



Mike Bauer
Project Manager
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RECEIVED

2:06 pm, Oct 10, 2011

Alameda County
Environmental Health

October 5, 2011

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 2011 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,

A handwritten signature in blue ink that reads "Mike Bauer".

Mike Bauer
Project Manager



**CONESTOGA-ROVERS
& ASSOCIATES**

10969 Trade Center Drive
Rancho Cordova, California 95670
Telephone: (916) 889-8900 Fax: (916) 889-8999
<http://www.craworld.com>

October 5, 2011

Reference No. 631916

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

Re: Third Quarter 2011
Groundwater Monitoring and Sampling Report
Former Signal Oil Marine Storage and Distribution Facility
(Chevron Bulk Plant 20-6127)
2301-2311 Blanding Avenue
Alameda, California
ACEH Case RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Third Quarter 2011 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, Inc. (G-R) of Dublin, California. G-R's July 7, 2011 *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and well construction specifications are summarized in Table 2. Lancaster Laboratories' July 14, 2011 *Analytical Results* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF THIRD QUARTER 2011 EVENT

On June 30, 2011, G-R monitored and sampled the site wells per the established schedule.

Results of the current monitoring event indicate the following:

- Groundwater Flow Direction North/Northeast
- Hydraulic Gradient 0.02
- Depth to Water 3.74 to 11.86 feet below grade

Equal
Employment Opportunity
Employer



October 5, 2011

Reference No. 631916

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

TABLE A GROUNDWATER ANALYTICAL DATA						
Well ID	TPHd ($\mu\text{g/L}$)	TPHg ($\mu\text{g/L}$)	Benzene ($\mu\text{g/L}$)	Toluene ($\mu\text{g/L}$)	Ethylbenzene ($\mu\text{g/L}$)	Total Xylenes ($\mu\text{g/L}$)
ESLs	100	100	1	40	30	20
MW-1RA	3,700	6,800	780	13	36	13
MW-1RB	1,900	310	9	<0.5	<0.5	<0.5
MW-2	120	<50	<0.5	<0.5	<0.5	<0.5
MW-3	740	<50	<0.5	<0.5	<0.5	<0.5
MW-4	<50	<50	<0.5	<0.5	<0.5	<0.5
MW-5	3,200	2,900	99	6	1	7
MW-6	640	200	3	<0.5	<0.5	<0.5

ESL Environmental screening level
Concentrations in **Bold** exceed their respective ESL

CONCLUSIONS AND RECOMMENDATIONS

Results of this current quarterly monitoring and sampling of wells MW-1RA through MW-6 are consistent with results from past quarters and indicate the following:

- The highest TPHd, TPHg, and benzene concentrations in groundwater are in the area of the former fuel pumps, and north of the former aboveground storage tanks (Figures 3 through 5).
- Concentrations are generally stable in site wells where concentrations are detected above groundwater ESLs.

CRA recommends continuing quarterly monitoring and sampling of current wells to verify concentration trends over time.



**CONESTOGA-ROVERS
& ASSOCIATES**

October 5, 2011

Reference No. 631916

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ANTICIPATED FUTURE ACTIVITIES

Groundwater Monitoring

G-R will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

Additional Activity

CRA submitted a Draft Corrective Action Plan (CAP) to address residual petroleum impacts at the site on August 18, 2011. Chevron and CRA are currently awaiting comment/approval on the Draft CAP by ACEH.

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



BS/aa/22

Encl.



**CONESTOGA-ROVERS
& ASSOCIATES**

October 5, 2011

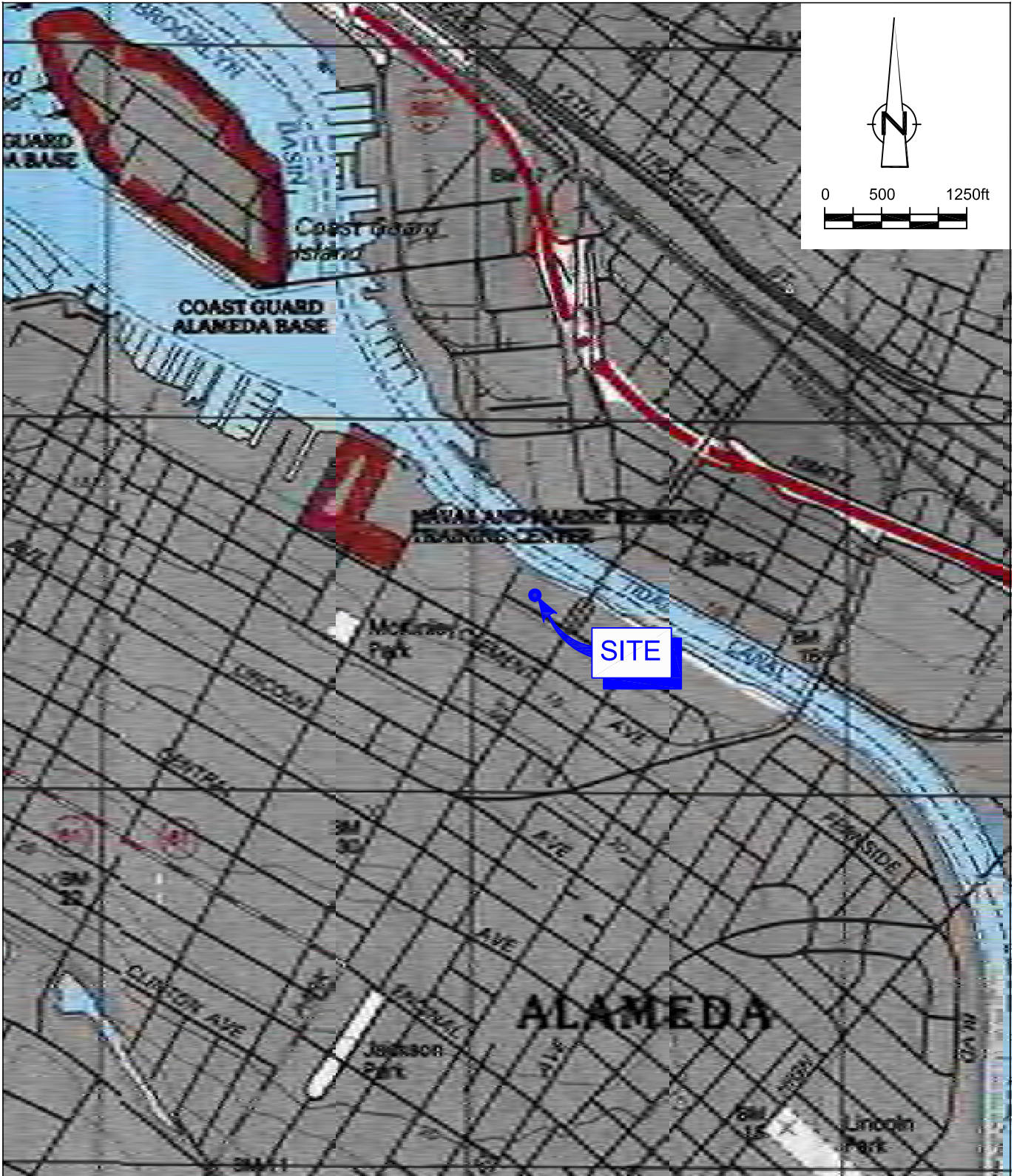
Reference No. 631916

- 4 -

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map - June 30, 2011
Figure 3	TPHd Concentrations in Groundwater - June 30, 2011
Figure 4	TPHg Concentrations in Groundwater - June 30, 2011
Figure 5	Benzene Concentrations in Groundwater - June 30, 2011
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Monitoring Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mr. Mike Bauer, Chevron (*electronic only*)
Ms. Julie Beck Ball
Mr. Peter Reinhold Beck
Mr. Monroe Wingate
Mr. Tom Foley

FIGURES

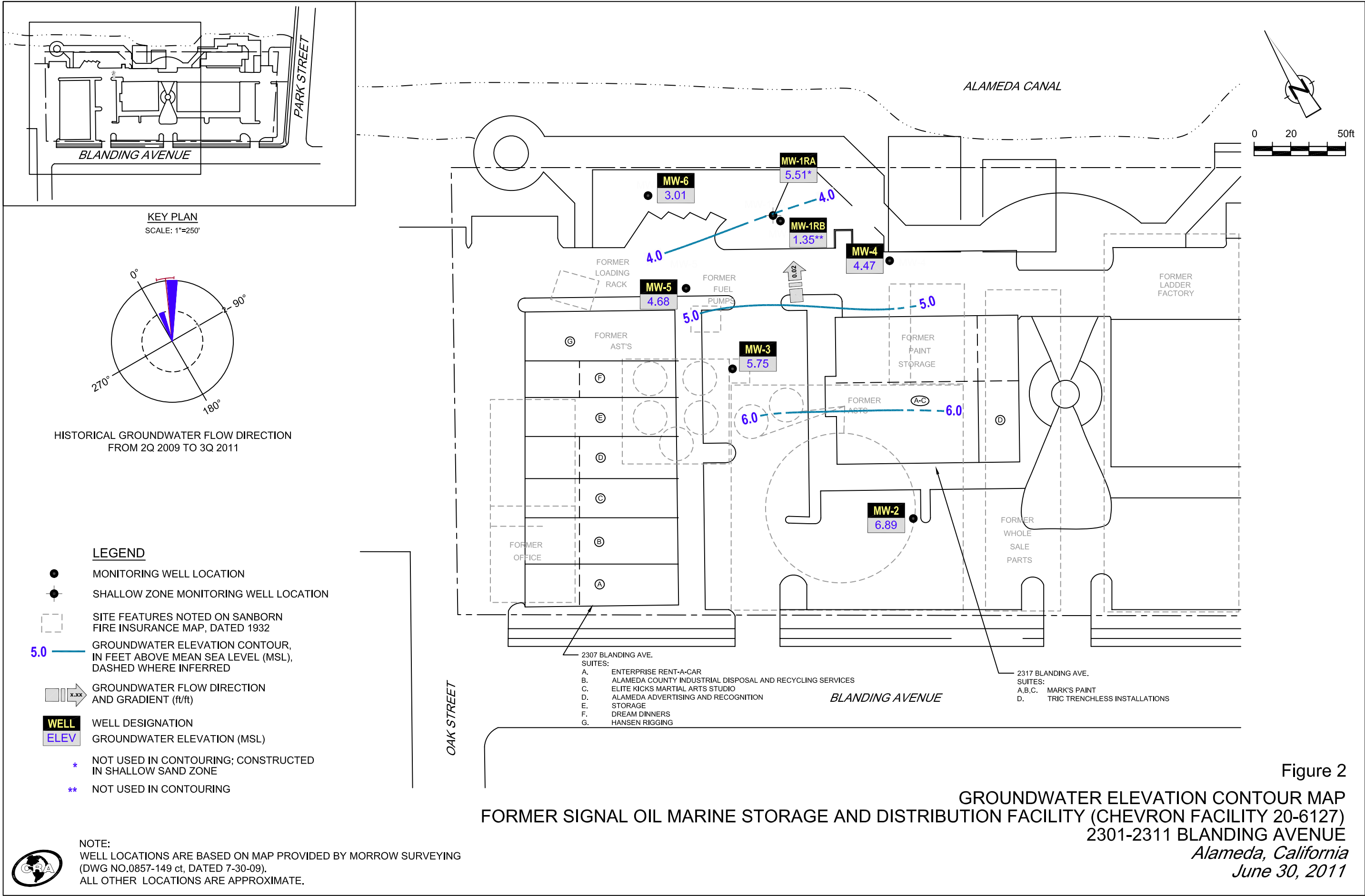


SOURCE: TOPOI MAPS.

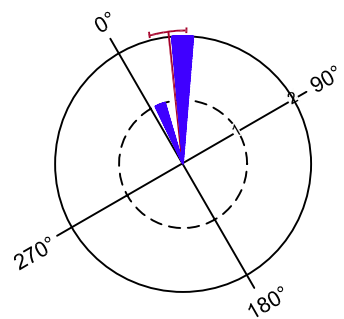
Figure 1

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





KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2011

LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- - - SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 5.0 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL ELEV — WELL DESIGNATION GROUNDWATER ELEVATION (MSL)
- * NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- ** NOT USED IN CONTOURING

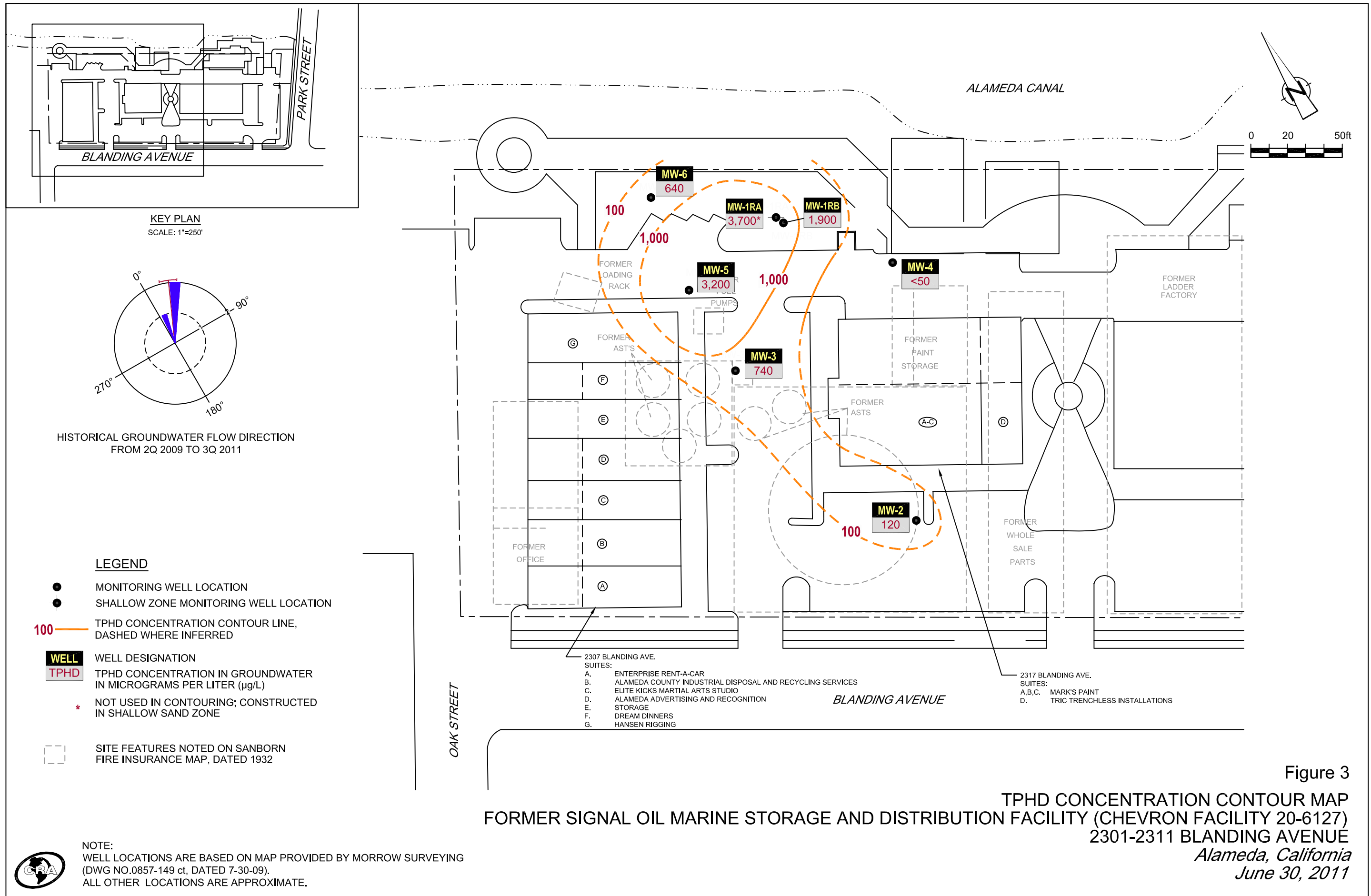
- 2307 BLANDING AVE. SUITES:
- A. ENTERPRISE RENT-A-CAR
 - B. ALAMEDA COUNTY INDUSTRIAL DISPOSAL AND RECYCLING SERVICES
 - C. ELITE KICKS MARTIAL ARTS STUDIO
 - D. ALAMEDA ADVERTISING AND RECOGNITION
 - E. STORAGE
 - F. DREAM DINNERS
 - G. HANSEN RIGGING

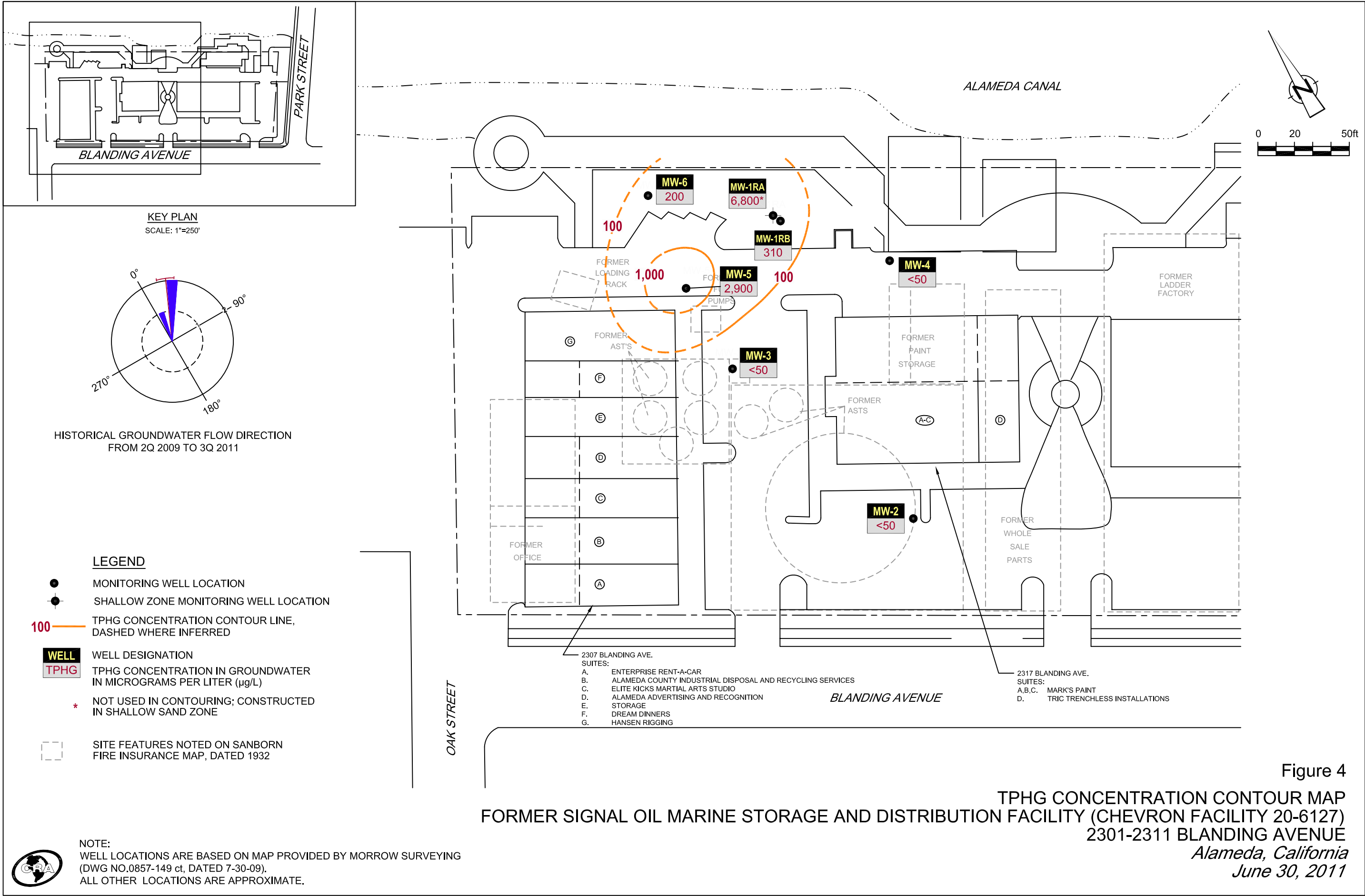
- 2317 BLANDING AVE. SUITES:
- A,B,C. MARK'S PAINT
 - D. TRIC TRENCHLESS INSTALLATIONS

**GROUNDWATER ELEVATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE**

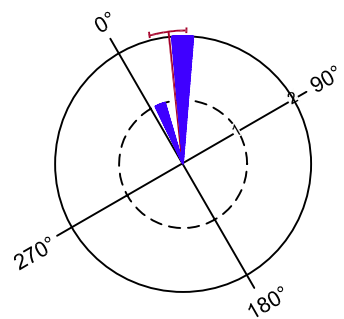
*Alameda, California
June 30, 2011*

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.





KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2011

LEGEND

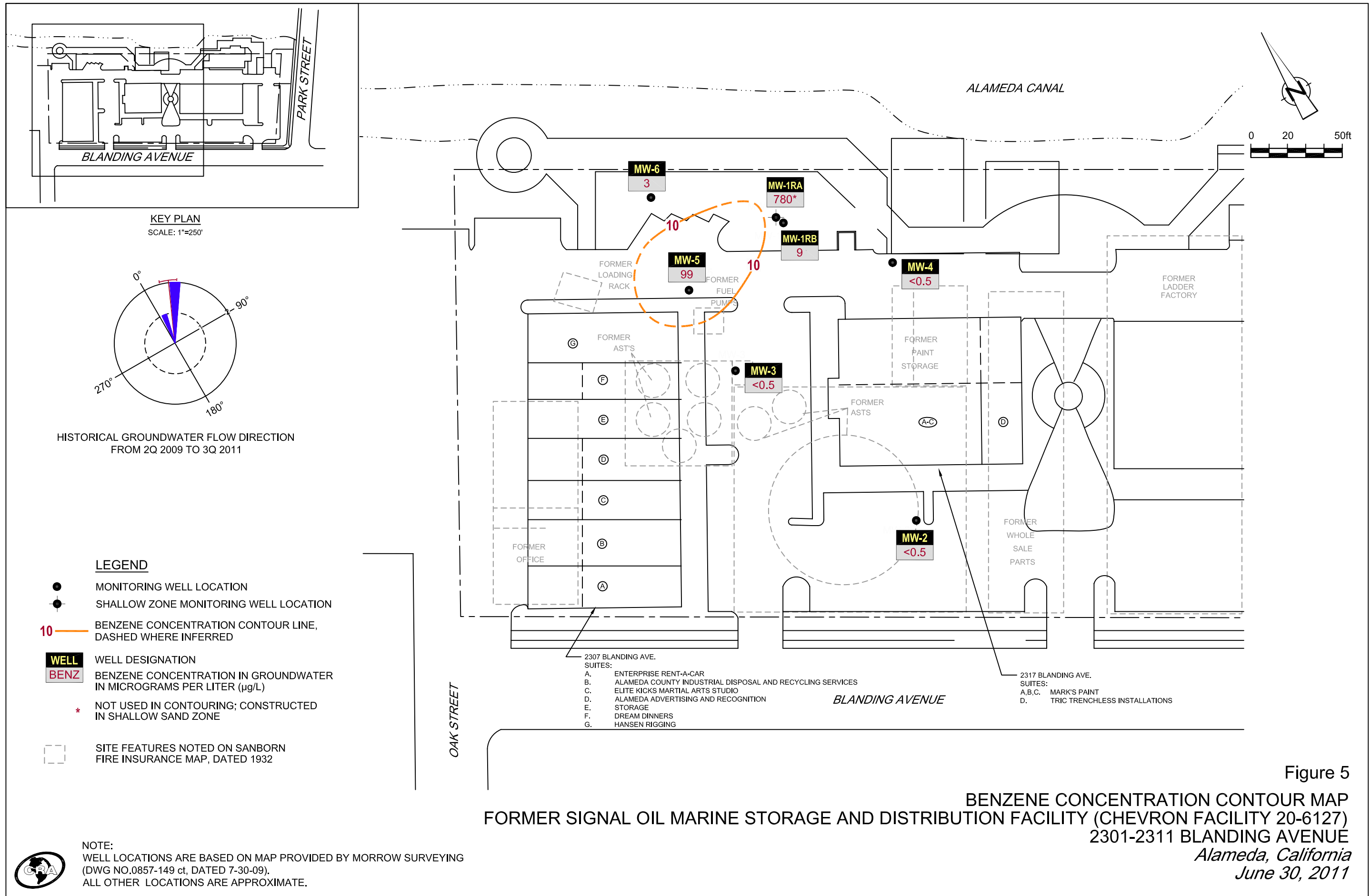
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 ——— TPHG CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL** WELL DESIGNATION
- TPHG** TPHG CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- * NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932

- 2307 BLANDING AVE. SUITES:
- A. ENTERPRISE RENT-A-CAR
 - B. ALAMEDA COUNTY INDUSTRIAL DISPOSAL AND RECYCLING SERVICES
 - C. ELITE KICKS MARTIAL ARTS STUDIO
 - D. ALAMEDA ADVERTISING AND RECOGNITION
 - E. STORAGE
 - F. DREAM DINNERS
 - G. HANSEN RIGGING

- 2317 BLANDING AVE. SUITES:
- A,B,C. MARK'S PAINT
 - D. TRIC TRENCHLESS INSTALLATIONS

Figure 4
TPHG CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
June 30, 2011

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.



TABLES

TABLE 1

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON FACILITY 20-6127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS					
					TPH-DRO	TPH-DRO w/Si Gel	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	µg/L	µg/L
MW-1	07/21/2010	13.49	9.47	4.02	440	-	65 J	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1	10/22/2010 ¹	13.49	-	-	-	-	-	-	-	-	-	-	-
MW-1RA	10/28/2010	13.02	9.23	3.79	-	4,000	6,400	830	22	65	20	-	-
MW-1RA	01/14/2011	13.02	7.20	5.82	-	1,500	790	160	2	1	1	-	-
MW-1RA	04/19/2011	13.02	7.42	5.60	-	3,000	3,800	600	9	18	9	-	-
MW-1RA	06/30/2011	13.02	7.51	5.51	-	3,700	6,800	780	13	36	13	-	-
MW-1RB	10/28/2010	13.21	9.00	4.21	-	1,600	650	3	<0.5	0.8	<0.5	-	-
MW-1RB	01/14/2011	13.21	10.97	2.24	-	960	150	1	<0.5	<0.5	<0.5	-	-
MW-1RB	04/19/2011	13.21	12.11	1.10	-	1,200	190	6	<0.5	<0.5	<0.5	-	-
MW-1RB	06/30/2011	13.21	11.86	1.35	-	1,900	310	9	<0.5	<0.5	<0.5	-	-
MW-2	07/21/2010	10.63	4.12	6.51	65 J	-	<50	<0.5	<0.5	<0.5	<0.5	-	-
MW-2	10/22/2010	10.63	4.31	6.32	-	58	<50	<0.5	<0.5	<0.5	<0.5	-	-
MW-2	10/28/2010 ²	10.63	3.65	6.98	-	-	-	-	-	-	-	-	-
MW-2	01/14/2011	10.63	3.12	7.51	-	68	<50	<0.5	<0.5	<0.5	<0.5	-	-
MW-2	04/19/2011	10.63	3.51	7.12	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-	-
MW-2	06/30/2011	10.63	3.74	6.89	-	120	<50	<0.5	<0.5	<0.5	<0.5	-	-

TABLE 1

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON FACILITY 20-6127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS				
					TPH-DRO	TPH-DRO w/ Si Gel	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	µg/L
MW-3	07/21/2010	10.72	5.09	5.63	640	-	65 J	0.6 J	<0.5	<0.5	<0.5	-
MW-3	10/22/2010	10.72	5.32	5.40	-	570	73	<0.5	<0.5	<0.5	<0.5	-
MW-3	10/28/2010 ²	10.72	4.74	5.98	-	-	-	-	-	-	-	-
MW-3	01/14/2011	10.72	4.11	6.61	-	1,000	91	<0.5	<0.5	<0.5	<0.5	-
MW-3	04/19/2011	10.72	5.03	5.69	-	1,200	180	<0.5	<0.5	<0.5	<0.5	-
MW-3	06/30/2011	10.72	4.97	5.75	-	740	<50	<0.5	<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-4	10/22/2010	11.40	6.87	4.53	-	91	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	10/28/2010 ²	11.40	6.38	5.02	-	-	-	-	-	-	-	-
MW-4	01/14/2011	11.40	5.32	6.08	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	04/19/2011	11.40	7.65	3.75	-	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	06/30/2011	11.40	6.93	4.47	-	<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	-
MW-5	10/22/2010	10.50	5.94	4.56	-	1,500	830	47	<0.5	1	<0.5	-
MW-5	10/28/2010 ²	10.50	5.17	5.33	-	-	-	-	-	-	-	-
MW-5	01/14/2011	10.50	4.40	6.10	-	1,800	2,100	61	4	1	6	-
MW-5	04/19/2011	10.50	5.69	4.81	-	2,000	2,200	73	4	1	6	-
MW-5	06/30/2011	10.50	5.82	4.68	-	3,200	2,900	99	6	1	7	-

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON FACILITY 20-6127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS					
					TPH-DRO	TPH-DRO w/ Si Gel	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	µg/L	µg/L
MW-6	10/28/2010	12.98	8.35	4.63	-	300	620	7	<0.5	1	2	-	-
MW-6	01/14/2011	12.98	7.58	5.40	-	560	120	3	<0.5	<0.5	<0.5	<0.5	-
MW-6	04/19/2011	12.98	9.90	3.08	-	590	240	7	<0.5	<0.5	<0.5	<0.5	-
MW-6	06/30/2011	12.98	9.97	3.01	-	640	200	3	<0.5	<0.5	<0.5	<0.5	-
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5	-
QA	06/30/2011	-	-	-	-	-	<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

**GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON FACILITY 20-6127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

Location	Date	TOC	DTW	GWE	HYDROCARBONS			PRIMARY VOCS					
					TPH-DRO	TPH-DRO w/Si Gel	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	µg/L	µg/L

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

J = Estimated concentration

* 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 Chacez 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 Destroyed and re-installed as MW-1RB.

2 Monitored only for the 10/28/10 Special Event

**WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON BULK PLANT 20-6127)
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA**

<i>Well ID</i>	<i>Date Installed</i>	<i>TOC</i>	<i>Total Depth (fbg)</i>	<i>Casing Diameter ¹ (inches)</i>	<i>Slot Size (inches)</i>	<i>Screen Interval (fbg)</i>	<i>Filter Pack (fbg)</i>	<i>Status</i>
<u>Monitoring Wells</u>								
MW-1	8/15/1990	13.49	19.5	2	0.020	4-19	3-19.5	Replaced w/MW-1RB
MW-1RA	8/4/2010	13.02	13	2	0.020	8-13	7-13	Active
MW-1RB	8/4/2010	13.21	20	2	0.020	16.5-20	15.5-20	Active
MW-2	6/19/2009	10.63	18	2	0.020	10.5-15.5	10-16	Active
MW-3	6/19/2009	10.72	18.5	2	0.020	13.5-18.5	12.5-18.5	Active
MW-4	6/19/2009	11.40	20.5	2	0.020	15.5-20.5	14.5-20.5	Active
MW-5	6/23/2009	10.50	18	2	0.020	13-18	12-18	Active
MW-6	8/4/2010	12.98	20	2	0.020	16.5-20	15.5-20	Active
<u>Vapor Wells</u>								
VP-1	7/9/2008	NS	4.25	1	0.020	3.75-4.25	3.5-4.5	Vapor only
VP-2	7/9/2008	NS	4.75	1	0.020	4.25-4.75	4-5	Vapor only
VP-3	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-4	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-5	7/14/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
VP-6	7/9/2008	NS	5.75	1	0.020	5.25-5.75	5-6	Vapor only
<u>Sub-Slab Vapor Probes</u>								
VP-7	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-8	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-9	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-10	7/22/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Destroyed
VP-13	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only

Abbreviations/ Notes

TOC = Top of casing elevation (feet above mean sea level)

¹ = Schedule 40 PVC casing material

fbg = Feet below grade

NA = Not applicable

NS = Not surveyed

ATTACHMENT A

MONITORING DATA PACKAGE



TRANSMITTAL

July 7, 2011
G-R #386498

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

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	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Third Quarter Event of June 30, 2011

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

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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID MW-1RA

Date Monitored: 6-30-11

Well Diameter 2

Total Depth 12.70 ft.

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

Depth to Water 7.51 ft.

Check if water column is less than 0.50 ft.

5.19 xVF 0.17 = 0.88 x3 case volume = Estimated Purge Volume: 3 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.54

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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: _____

Start Time (purge): 0952 Weather Conditions: clear
 Sample Time/Date: 10/2/6-30-11 Water Color: clear Odor: 0 IN moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° F)	D.O. (mg/L)	ORP (mV)
<u>0956</u>	<u>1</u>	<u>6.73</u>	<u>2314</u>	<u>18.0</u>	_____	_____
<u>0959</u>	<u>2</u>	<u>6.80</u>	<u>2325</u>	<u>17.9</u>	_____	_____
<u>1003</u>	<u>3</u>	<u>6.84</u>	<u>2317</u>	<u>18.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RA</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Soc

Well ID: MW-1RB Date Monitored: 6-30-11
 Well Diameter: 2
 Total Depth: 19.96 ft.
 Depth to Water: 11.86 ft. Check if water column is less than 0.50 ft.
8.10 xVF 0.17 = 1.38 x3 case volume = Estimated Purge Volume: 4.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.48

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

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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: _____

Start Time (purge): 1020 Weather Conditions: clear
 Sample Time/Date: 1040/6-30-11 Water Color: clear Odor: 01N moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.16

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>1025</u>	<u>1.5</u>	<u>6.91</u>	<u>2507</u>	<u>18.2</u>	_____	_____
<u>1028</u>	<u>3</u>	<u>6.82</u>	<u>2512</u>	<u>18.6</u>	_____	_____
<u>1032</u>	<u>4.5</u>	<u>6.86</u>	<u>2516</u>	<u>19.1</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-1RB</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX(8260)</u>
	<u>2</u> x 1 liter ambers	<u>YES</u>	<u>NP</u>	<u>LANCASTER</u>	<u>TPH-DRO w/sgc (8015)</u>

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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: See

Well ID: MW-2
 Well Diameter: 2
 Total Depth: 15.60 ft.
 Depth to Water: 3.74 ft.

Date Monitored: 6-30-11

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

Check if water column is less than 0.50 ft.

11.86 xVF 0.17 = 2.02 x3 case volume = Estimated Purge Volume: 6 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 6.11

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0655 Weather Conditions: clear
 Sample Time/Date: 0720 16-30-11 Water Color: clear Odor: Y10
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0700</u>	<u>2</u>	<u>7.33</u>	<u>2118</u>	<u>18.6</u>	_____	_____
<u>0704</u>	<u>4</u>	<u>7.36</u>	<u>2097</u>	<u>18.4</u>	_____	_____
<u>0708</u>	<u>6</u>	<u>7.31</u>	<u>2086</u>	<u>18.3</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x vov vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Joc

Well ID: MW-3 Date Monitored: 6-30-11

Well Diameter: 2
 Total Depth: 17.91 ft.
 Depth to Water: 4.97 ft.

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

Check if water column is less than 0.50 ft.
 $12.94 \times VF 0.17 = 2.20$ x3 case volume = Estimated Purge Volume: 6.5 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.55

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0730 Weather Conditions: clear
 Sample Time/Date: 0755 / 6-30-11 Water Color: clear Odor: DN moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 5.38

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 25)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>0735</u>	<u>2</u>	<u>7.35</u>	<u>2409</u>	<u>18.2</u>		
<u>0740</u>	<u>4</u>	<u>7.22</u>	<u>2396</u>	<u>18.5</u>		
<u>0746</u>	<u>6.5</u>	<u>7.26</u>	<u>2392</u>	<u>18.0</u>		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-3</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-4 Date Monitored: 6-30-11

Well Diameter: 2
 Total Depth: 20.23 ft.
 Depth to Water: 6.93 ft.

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

Check if water column is less than 0.50 ft.
 $13.30 \times VF \ 0.17 = 2.26$ x3 case volume = Estimated Purge Volume: 7 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.59

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

Sampling Equipment:
 Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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 / Absorbent Sock (circle one)
 Amt Removed from Skimmer: _____ gal
 Amt Removed from Well: _____ gal
 Water Removed: _____

Start Time (purge): 0807 Weather Conditions: clear
 Sample Time/Date: 0830 / 6-30-11 Water Color: clear Odor: YIN
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.18

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0812</u>	<u>2.5</u>	<u>6.95</u>	<u>2448</u>	<u>18.1</u>	_____	_____
<u>0816</u>	<u>5</u>	<u>7.18</u>	<u>2456</u>	<u>18.6</u>	_____	_____
<u>0820</u>	<u>7</u>	<u>7.25</u>	<u>2451</u>	<u>18.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-4</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-5 Date Monitored: 6-30-11

Well Diameter: 2
 Total Depth: 17.93 ft.
 Depth to Water: 5.82 ft.

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

Check if water column is less than 0.50 ft.

12.11 xVF 0.17 = 2.06 x3 case volume = Estimated Purge Volume: 6.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.24

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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: _____

Start Time (purge): 0842 Weather Conditions: clear
 Sample Time/Date: 0910 / 6-30-11 Water Color: clear Odor: YIN moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.39

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>0849</u>	<u>2</u>	<u>6.66</u>	<u>2612</u>	<u>18.7</u>	_____	_____
<u>0853</u>	<u>4</u>	<u>6.68</u>	<u>2587</u>	<u>18.5</u>	_____	_____
<u>0858</u>	<u>6.5</u>	<u>6.73</u>	<u>2573</u>	<u>18.5</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (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: 6-30-11 (inclusive)
 City: Alameda, CA Sampler: Joe

Well ID: MW-6 Date Monitored: 6-30-11

Well Diameter: 2

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

Total Depth: 20.04 ft.

Depth to Water: 9.97 ft. Check if water column is less than 0.50 ft.

10.07 x VF 0.17 = 1.71 x3 case volume = Estimated Purge Volume: 5.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.98

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer
 Pressure Bailer _____
 Metal Filters _____
 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: _____

Start Time (purge): 0920 Weather Conditions: clear
 Sample Time/Date: 0945 6-30-11 Water Color: clear Odor: DN moderate
 Approx. Flow Rate: _____ gpm. Sediment Description: none
 Did well de-water? no If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.61

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - 10)	Temperature (°F)	D.O. (mg/L)	ORP (mV)
<u>0924</u>	<u>1.5</u>	<u>6.94</u>	<u>2268</u>	<u>18.5</u>	_____	_____
<u>0927</u>	<u>3</u>	<u>6.85</u>	<u>2276</u>	<u>18.1</u>	_____	_____
<u>0933</u>	<u>5.5</u>	<u>6.83</u>	<u>2281</u>	<u>18.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	<u>2</u> x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc (8015)

COMMENTS:

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

ATTACHMENT B

LABORATORY ANALYTICAL 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

July 14, 2011

Project: 206127

Submittal Date: 07/01/2011
Group Number: 1254334
PO Number: 0015074462
Release Number: BAUER
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LLI) #</u>
QA-T-110630 NA Water	6333695
MW-1RA-W-110630 Grab Water	6333696
MW-1RB-W-110630 Grab Water	6333697
MW-2-W-110630 Grab Water	6333698
MW-3-W-110630 Grab Water	6333699
MW-4-W-110630 Grab Water	6333700
MW-5-W-110630 Grab Water	6333701
MW-6-W-110630 Grab Water	6333702

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: Rachelle Munoz
ELECTRONIC COPY TO	Chevron c/o CRA	Attn: Report Contact
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	CRA	Attn: Brian Silva

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

Respectfully Submitted,



Christine Dulaney
Senior Specialist



Analysis Report

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

Sample Description: QA-T-110630 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 QA

LLI Sample # WW 6333695
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLAQA

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	N.D.	0.5 ug/l	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					
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 8260B Water	SW-846 8260B	1	F111882AA	07/07/2011 11:14	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 11:14	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11187A07A	07/07/2011 08:46	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11187A07A	07/07/2011 08:46	Laura M Krieger	1



Analysis Report

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

Sample Description: MW-1RA-W-110630 Grab Water
Facility# 206127 **Job#** 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-1RA

LLI Sample # WW 6333696
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 10:12 by JA

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA1A

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	780	10	20
10943	Ethylbenzene	100-41-4	36	1	2
10943	Toluene	108-88-3	13	1	2
10943	Xylene (Total)	1330-20-7	13	1	2
GC Volatiles SW-846 8015B					
01728	TPH-GRO N. CA water C6-C12	n.a.	6,800	250	5
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	3,700	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	F111882AA	07/07/2011 11:35	Nicholas R Rossi	2
10943	BTEX 8260B Water	SW-846 8260B	1	F111882AA	07/07/2011 11:57	Nicholas R Rossi	20
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 11:35	Nicholas R Rossi	2
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F111882AA	07/07/2011 11:57	Nicholas R Rossi	20
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11187A07A	07/07/2011 16:31	Laura M Krieger	5
01146	GC VOA Water Prep	SW-846 5030B	1	11187A07A	07/07/2011 16:31	Laura M Krieger	5
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 03:25	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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

Sample Description: MW-1RB-W-110630 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1RB

LLI Sample # WW 6333697
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 10:40 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA1B

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	9	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					
01728	TPH-GRO N. CA water C6-C12	n.a.	310	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	1,900	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	F111882AA	07/07/2011 12:18	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 12:18	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11187A07A	07/07/2011 09:12	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11187A07A	07/07/2011 09:12	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 02:42	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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

Sample Description: MW-2-W-110630 Grab Water
 Facility# 206127 Job# 386498 GRD
 2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Sample # WW 6333698
 LLI Group # 1254334
 Account # 10904

Project Name: 206127

Collected: 06/30/2011 07:20 by JA

Chevron

6001 Bollinger Canyon Rd L4310
 San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA02

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
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					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	120	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	F111882AA	07/07/2011 12:39	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 12:39	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11187A07A	07/07/2011 16:56	Laura M Krieger	1
01146	GC VOA Water Prep	SW-846 5030B	1	11187A07A	07/07/2011 16:56	Laura M Krieger	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 01:17	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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

Sample Description: MW-3-W-110630 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6333699
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 07:55 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA03

CAT No.	Analysis Name	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					
		SW-846 8015B	ug/l	ug/l	
w/Si Gel					
06610	TPH-DRO CA C10-C28 w/ Si Gel	n.a.	740	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	F111882AA	07/07/2011 13:01	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 13:01	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11189A07A	07/08/2011 20:38	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11189A07A	07/08/2011 20:38	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 02:21	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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Sample Description: MW-4-W-110630 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Sample # WW 6333700
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 08:30 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA04

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
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					
01728	TPH-GRO N. CA water C6-C12	n.a.	N.D.	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
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	F111882AA	07/07/2011 13:23	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 13:23	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11189A07A	07/08/2011 21:04	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11189A07A	07/08/2011 21:04	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 01:38	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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Page 1 of 1

Sample Description: MW-5-W-110630 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Sample # WW 6333701
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 09:10 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA05

CAT No.	Analysis Name	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	99	0.5	1
10943	Ethylbenzene	100-41-4	1	0.5	1
10943	Toluene	108-88-3	6	0.5	1
10943	Xylene (Total)	1330-20-7	7	0.5	1
GC Volatiles					
		SW-846 8015B	ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,900	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.	3,200	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	F111882AA	07/07/2011 13:44	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 13:44	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11189A07A	07/08/2011 21:30	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11189A07A	07/08/2011 21:30	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 03:04	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1



Analysis Report

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

Sample Description: MW-6-W-110630 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-6

LLI Sample # WW 6333702
LLI Group # 1254334
Account # 10904

Project Name: 206127

Collected: 06/30/2011 09:45 by JA

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 07/01/2011 09:10

Reported: 07/14/2011 10:39

BLA06

CAT No.	Analysis Name	CAS Number	As Received Result	As Received Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B					
10943	Benzene	71-43-2	3	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					
01728	TPH-GRO N. CA water C6-C12	n.a.	200	50	1
GC Extractable TPH SW-846 8015B					
w/Si Gel					
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	F111882AA	07/07/2011 14:06	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F111882AA	07/07/2011 14:06	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11189A07A	07/08/2011 21:56	Catherine J Schwarz	1
01146	GC VOA Water Prep	SW-846 5030B	1	11189A07A	07/08/2011 21:56	Catherine J Schwarz	1
06610	TPH-DRO CA C10-C28 w/ Si Gel	SW-846 8015B	1	111870023A	07/08/2011 01:59	Glorines Suarez-Rivera	1
11180	Low Vol Ext(W) w/SG	SW-846 3510C	1	111870023A	07/07/2011 08:00	Catherine R Wiker	1

Quality Control Summary

 Client Name: Chevron
 Reported: 07/14/11 at 10:39 AM

Group Number: 1254334

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: F111882AA	Sample number(s): 6333695-6333702							
Benzene	N.D.	0.5	ug/l	92	89	79-120	4	30
Ethylbenzene	N.D.	0.5	ug/l	92	90	79-120	3	30
Toluene	N.D.	0.5	ug/l	93	89	79-120	4	30
Xylene (Total)	N.D.	0.5	ug/l	91	90	80-120	2	30
Batch number: 11187A07A	Sample number(s): 6333695-6333698							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	118	75-135	8	30
Batch number: 11189A07A	Sample number(s): 6333699-6333702							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	109	109	75-135	0	30
Batch number: 111870023A	Sample number(s): 6333696-6333702							
TPH-DRO CA C10-C28 w/ Si Gel	N.D.	32.	ug/l	91	91	52-126	0	20

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: F111882AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6333695	96	102	102	93
6333696	92	95	102	98
6333697	96	102	101	97
6333698	96	102	101	95
6333699	96	101	100	95
6333700	96	100	101	93
6333701	93	97	103	101
6333702	98	104	100	94
Blank	97	102	100	93
LCS	96	101	101	99
LCSD	96	103	102	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12

Batch number: 11187A07A

Trifluorotoluene-F

*- 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
Reported: 07/14/11 at 10:39 AM

Group Number: 1254334

Surrogate Quality Control

6333695	104
6333696	126
6333697	107
6333698	97
Blank	99
LCS	109
LCSD	112

Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11189A07A
Trifluorotoluene-F

6333699	98
6333700	99
6333701	157*
6333702	104
Blank	100
LCS	111
LCSD	111

Limits: 63-135

Analysis Name: TPH-DRO CA C10-C28 w/ Si Gel
Batch number: 111870023A
Orthoterphenyl

6333696	95
6333697	101
6333698	101
6333699	102
6333700	97
6333701	100
6333702	102
Blank	96
LCS	118
LCSD	117

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.

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 <u>limit of quantitation</u> , the smallest amount of analyte which can be reliably determined using this specific test.		
>	greater than		
J	estimated value – The result is \geq 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	Inorganic Qualifiers
A TIC is a possible aldol-condensation product	B Value is $<$ CRDL, but \geq IDL
B Analyte was also detected in the blank	E Estimated due to interference
C Pesticide result confirmed by GC/MS	M Duplicate injection precision not met
D Compound quantitated on a diluted sample	N Spike sample not within control limits
E Concentration exceeds the calibration range of the instrument	S Method of standard additions (MSA) used for calculation
N Presumptive evidence of a compound (TICs only)	U Compound was not detected
P Concentration difference between primary and confirmation columns $>$ 25%	W Post digestion spike out of control limits
U Compound was not detected	* Duplicate analysis not within control limits
X,Y,Z Defined in case narrative	+ 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.

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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	TQC* (fL)	DTW (fL)	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
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WELL ID/ DATE	TOC* (fl.)	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 ¹⁶	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	--

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WELL ID/ DATE	TQC* (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

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WELL ID/ DATE	TOC* (fl.)	DTW (fl.)	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

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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

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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