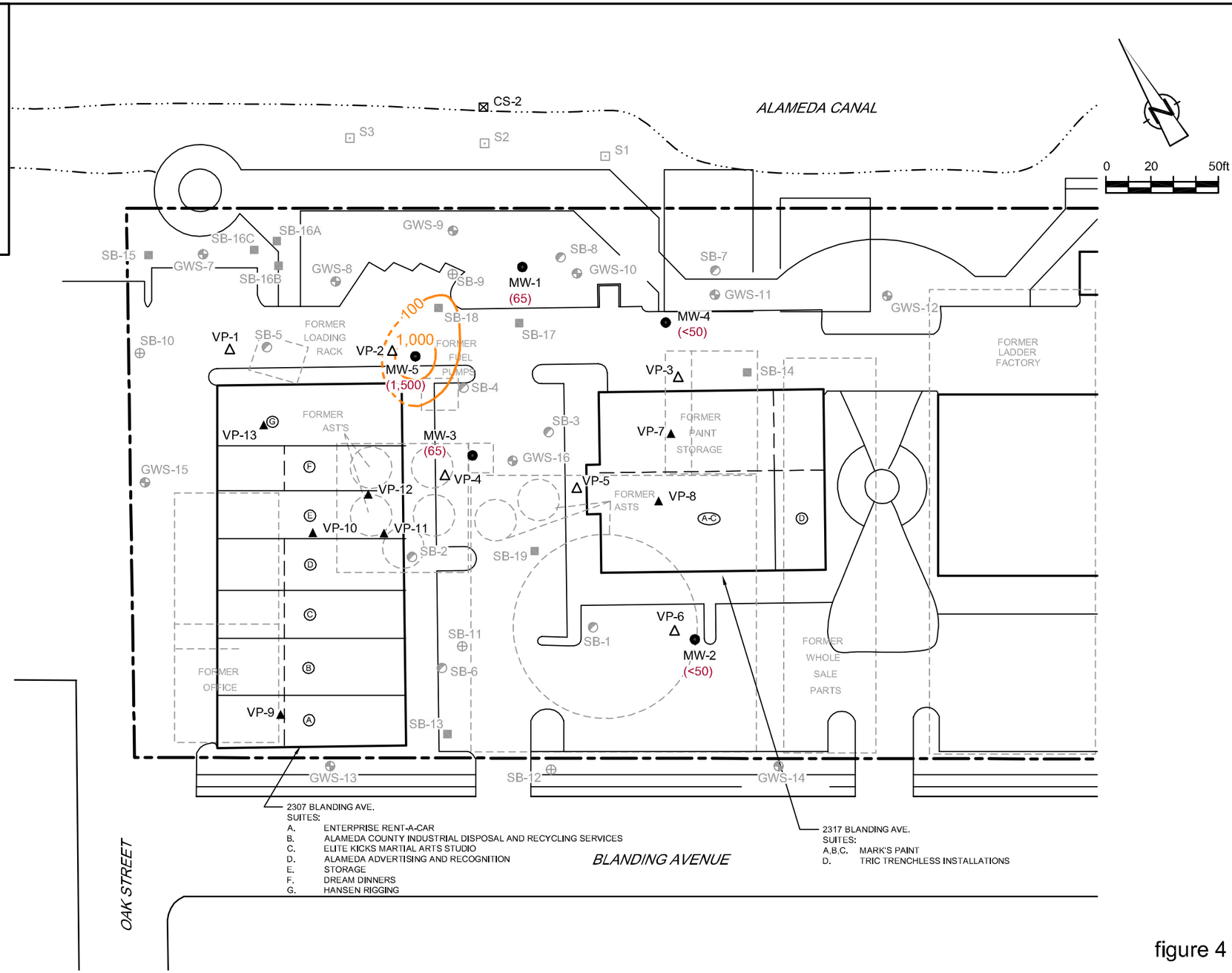
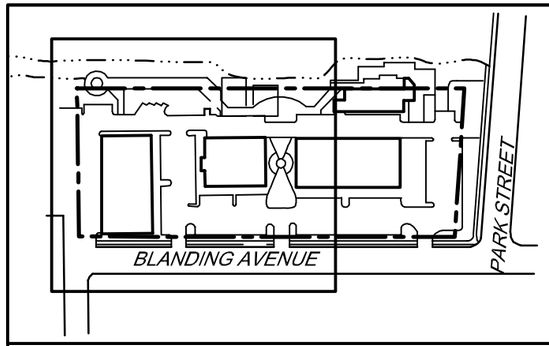


figure 4

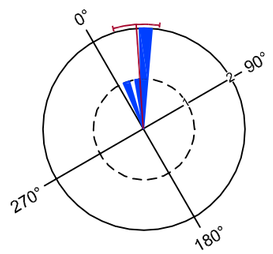
TPHg CONCENTRATIONS IN GROUNDWATER - JULY 21, 2010
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

631916-95(016)GN-WA004 OCT 13/2010



KEY PLAN
SCALE: 1=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2010

LEGEND

- ▲ SUB-SLAB VAPOR POINT
- ● MONITORING WELL LOCATION
- △ VAPOR WELL
- ⊠ CANAL GRAB SURFACE WATER SAMPLE
- ■ SOIL BORING (CRA, AUGUST, 2008)
- ◐ SOIL BORING (GEOMATRIX, FEBRUARY 1995)
- ⊕ SOIL BORING (RRM, OCTOBER 1998)
- ◍ SHALLOW GROUNDWATER SAMPLE (GEOMATRIX, APRIL 1995)
- ⊡ GRAB SOIL SAMPLE (CAMBRIA, JANUARY 2004)
- ▭ SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 100 BENZENE CONCENTRATION CONTOUR DASHED WHERE INFERRED
- (<0.5) BENZENE CONCENTRATIONS ARE IN MICROGRAMS PER LITER (µg/L)

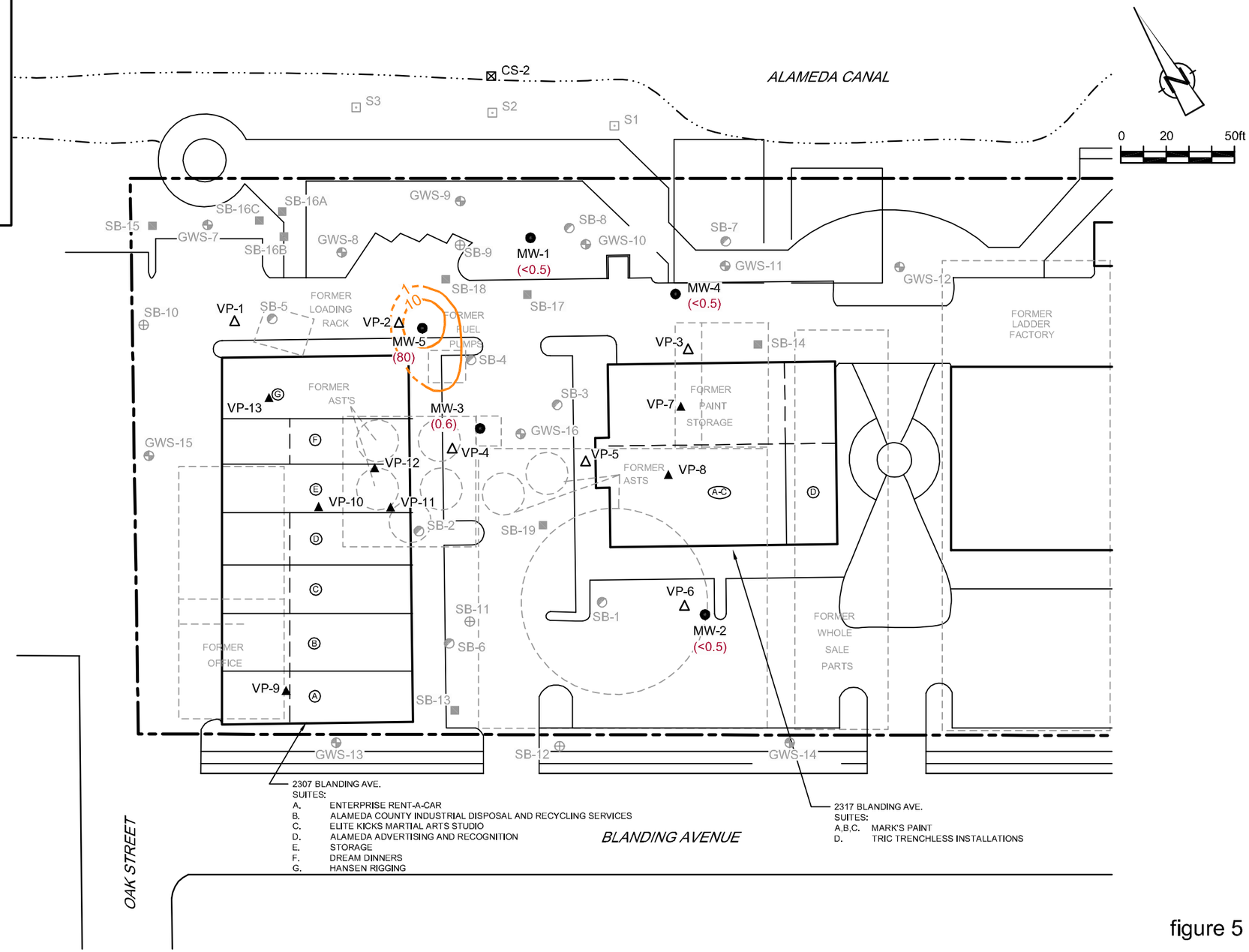


figure 5

BENZENE CONCENTRATIONS IN GROUNDWATER - JULY 21, 2010
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California

NOTE:
WELL LOCATIONS ARE BASED ON MAP PROVIDED BY MORROW SURVEYING (DWG NO.0857-149 ct, DATED 7-30-09).
ALL OTHER LOCATIONS ARE APPROXIMATE.

631916-95(016)GN-WA005 OCT 13/2010

TABLE

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 20-6127)
2307 BLANDING AVENUE, ALAMEDA, CALIFORNIA

					HYDROCARBONS		*PRIMARY VOCS*				
Location	Date	*TOC**	*DTW*	*GWE*	*TPH-DRO*	*TPH-GRO*	*B*	*T*	*E*	*X*	*MTBE by SW8260*
	Units	*ft*	*ft*	*ft-amsl*	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-1	**07/21/2010**	**13.49**	**9.47**	**4.02**	**440**	**65**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-2	**07/21/2010**	**10.63**	**4.12**	**6.51**	**65**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
MW-3	**07/21/2010**	**10.72**	**5.09**	**5.63**	**640**	**65**	**0.6**	**<0.5**	**<0.5**	**<0.5**	**-**
MW-4	**07/21/2010**	**11.40**	**6.72**	**4.68**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
MW-5	**07/21/2010**	**10.50**	**5.76**	**4.74**	**2,000**	**1,500**	**80**	**2**	**1**	**2**	**-**
QA	**07/21/2010**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**

Abbreviations and Notes:

TOC = Top of Casing
DTW = Depth to Water
GWE = Groundwater elevation
(ft-amsl) = Feet Above Mean sea level
ft = Feet
µg/L = Micrograms per Liter
TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylene
MTBE = Methyl tert butyl ether
-- = Not available / not applicable
<x = Not detected above laboratory method detection limit

* = TOC elevations for all wells were surveyed on July30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations. TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

ATTACHMENT A

MONITORING DATA PACKAGE

GETTLER-RYAN INC.

TRANSMITTAL

July 26, 2010
G-R #386498

TO: Mr. Brian Silva
Conestoga-Rovers & Associates
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

CC: Mr. Mike Bauer
Chevron EMC
145 S. State College Blvd.,
Room 4089
Brea, California 92821

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6747 Sierra Court, Suite J
Dublin, California 94568

RE: Chevron #206127
2301-2337 Blanding Avenue
Alameda, California
(Former Signal Oil Marine Terminal)

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DATED	DESCRIPTION
VIA PDF		Groundwater Monitoring and Sampling Data Package **Third Quarter Event of July 21, 2010**

COMMENTS:

Pursuant to your request, we are providing you with copies of the above referenced data for your use.

Please provide us the updated historical data prior to the next monitoring and sampling event for our field use.

Please feel free to contact me if you have any comments/questions.

trans/206127

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #206127
Site Address: 2301-2337 Blanding Avenue
City: Alameda, CA

Job # 386498
Event Date: 7-21-10
Sampler: Joe

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y / N	REPLACE CAP Y / N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / No
mw-1	O.K	O.K	O.K	O.K	O.K	O.K	O.K	N	N	12" Emco/2	No
mw-2	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
mw-3	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
mw-4	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓
mw-5	↓	↓	↓	↓	↓	↓	↓	↓	↓	"	↓

Comments

STANDARD OPERATING PROCEDURE - GROUNDWATER SAMPLING

Gettler-Ryan Inc. (GR) field personnel adhere to the following procedures for the collection and handling of groundwater samples prior to analysis by the analytical laboratory. All work is performed in accordance with the GR Health & Safety Plan and all client-specific programs. The scope of work and type of analysis to be performed is determined prior to commencing field work.

Prior to sampling, the presence or absence of free-phase hydrocarbons is determined using an interface probe. Product thickness, if present, is measured to the nearest 0.01 foot and is noted in the field notes. In addition, all depth to water level measurements are collected with a static water level indicator and are also recorded in the field notes, prior to purging and sampling any wells.

After water levels are collected and prior to sampling, if purging is to occur, each well is purged a minimum of three well casing volumes of water using pre-cleaned pumps (stack, peristaltic or Grundfos), or disposable bailers. Temperature, pH and electrical conductivity are measured a minimum of three times during the purging (additional parameters such as dissolved oxygen, oxidation reduction potential, turbidity may also be measured, depending on specific scope of work.). Purging continues until these parameters stabilize.

Groundwater samples are collected using disposable bailers. The water samples are transferred from the bailer into appropriate containers. Pre-preserved containers, supplied by analytical laboratories, are used. When pre-preserved containers are not available, the laboratory is instructed to preserve the sample as appropriate. Duplicate samples are collected for the laboratory to use in maintaining quality assurance/quality control standards, as directed by the scope of work. The samples are labeled to include the job number, sample identification, collection date and time, analysis, preservation (if any), and the sample collector's initials. The water samples are placed in a cooler, maintained at 4°C for transport to the laboratory. Once collected in the field, all samples are maintained under chain of custody until delivered to the laboratory.

The chain of custody document includes the job number, type of preservation, if any, analysis requested, sample identification, date and time collected, and the sample collector's name. The chain of custody is signed and dated (including time of transfer) by each person who receives or surrenders the samples, beginning with the field personnel and ending with the laboratory personnel.

A laboratory supplied trip blank accompanies each sampling set. The trip blank is analyzed for some or all of the same compounds as the groundwater samples.

As requested by Chevron Environmental Management Company, the purge water and decontamination water generated during sampling activities is transported by IWM to Chemical Waste Management located in Kettleman Hills, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-21-10 (inclusive)
City: Alameda, CA Sampler: Joe

Well ID MW-1 Date Monitored: 7-21-10
Well Diameter 2 in.
Total Depth 17.17 ft.
Depth to Water 9.47 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

7.70 xVF 0.17 = 1.31 x3 case volume = Estimated Purge Volume: 4 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.01

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0843 Weather Conditions: Foggy
Sample Time/Date: 0910 7-21-10 Water Color: clear Odor: (Y) N moderate
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? NO If yes, Time: — Volume: — gal. DTW @ Sampling: 9.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0850	1	6.93	2114	17.4		
0856	2.5	6.86	2118	17.6		
0902	4	6.81	2107	17.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX+MTBE(8260)
	~~x voa vial~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~TPH-GRO(8015)/BTEX(8260)~~
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS: Removed capillary roots from well with a stainless steel bailer prior to bailing & sampling.

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-21-10 (inclusive)
City: Alameda, CA Sampler: Joe

Well ID MW-2 Date Monitored: 7-21-10
Well Diameter 2 in.
Total Depth 15.61 ft.
Depth to Water 4.12 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

11.49 xVF 0.17 = 1.95 x3 case volume = Estimated Purge Volume: 6 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.41

Purge Equipment:

Disposable Bailer	✓
Stainless Steel Bailer	
Stack Pump	
Suction Pump	
Grundfos	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Sampling Equipment:

Disposable Bailer	✓
Pressure Bailer	
Discrete Bailer	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0715 Weather Conditions: Foggy
Sample Time/Date: 0755 / 7-21-10 Water Color: clear Odor: Y / N
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 4.66

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
0722	2	7.56	1583	17.8		
0730	4	7.41	1601	17.2		
0736	6	7.37	1613	17.6		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 2	~~x voa vial~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~TPH-GRO(8015)/BTEX+MTBE(8260)~~
	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-21-10 (inclusive)
City: Alameda, CA Sampler: Joe

Well ID MW-3 Date Monitored: 7-21-10
Well Diameter 2 in.
Total Depth 17.89 ft.
Depth to Water 5.09 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

☐ Check if water column is less then 0.50 ft.

12.80 xVF 0.17 = 2.18 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.65

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0925 Weather Conditions: Foggy
Sample Time/Date: 1000 / 7-21-10 Water Color: clear Odor: Y / N moderate
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: ~ Volume: ~ gal. DTW @ Sampling: 5.29

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0931	2.5	7.13	1843	18.0		
0937	5	6.94	1837	17.9		
0945	7	6.90	1840	17.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	~~x voa vial~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~TPH-GRO(8015)/BTEX+MTBE(8260)~~
	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-21-10 (inclusive)
City: Alameda, CA Sampler: Joe

Well ID MW-4 Date Monitored: 7-21-10
Well Diameter 2 in.
Total Depth 20.22 ft.
Depth to Water 6.72 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

13.50 xVF 0.17 = 2.30 x3 case volume = Estimated Purge Volume: 7 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.42

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 0805 Weather Conditions: Foggy
Sample Time/Date: 0835 / 7-21-10 Water Color: clear Odor: Y / (N)
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 7.33

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm ~~mS~~)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0812	2.5	7.27	1901	17.6		
0820	5	7.31	1890	17.3		
0825	7	7.24	1896	17.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	~~x voa vial~~	~~YES~~	~~HCL~~	~~LANCASTER~~	~~TPH-GRO(8015)/BTEX+MTBE(8260)~~
	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS:

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-21-10 (inclusive)
City: Alameda, CA Sampler: Joe

Well ID MW-5 Date Monitored: 7-21-10
Well Diameter 2 in.
Total Depth 17.92 ft.
Depth to Water 5.76 ft. ☐ Check if water column is less then 0.50 ft.

Volume Factor (VF)	3/4"= 0.02	1"= 0.04	2"= 0.17	3"= 0.38
	4"= 0.66	5"= 1.02	6"= 1.50	12"= 5.80

12.16 xVF 0.17 = 2.07 x3 case volume = Estimated Purge Volume: 6.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.19

Purge Equipment:
Disposable Bailer ✓
Stainless Steel Bailer
Stack Pump
Suction Pump
Grundfos
Peristaltic Pump
QED Bladder Pump
Other:

Sampling Equipment:
Disposable Bailer ✓
Pressure Bailer
Discrete Bailer
Peristaltic Pump
QED Bladder Pump
Other:

Time Started: (2400 hrs)
Time Completed: (2400 hrs)
Depth to Product: ft
Depth to Water: ft
Hydrocarbon Thickness: ft
Visual Confirmation/Description:
Skimmer / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:
Product Transferred to:

Start Time (purge): 1017 Weather Conditions: Foggy
Sample Time/Date: 1045 / 7-21-10 Water Color: clear Odor: Y / N Strong
Approx. Flow Rate: ~ gpm. Sediment Description: none
Did well de-water? no If yes, Time: — Volume: — gal. DTW @ Sampling: 6.47

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1020	2	6.62	1744	18.0		
1026	4	6.70	1740	18.1		
1033	6.5	6.68	1751	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	~~x voa vial~~	~~YES~~	HCL	LANCASTER	~~TPH-GRO(8015)/BTEX+MTBE(8260)~~
	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 500ml ambers	YES	NP	LANCASTER	TPH-DRO w/sg (8015)

COMMENTS: Removed hair-like roots from well with a stainless steel bailer prior to bailing & sampling.

Add/Replaced Lock: Add/Replaced Plug: Add/Replaced Bolt:

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

Ø7211Ø-Ø1

For Lancaster Laboratories use only

Acct. #: ______ Sample # ______ Group #: 018371

Facility #: SS#206127-OML G-R#386498 Global ID#T06019744728

Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Chevron PM: MB Lead Consultant: CRASB Silva

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 Fax #: 925-551-7899

Sampler: JOE AJEMIAN

Analyses Requested / Preservation Codes

Sample Identification	Date Collected	Time Collected	Grab	Composite	Soil	Water (☐ Potable ☐ NPDES)	Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	8260 full scan	Oxygenates	Total Lead Method	Dissolved Lead Method	TPH-GRO (8015)	BTEX (8260)
QA	—	—	✓			✓		2	✓	✓							
MW-1	7-21-10	0910	↓			↓		8	✓	✓	✓						
MW-2	↓	0755	↓			↓		8			✓					✓	✓
MW-3	↓	1000	↓			↓		8			✓					✓	✓
MW-4	↓	0835	↓			↓		8			✓					✓	✓
MW-5	↓	1045	↓			↓		8			✓					✓	✓

Preservative Codes

H = HCl T = Thiosulfate
N = HNO_3 B = NaOH
S = H_2SO_4 O = Other

☐ J value reporting needed
☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
☐ Confirm highest hit by 8260
☐ Confirm all hits by 8260
☐ Run ____ oxy's on highest hit
☐ Run ____ oxy's on all hits

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

STD. TAT (circled) 72 hour 48 hour
24 hour 4 day 5 day

Data Package Options (please circle if required)

QC Summary Type I - Full EDF/EDD
Type VI (Raw Data) ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	7-21-10	1145	G. [signature]	21 JUL 10	1145
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by Commercial Carrier: UPS FedEx Other ______			Received by:	Date	Time
Temperature Upon Receipt ______ C°			Custody Seals Intact? Yes No		

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

ANALYTICAL RESULTS

Prepared by:

Lancaster Laboratories
2425 New Holland Pike
Lancaster, PA 17605-2425

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

August 02, 2010

Project: 206127

Submittal Date: 07/22/2010
Group Number: 1204186
PO Number: 0015060859
Release Number: BAUER
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-100721 NA Water	6038800
MW-1-W-100721 Grab Water	6038801
MW-2-W-100721 Grab Water	6038802
MW-3-W-100721 Grab Water	6038803
MW-4-W-100721 Grab Water	6038804
MW-5-W-100721 Grab Water	6038805

The specific methodologies used in obtaining the enclosed analytical results are indicated on the Laboratory Sample Analysis Record.

ELECTRONIC COPY TO	CRA c/o Gettler-Ryan	Attn: Cheryl Hansen
ELECTRONIC COPY TO	CRA	Attn: Brian Silva

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Questions? Contact your Client Services Representative
Jill M Parker at (717) 656-2300 Ext. 1241

Respectfully Submitted,

Sarah M. Snyder
Senior Specialist

Lancaster Laboratories

2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 • 717-656-2300 Fax: 717-656-2681 • www.lancasterlabs.com

Analysis Report

Sample Description: QA-T-100721 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 QA

LLI Sample # WW 6038800
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLAQA

CAT No.		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F102081AA	07/27/2010 08:56	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F102081AA	07/27/2010 08:56	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 19:20	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 19:20	Carrie E Miller	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-1-W-100721 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1

LLI Sample # WW 6038801
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010 09:10 by JA

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLA01

CAT No.		CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene	71-43-2	N.D.	0.5	1
10943	Ethylbenzene	100-41-4	N.D.	0.5	1
10943	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10943	Toluene	108-88-3	N.D.	0.5	1
10943	Xylene (Total)	1330-20-7	N.D.	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	65	50	1
GC Extractable TPH w/Si Gel	**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	440	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX/MTBE 8260 Water	SW-846 8260B	1	F102081AA	07/27/2010 13:36	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F102081AA	07/27/2010 13:36	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 22:36	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 22:36	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102030027A	07/24/2010 13:08	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102030027A	07/23/2010 09:35	Karen R Rettew	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-2-W-100721 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Sample # WW 6038802
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010 07:55 by JA

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLA02

CAT No.			CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles		**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12		n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel		**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel		n.a.	65	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P102091AA	07/28/2010 15:39	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P102091AA	07/28/2010 15:39	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 22:58	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 22:58	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102030027A	07/24/2010 13:30	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102030027A	07/23/2010 09:35	Karen R Rettew	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-3-W-100721 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6038803
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010 10:00 by JA

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLA03

CAT No.			CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene		71-43-2	0.6	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles		**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12		n.a.	65	50	1
GC Extractable TPH w/Si Gel		**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel		n.a.	640	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P102091AA	07/28/2010 16:07	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P102091AA	07/28/2010 16:07	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 20:03	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 20:03	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102030027A	07/24/2010 13:51	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102030027A	07/23/2010 09:35	Karen R Rettew	1

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Analysis Report

Sample Description: MW-4-W-100721 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Sample # WW 6038804
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010 08:35 by JA

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLA04

CAT No.			CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		**ug/l**	**ug/l**	
10943	Benzene		71-43-2	N.D.	0.5	1
10943	Ethylbenzene		100-41-4	N.D.	0.5	1
10943	Toluene		108-88-3	N.D.	0.5	1
10943	Xylene (Total)		1330-20-7	N.D.	0.5	1
GC Volatiles		**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12		n.a.	N.D.	50	1
GC Extractable TPH w/Si Gel		**SW-846 8015B**		**ug/l**	**ug/l**	
06610	TPH-DRO CA C10-C28 w/ Si Gel		n.a.	N.D.	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P102091AA	07/28/2010 16:35	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P102091AA	07/28/2010 16:35	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 23:20	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 23:20	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102030027A	07/24/2010 14:13	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102030027A	07/23/2010 09:35	Karen R Rettew	1

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Analysis Report

Sample Description: MW-5-W-100721 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Sample # WW 6038805
LLI Group # 1204186
Account # 10904

Project Name: 206127

Collected: 07/21/2010 10:45 by JA

Submitted: 07/22/2010 09:10
Reported: 08/02/2010 11:58
Discard: 09/02/2010

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

BLA05

CAT No.			CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles		**SW-846 8260B**		ug/l	ug/l	
10943	Benzene		71-43-2	80	0.5	1
10943	Ethylbenzene		100-41-4	1	0.5	1
10943	Toluene		108-88-3	2	0.5	1
10943	Xylene (Total)		1330-20-7	2	0.5	1
GC Volatiles		**SW-846 8015B**		ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12		n.a.	1,500	50	1
GC Extractable TPH w/Si Gel		**SW-846 8015B**		ug/l	ug/l	
06610	TPH-DRO CA C10-C28 w/ Si Gel		n.a.	2,000	50	1

General Sample Comments

State of California Lab Certification No. 2501

All QC is compliant unless otherwise noted. Please refer to the Quality Control Summary for overall QC performance data and associated samples.

Laboratory Sample Analysis Record

CAT No.	Analysis Name	Method	Trial#	Batch#	Analysis Date and Time	Analyst	Dilution Factor
10943	BTEX 8260B Water	SW-846 8260B	1	P102091AA	07/28/2010 17:04	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	P102091AA	07/28/2010 17:04	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	10207B20A	07/27/2010 23:41	Carrie E Miller	1
01146	GC VOA Water Prep	SW-846 5030B	1	10207B20A	07/27/2010 23:41	Carrie E Miller	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	102030027A	07/24/2010 16:42	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	102030027A	07/23/2010 09:35	Karen R Rettew	1

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1204186
Reported: 08/02/10 at 11:58 AM

Matrix QC may not be reported if site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: F102081AA	Sample number(s): 6038800-6038801							
Benzene	N.D.	0.5	ug/l	87		79-120		
Ethylbenzene	N.D.	0.5	ug/l	90		79-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	86		76-120		
Toluene	N.D.	0.5	ug/l	92		79-120		
Xylene (Total)	N.D.	0.5	ug/l	91		80-120		
Batch number: P102091AA	Sample number(s): 6038802-6038805							
Benzene	N.D.	0.5	ug/l	98		79-120		
Ethylbenzene	N.D.	0.5	ug/l	88		79-120		
Toluene	N.D.	0.5	ug/l	97		79-120		
Xylene (Total)	N.D.	0.5	ug/l	88		80-120		
Batch number: 10207B20A	Sample number(s): 6038800-6038805							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	118	118	75-135	0	30
Batch number: 102030027A	Sample number(s): 6038801-6038805							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	69	73	52-126	5	20

Sample Matrix Quality Control

Unspiked (UNSPK) = the sample used in conjunction with the matrix spike
Background (BKG) = the sample used in conjunction with the duplicate

Analysis Name	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD MAX	BKG Conc	DUP Conc	DUP RPD	Dup RPD Max
Batch number: F102081AA	Sample number(s): 6038800-6038801 UNSPK: P040456								
Benzene	91	91	80-126	0	30				
Ethylbenzene	95	97	71-134	1	30				
Methyl Tertiary Butyl Ether	86	87	72-126	1	30				
Toluene	95	95	80-125	0	30				
Xylene (Total)	95	95	79-125	0	30				
Batch number: P102091AA	Sample number(s): 6038802-6038805 UNSPK: P039254								
Benzene	121	151*	80-126	8	30				
Ethylbenzene	34 (2)	122 (2)	71-134	4	30				
Toluene	115	134*	80-125	6	30				
Xylene (Total)	102 (2)	247 (2)	79-125	5	30				
Batch number: 10207B20A	Sample number(s): 6038800-6038805 UNSPK: 6038803								
TPH-GRO N. CA water C6-C12	121		63-154						

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1204186
Reported: 08/02/10 at 11:58 AM

Surrogate Quality Control

Surrogate recoveries which are outside of the QC window are confirmed unless attributed to dilution or otherwise noted on the Analysis Report.

Analysis Name: UST VOCs by 8260B - Water
Batch number: F102081AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6038800	94	99	102	92
6038801	94	98	101	94
Blank	95	99	103	94
LCS	94	99	101	96
MS	94	101	102	95
MSD	95	99	103	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: P102091AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6038802	92	101	103	91
6038803	93	102	103	94
6038804	93	102	103	91
6038805	93	101	102	96
Blank	92	102	102	91
LCS	92	103	102	94
MS	92	104	103	96
MSD	91	104	102	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 10207B20A

	Trifluorotoluene-F
6038800	91
6038801	92
6038802	91
6038803	91
6038804	90
6038805	134
Blank	91
LCS	123
LCSD	122
MS	121
Limits:	63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 102030027A

	Orthoterphenyl
6038801	79
6038802	84
6038803	84
6038804	74

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Quality Control Summary

Client Name: Chevron Group Number: 1204186
Reported: 08/02/10 at 11:58 AM

Surrogate Quality Control

6038805	81
Blank	65
LCS	83
LCSD	88
Limits:	59-131

*- Outside of specification
(1) The result for one or both determinations was less than five times the LOQ.
(2) The unspiked result was more than four times the spike added.

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

072116-01

Acct. #: 10904 | For Lancaster Laboratories use only Sample # 6035800-05 | Group #: 018371

G# 1204186

Facility #: SS#206127-OML G-R#386498 Global ID#T06019744728

Site Address: 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Chevron PM: MB | Lead Consultant: CRASB Silva

Consultant/Office: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Prj. Mgr.: Deanna L. Harding (deanna@grinc.com)

Consultant Phone #: 925-551-7555 | Fax #: 925-551-7899

Sampler: JOE AJEMIAN

Analyses Requested

Preservation Codes

Preservative Codes
H = HCl | T = Thiosulfate
N = HNO_3 | B = NaOH
S = H_2SO_4 | O = Other

- ☐ J value reporting needed
- ☒ Must meet lowest detection limits possible for 8260 compounds

8021 MTBE Confirmation
- ☐ Confirm highest hit by 8260
- ☐ Confirm all hits by 8260
- ☐ Run ____ oxy's on highest hit
- ☐ Run ____ oxy's on all hits

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water (☐ Potable ☐ NPDES)	Matrix: Oil ☐ Air	Total Number of Containers	BTEX + MTBE 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO	Silica Gel Cleanup ☒	8260 full scan	Oxygenates ____	Total Lead Method ____	Dissolved Lead Method ____	TPH-GRO (8015)	BTEX (8260)
QA	—	—	✓			✓		2	✓	✓								
MW-1	7-21-10	0910						8	✓	✓	✓							
MW-2	↓	0755						8			✓						✓	✓
MW-3		1000						8			✓						✓	✓
MW-4		0835						8			✓						✓	✓
MW-5	↓	1045	↓			↓		8			✓						✓	✓

Comments / Remarks

Please forward the lab results directly to the Lead Consultant and cc: G-R.

Turnaround Time Requested (TAT) (please circle)

STD. TAT	72 hour	48 hour
24 hour	4 day	5 day

Data Package Options (please circle if required)

QC Summary | Type I - Full | **EDF/EDD**
Type VI (Raw Data) | ☐ Coelt Deliverable not needed
WIP (RWQCB)
Disk

	Date	Time		Date	Time
Relinquished by:	7-21-10	1145	Received by: A. Aubyer 21 JUL 10	21 JUL 10	1145
Relinquished by: A. Aubyer 21 JUL 10		1630	Received by: FEDEX		
Relinquished by:			Received by:		
Relinquished by Commercial Carrier: UPS ~~FedEx~~ Other			Received by:	7/22/10	0910
Temperature Upon Receipt 0.2-1.9 C°			Custody Seals Intact? Yes No		

Lancaster Laboratories, Inc., 2425 New Holland Pike, PO Box 12425, Lancaster, PA 17605-2425 (717) 656-2300

Copies: White and yellow should accompany samples to Lancaster Laboratories. The pink copy should be retained by the client.

Explanation of Symbols and Abbreviations

The following defines common symbols and abbreviations used in reporting technical data:

RL	Reporting Limit	**BMQL**	Below Minimum Quantitation Level
N.D.	none detected	**MPN**	Most Probable Number
TNTC	Too Numerous To Count	**CP Units**	cobalt-chloroplatinate units
IU	International Units	**NTU**	nephelometric turbidity units
umhos/cm	micromhos/cm	**ng**	nanogram(s)
C	degrees Celsius	**F**	degrees Fahrenheit
meq	milliequivalents	**lb.**	pound(s)
g	gram(s)	**kg**	kilogram(s)
ug	microgram(s)	**mg**	milligram(s)
ml	milliliter(s)	**l**	liter(s)
m3	cubic meter(s)	**ul**	microliter(s)

< less than - The number following the sign is the limit of quantitation, the smallest amount of analyte which can be reliably determined using this specific test.

> greater than

J estimated value – The result is ≥ the Method Detection Limit (MDL) and < the Limit of Quantitation (LOQ).

ppm parts per million - One ppm is equivalent to one milligram per kilogram (mg/kg), or one gram per million grams. For aqueous liquids, ppm is usually taken to be equivalent to milligrams per liter (mg/l), because one liter of water has a weight very close to a kilogram. For gases or vapors, one ppm is equivalent to one microliter of gas per liter of gas.

ppb parts per billion

Dry weight basis Results printed under this heading have been adjusted for moisture content. This increases the analyte weight concentration to approximate the value present in a similar sample without moisture. All other results are reported on an as-received basis.

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers

A	TIC is a possible aldol-condensation product
B	Analyte was also detected in the blank
C	Pesticide result confirmed by GC/MS
D	Compound quantitated on a diluted sample
E	Concentration exceeds the calibration range of the instrument
N	Presumptive evidence of a compound (TICs only)
P	Concentration difference between primary and confirmation columns >25%
U	Compound was not detected
X,Y,Z	Defined in case narrative

Inorganic Qualifiers

B	Value is <CRDL, but ≥IDL
E	Estimated due to interference
M	Duplicate injection precision not met
N	Spike sample not within control limits
S	Method of standard additions (MSA) used for calculation
U	Compound was not detected
W	Post digestion spike out of control limits
*****	Duplicate analysis not within control limits
+	Correlation coefficient for MSA <0.995

Analytical test results meet all requirements of NELAC unless otherwise noted under the individual analysis.

Measurement uncertainty values, as applicable, are available upon request.

Tests results relate only to the sample tested. Clients should be aware that a critical step in a chemical or microbiological analysis is the collection of the sample. Unless the sample analyzed is truly representative of the bulk of material involved, the test results will be meaningless. If you have questions regarding the proper techniques of collecting samples, please contact us. We cannot be held responsible for sample integrity, however, unless sampling has been performed by a member of our staff. This report shall not be reproduced except in full, without the written approval of the laboratory.

ATTACHMENT C

HISTORICAL GROUNDWATER MONITORING AND SAMPLING DATA

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1										
01/23/01[1]	--	7.16	--	1,100[2,3]	5,210[4]	868	<50.0	<50.0	<50.0	<250
04/09/01	10.62	8.12	2.50	1,200[6]	3,000[5]	920	<20	<20	<20	<100
07/30/01	10.62	9.15	1.47	550[3,8]	2,000[7]	730	13	<5.0	<5.0	<25
10/08/01	10.62	7.86	2.76	2,200[9]	1,200	120	2.4	5.9	6.4	<2.5
01/13/02	10.62	7.02	3.60	3,300[3]	930	320	0.78	0.87	3.8	<2.5
04/08/02	10.62	9.60	1.02	1,200[3]	960	50	1.4	2.6	9.0	<2.5
07/31/02	10.62	9.27	1.35	2,800[3]	930	64	1.4	1.9	11	<5.0
10/15/02	10.62	8.00	2.62	1,000[3]	620	25	0.78	1.4	4.3	<2.5
01/14/03	10.62	7.05	3.57	960[3]	1,600	20	1.3	1.3	<1.5	<2.5
04/15/03	10.62	8.02	2.60	920[3]	870	56	1	1.4	3.1	<2.5
07/16/03[10]	10.62	10.08	0.54	1,400[3]	780	85	1	0.8	0.7	<0.5
10/18/03[10]	10.62	8.51	2.11	1,200[3]	640	42	0.8	<0.5	0.5	<0.5
01/22/04[10]	10.62	8.95	1.67	1,500[3]	440	18	<0.5	<0.5	<0.5	<0.5
04/23/04[10]	10.62	8.95	1.67	2,200[3]	410	10	<0.5	<0.5	<0.5	<0.5
07/23/04[10]	10.62	9.21	1.41	1,800[3]	400	6	<0.5	<0.5	<0.5	<0.5
10/22/04[10]	10.62	8.36	2.26	2,200[3]	150	2	<0.5	<0.5	<0.5	<0.5
01/28/05[10]	10.62	7.09	3.53	1,200[3]	55	8	<0.5	<0.5	<0.5	<0.5
04/26/05[10]	10.62	7.84	2.78	480[3]	<50	5	<0.5	<0.5	<0.5	<0.5
07/15/05[10]	10.62	8.12	2.50	610[3,11]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05[10]	10.62	8.07	2.55	920[3,12]	<50	10	<0.5	<0.5	<0.5	<0.5
01/12/06[10]	10.62	6.98	3.64	960[3,12]	<50	6	<0.5	<0.5	<0.5	<0.5
04/13/06[10]	10.62	7.04	3.58	1,200[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06[10]	10.62	7.13	3.49	1,200[3]	92	14	<0.5	<0.5	<0.5	<0.5
10/17/06[10]	10.62	7.64	2.98	990[3]	<50	3	<0.5	<0.5	<0.5	<0.5
01/16/07[10]	10.62	7.09	3.53	840[3]	83	4	<0.5	<0.5	<0.5	<0.5
04/17/07[10]	10.62	7.11	3.51	1,200[3]	57	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07[10]	10.62	7.41	3.21	1,100[3]	120	8	<0.5	<0.5	<0.5	<0.5
10/16/07[10]	10.62	7.55	3.07	750[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08[10]	10.62	6.98	3.64	1,700[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08[10]	10.62	7.36	3.26	1,100[3]	62	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08[10]	10.62	7.89	2.73	580[3]	93	3	<0.5	<0.5	<0.5	<0.5
10/15/08[10]	10.62	7.46	3.16	740[3]	56	0.7	<0.5	<0.5	0.8	<0.5

Table 1
Groundwater Monitoring Data and Analytical Results
Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-1 (cont)										
01/21/09[10]	10.62	7.19	3.43	390[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09[10]	10.62	6.93	3.69	1,400[3]	80	0.7	<0.5	<0.5	<0.5	<0.5
07/03/09[10]	13.49	8.08	5.41	1,300[3]	51	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09[10]	13.49	9.52	3.97	1,500[3]	86	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10[10]	13.49	7.64	5.85	340[3,15]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/10[10]	**13.49**	**9.20**	**4.29**	**820[3]**	**66**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
MW-2										
06/30/09[1]	10.63	3.80	6.83	--	--	--	--	--	--	--
07/03/09[14]	10.63	3.91	6.72	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	--
10/01/09[14]	10.63	4.11	6.52	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/10[14]	10.63	3.90	6.73	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	--
04/26/10[14]	**10.63**	**4.08**	**6.55**	**<50[3]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**
MW-3										
06/30/09[1]	10.72	4.61	6.11	--	--	--	--	--	--	--
07/03/09[14]	10.72	4.57	6.15	170[3]	310	1	<0.5	2	<0.5	--
10/01/09[14]	10.72	5.22	5.50	1,000[3]	52	<0.5	<0.5	<0.5	<0.5	--
01/19/10[14]	10.72	4.84	5.88	1,800[3]	120	2	<0.5	<0.5	<0.5	--
04/26/10[14]	**10.72**	**4.86**	**5.86**	**1,700[3]**	**170**	**2**	**<0.5**	**<0.5**	**<0.5**	**--**
MW-4										
06/30/09[1]	11.40	6.02	5.38	--	--	--	--	--	--	--
07/03/09[14]	11.40	5.85	5.55	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	--
10/01/09[14]	11.40	6.95	4.45	370[3]	<50	<0.5	<0.5	<0.5	<0.5	--
01/19/10[14]	11.40	6.22	5.18	110[3]	<50	<0.5	<0.5	<0.5	<0.5	--
04/26/10[14]	**11.40**	**6.61**	**4.79**	**210[5,17]**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**--**

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)
2301-2337 Blanding Avenue
Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
MW-5										
06/30/09[1]	10.50	5.20	5.30	--	--	--	--	--	--	--
07/03/09[14]	10.50	5.17	5.33	110[3]	930	33	2	0.6	3	--
10/01/09[14]	10.50	5.66	4.84	2,500[3]	1,800	57	3	0.9	5	--
01/19/10[14]	10.50	5.48	5.02	2,600[3]	2,200	74	4	1	5	--
04/26/10[14]	**10.50**	**5.91**	**4.59**	**1,700[3]**	**2,200**	**94**	**4**	**2**	**5**	--
CS-2										
07/30/01	--	--	--	140[3,5]	<50	<0.50	<0.50	<0.50	<0.50	<2.5
10/08/01	--	--	--	53[9]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	77[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	<50[3]	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03[10]	--	--	--	<50[3]	<50	<0.5	0.7	<0.5	0.6	<0.5
10/18/03[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/28/05[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06[10]	--	--	--	140[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
CS-2 (cont)										
07/17/07[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08[10]	--	--	--	85[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09[10]	--	--	--	86[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09[10]	--	--	--	<50[3]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10[10]	--	--	--	210[3,16]	<50	<0.5	<0.5	<0.5	<0.5	<0.5
TRIP BLANK										
TB-LB										
01/23/01	--	--	--	--	<50.0	<0.500	<0.500	<0.500	<0.500	<2.50
04/09/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
07/30/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<0.50	<2.5
QA										
10/08/01	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/13/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/08/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
07/31/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
10/15/02	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
01/14/03	--	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
04/15/03	--	--	--	--	<50	<0.5	<0.5	<0.5	<1.5	<2.5
07/16/03[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/18/03[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/22/04[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/23/04[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/23/04[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/22/04[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WELL ID/ DATE	TOC* (ft.)	DTW (ft.)	GWE (msl)	TPH-DRO (µg/L)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MTBE (µg/L)
QA (cont)										
01/28/05[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/05[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/15/05[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/14/05[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/12/06[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/13/06[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/13/06[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/17/06[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/07[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/17/07[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/17/07[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/16/07[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/16/08[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/16/08[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/16/08[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/15/08[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/21/09[10]	--	--	--	--	<50[13]	<0.5	<0.5	<0.5	<0.5	<0.5
04/15/09[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
07/03/09[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
10/01/09[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
01/19/10[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
04/26/10[10]	--	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 1

Groundwater Monitoring Data and Analytical Results

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

EXPLANATIONS:

TOC = Top of Casing
(ft.) = Feet
DTW = Depth to Water
GWE = Groundwater Elevation
(msl) = Mean sea level
TPH = Total Petroleum Hydrocarbons
DRO = Diesel Range Organics
GRO = Gasoline Range Organics
B = Benzene
T = Toluene
E = Ethylbenzene
X = Xylenes
MTBE = Methyl Tertiary Butyl Ether
(µg/L) = Micrograms per liter
-- = Not Measured/Not Analyzed
CS-2 = Creek Sample
QA = Quality Assurance/Trip Blank

* TOC elevations for all wells were surveyed on July 30, 2009, by Morrow Surveying. Vertical Datum is NAVD 88 from GPS observations.
TOC elevations were surveyed on January 25, 2001, by Virgil Chavez Land Surveying. The benchmark used for the survey was a City of Alameda benchmark being a cut square at the centerline return, south corner of Oak and Blanding, (Benchmark Elevation = 8.236 feet, NGVD 29).

1 Well development performed.

2 Laboratory report indicates unidentified hydrocarbons <C16.

3 Analyzed with silica gel cleanup.

4 Laboratory report indicates weathered gasoline C6-C12.

5 Laboratory report indicates discrete peaks.

6 Laboratory report indicates diesel C9-C24 + unidentified hydrocarbons <C16.

7 Laboratory report indicates gasoline C6-C12.

8 Laboratory report indicates unidentified hydrocarbons C9-C24.

9 Analysis performed without silica gel cleanup although was requested on the Chain of Custody.

10 BTEX and MTBE by EPA Method 8260.

11 Laboratory report indicates the observed sample pattern is not typical of #2 fuel/diesel. It elutes in the DRO range later than #2 fuel.

12 Laboratory report indicates the observed sample pattern includes #2 fuel/diesel and an additional pattern which elutes later in the DRO range.

13 Laboratory report indicates the original analysis was performed on an instrument where the ending calibration standard failed the method criteria. The sample was originally analyzed approximately 60 minutes after the LCS/LCSD. The LCS/LCSD showed good GRO recovery and the surrogate recovery for this sample was 85%. The sample was reanalyzed from a vial with headspace since only 1 vial was submitted. The results for the original and the reanalysis were similar. The reanalysis was reported.

14 BTEX by EPA Method 8260.

15 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

16 Laboratory report indicates DRO was detected in the method blank at a concentration of 38 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. The DRO result for the reextract is 96 µg/L.

17 Laboratory report indicates DRO was detected in the method blank at a concentration of 47 µg/L. Results from the reextraction are within limits. The hold time had expired prior to the reextraction therefore, all results are reported from the original extract. Similar results were obtained in both extracts.

Table 2

Groundwater Analytical Results - Metals

Chevron #206127 (Former Signal Oil Marine Terminal)

2301-2337 Blanding Avenue

Alameda, California

WELL ID/ DATE	Antimony (µg/L)	Arsenic (µg/L)	Barium (µg/L)	Beryllium (µg/L)	Cadmium (µg/L)	Chromium (µg/L)	Cobalt (µg/L)	Copper (µg/L)	Lead (µg/L)	Molybdenum (µg/L)	Nickel (µg/L)	Selenium (µg/L)	Silver (µg/L)	Thallium (µg/L)	Vanadium (µg/L)	Zinc (µg/L)	Mercury (µg/L)
MW-2																	
07/03/09	<9.7	<7.2	28.1	<1.4	<2.0	14.6	<2.1	<2.7	<6.9	<4.9	10.6	<8.9	<2.3	<14.0	12.6	11.6	<0.056
MW-3																	
07/03/09	<9.7	<7.2	143	<1.4	<2.0	8.5	<2.1	3.3	<6.9	<4.9	7.8	<8.9	<2.3	<14.0	13.8	18.8	<0.056
MW-4																	
07/03/09	<9.7	<7.2	83.5	<1.4	<2.0	10.0	<2.1	<2.7	<6.9	<4.9	4.5	<8.9	<2.3	<14.0	6.3	15.8	<0.056
MW-5																	
07/03/09	<9.7	32.7	148	<1.4	<2.0	<3.4	<2.1	3.1	<6.9	<4.9	3.6	<8.9	<2.3	<14.0	<2.5	19.2	<0.056

EXPLANATIONS

(µg/L) = Micrograms per liter

ANALYTICAL METHODS:

Metals analyzed by EPA Method SW-846 6010B

Mercury analyzed by Method SW-7470A