Mike Bauer
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
145 S. State College Blvd
Brea, CA 92821
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December 12, 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 *Fourth 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,

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

December 12, 2011 Reference No. 631916

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

Re: Fourth 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 *Fourth 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 October 24, 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' November 1, 2011 *Analytical Results* is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF FOURTH QUARTER 2011 EVENT

On October 14, 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 0.01
- Depth to Water 3.52 to 12.14 feet below grade

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

TABLE A GROUNDWATER ANALYTICAL DATA

Well ID	*TPHd[1] (µg/L)*	*TPHg (µg/L)*	*Benzene (µg/L)*	*Toluene (µg/L)*	*Ethylbenzene (µg/L)*	*Total Xylenes (µg/L)*
ESLs	***100***	***100***	***1***	***40***	***30***	***20***
MW-1RA	**6,900/360**	**6,800**	**1,300**	19	**51**	14
MW-1RB	**4,000/**57	**300**	**15**	<0.5	<0.5	<0.5
MW-2	**160/**<50	<50	<0.5	<0.5	<0.5	<0.5
MW-3	**1,800/**<50	88	<0.5	<0.5	<0.5	<0.5
MW-4	**440/**<50	<50	<0.5	<0.5	<0.5	<0.5
MW-5	**4,600/**89	**2,300**	**76**	5	1	5
MW-6	**1,700/**<50	**510**	**10**	<0.5	<0.5	<0.5

ESL Environmental screening level
1 TPHd without and with 10 gram silica gel cleanup
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).
- Analysis of TPHd using a 10 gram silica gel column cleanup resulted in a significant reduction in dissolved TPHd concentrations; only the sample from MW-1RA was above the ESL.
- 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

December 12, 2011 Reference No. 631916

ANTICIPATED FUTURE ACTIVITIES

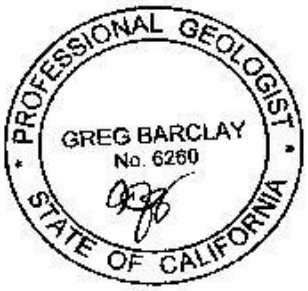
Groundwater Monitoring
G-R will monitor and sample site wells per the established schedule. CRA will submit a groundwater monitoring and sampling report.

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 on and/or approval of 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



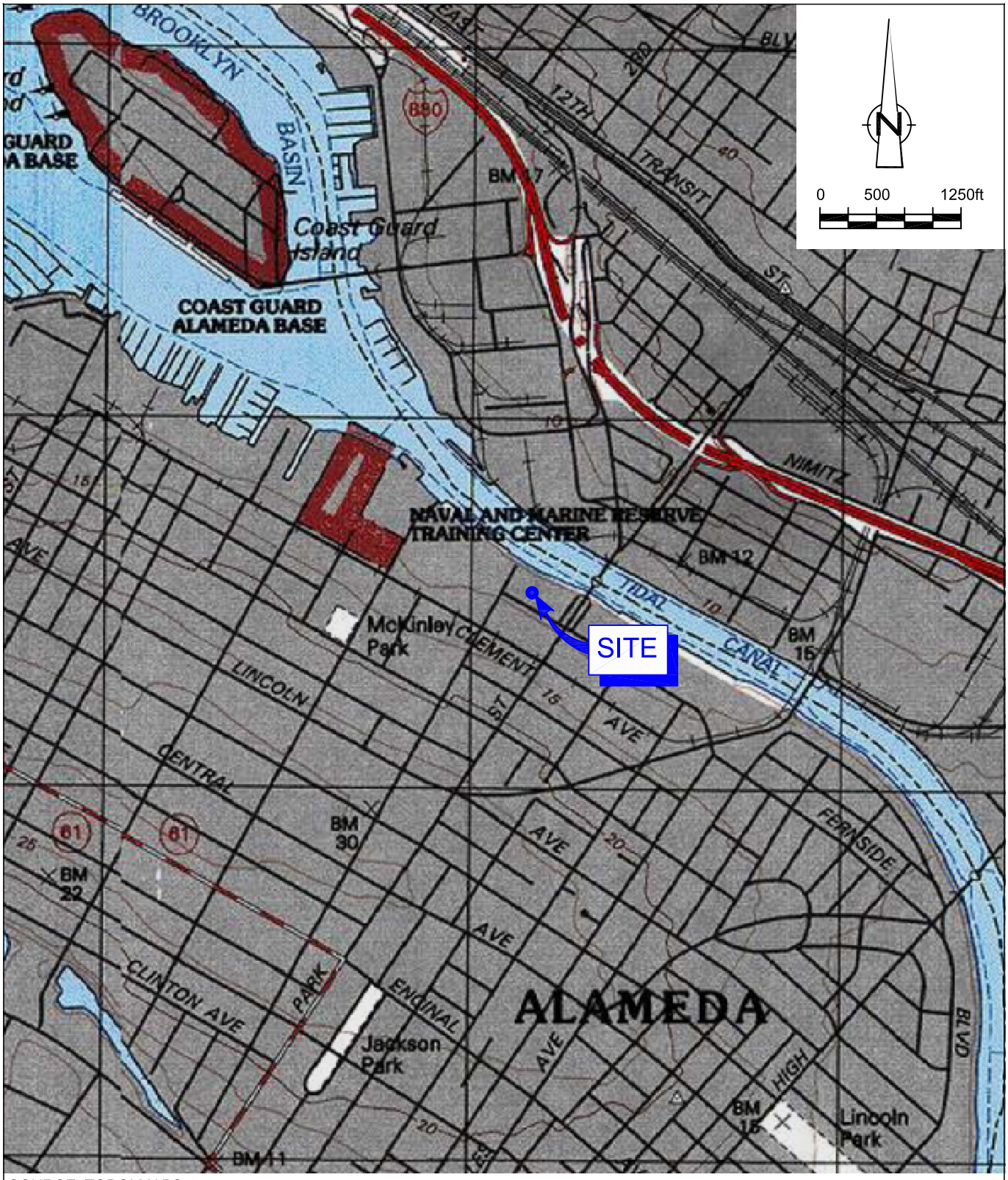
Brian Silva Greg Barclay, PG 6260

BS/cw/23
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map – October 14, 2011
Figure 3	TPHd Concentrations in Groundwater – October 14, 2011
Figure 4	TPHg Concentrations in Groundwater – October 14, 2011
Figure 5	Benzene Concentrations in Groundwater – October 14, 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

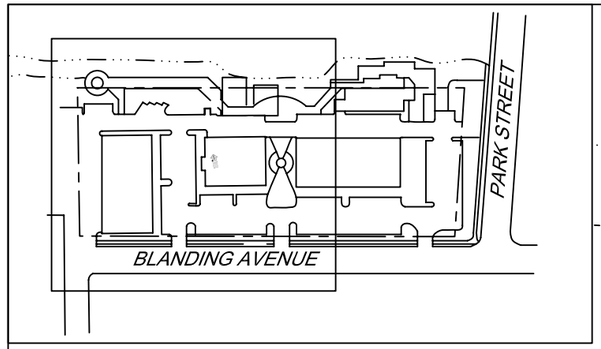


SOURCE: TOPO! MAPS.

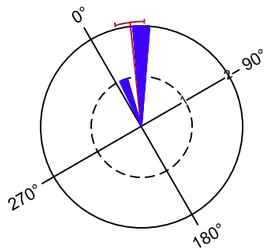
Figure 1

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

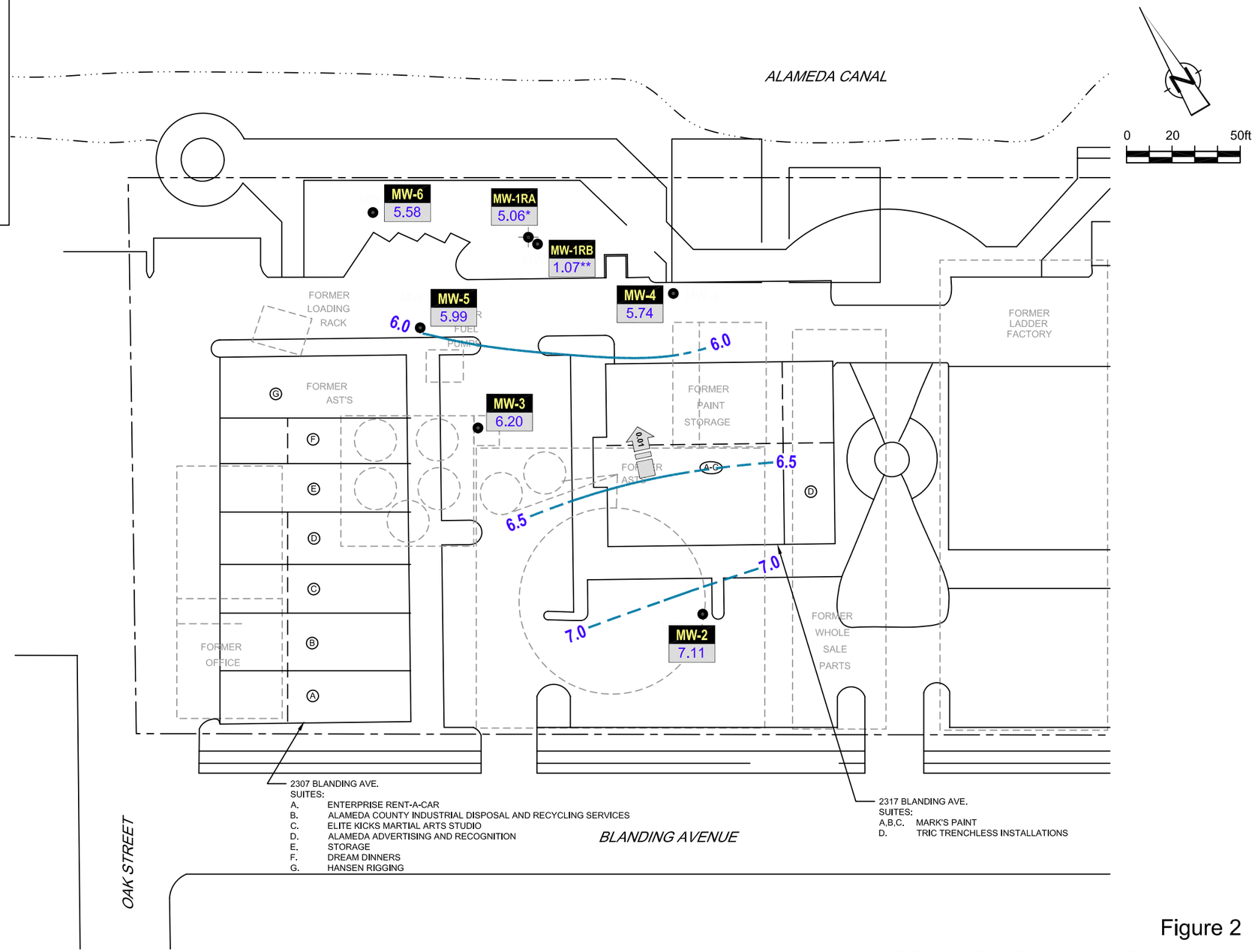
631916-95(023)GN-EM001 NOV 11/2011



KEY PLAN
SCALE: 1"=250'



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



LEGEND

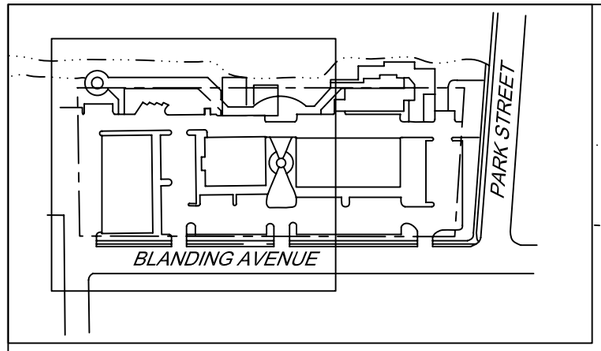
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 6.0 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL / ELEV —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

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.

Figure 2

GROUNDWATER ELEVATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
October 14, 2011

631916-95(023)GN-EM002 DEC 7/2011



KEY PLAN
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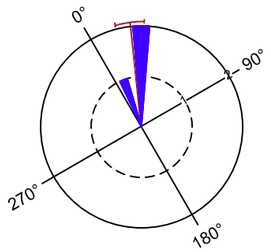
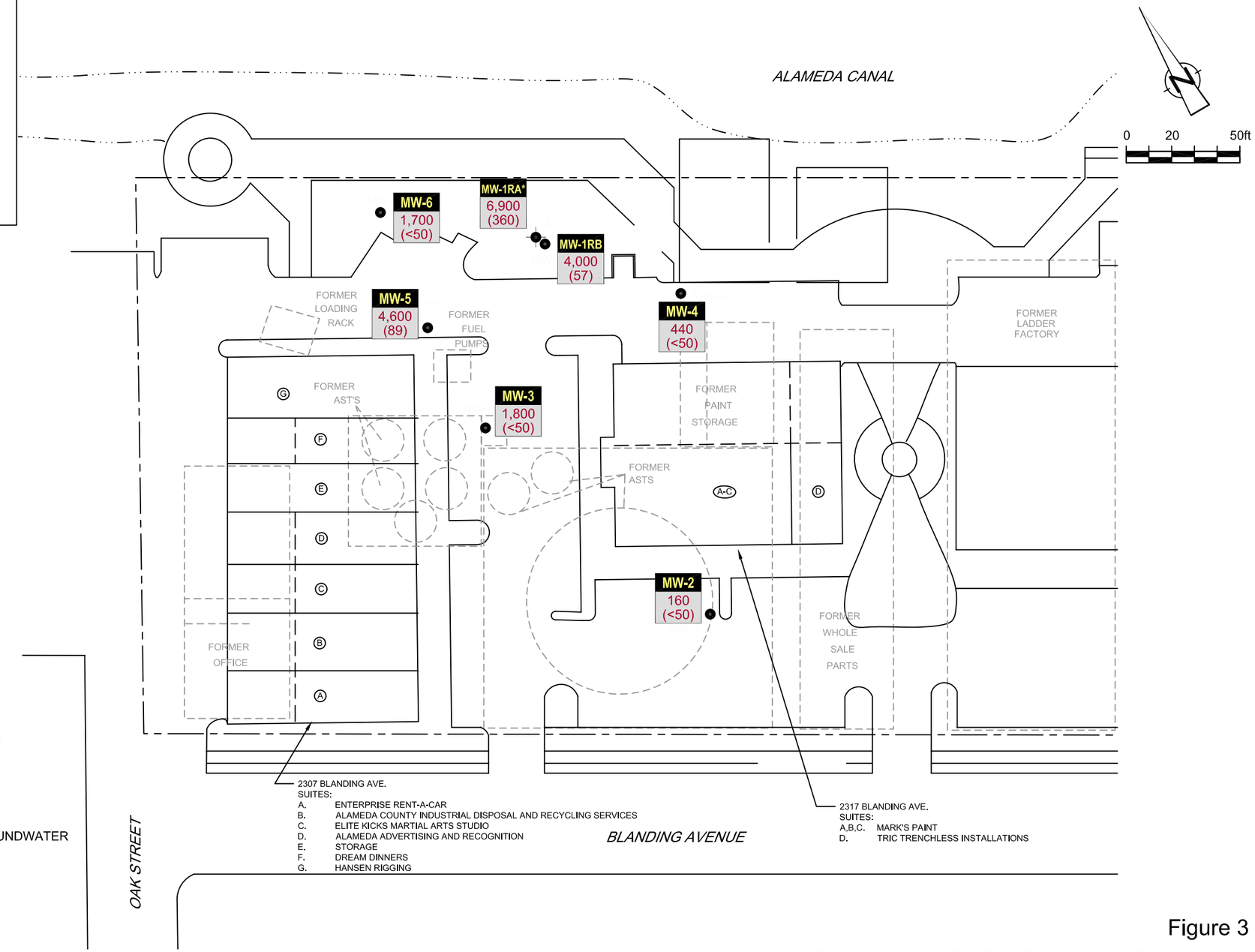


HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2011



LEGEND

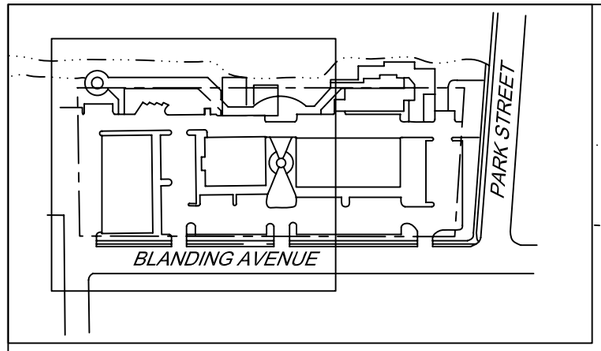
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 — TPHD CONCENTRATION USING SILICA GEL CLEAN UP CONTOUR LINE, DASHED WHERE INFERRED
- WELL DESIGNATION
- WELL / TPHD (TPHD) — TPHD CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L); TPHD WITH SILICA GEL CONCENTRATION IN 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

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.

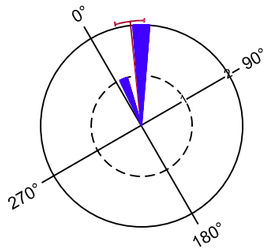
Figure 3

TPHD CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
October 14, 2011

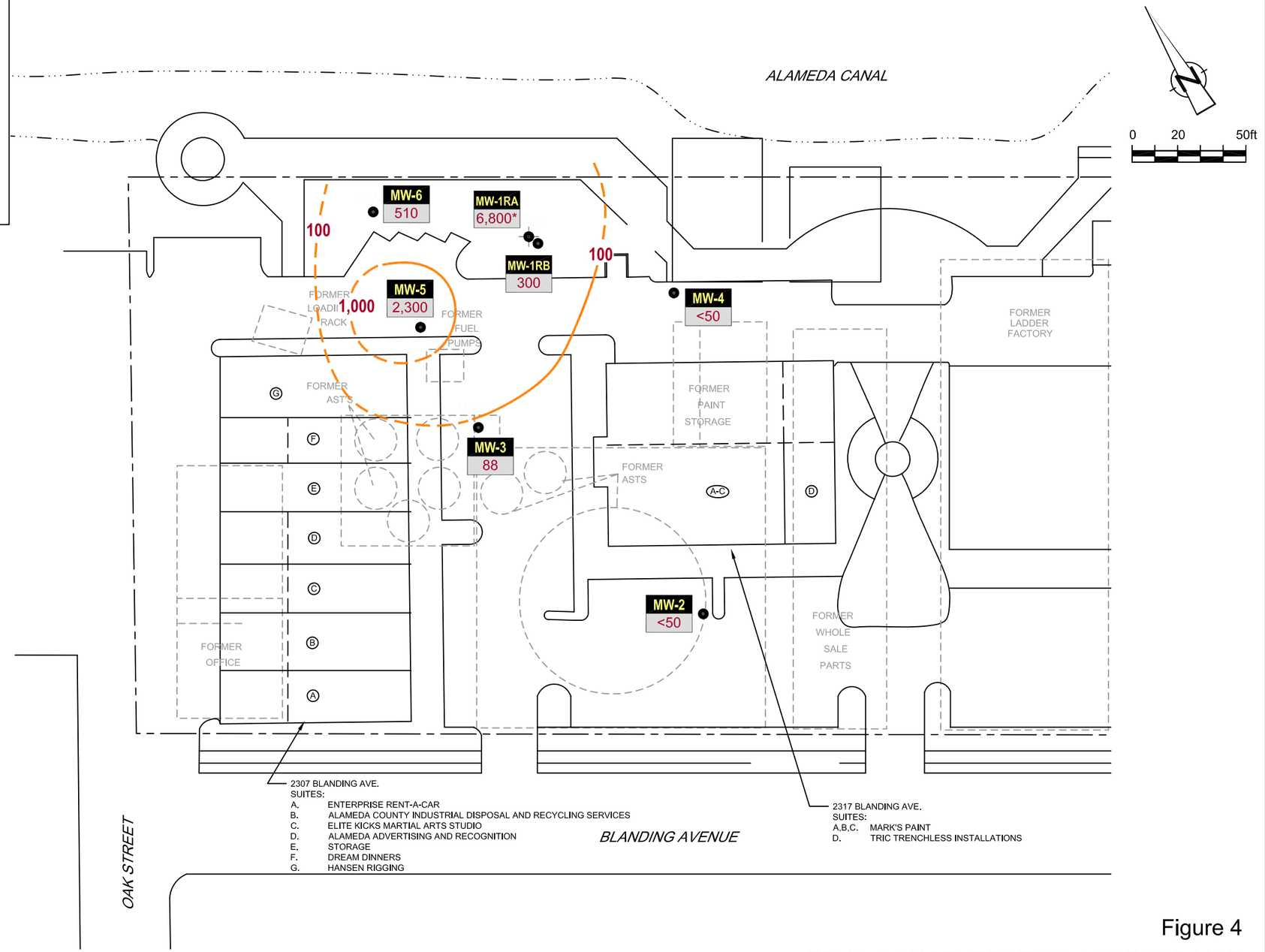
631916-95(023)GN-EM003 DEC 7/2011



KEY PLAN
SCALE: 1"=250'



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



LEGEND

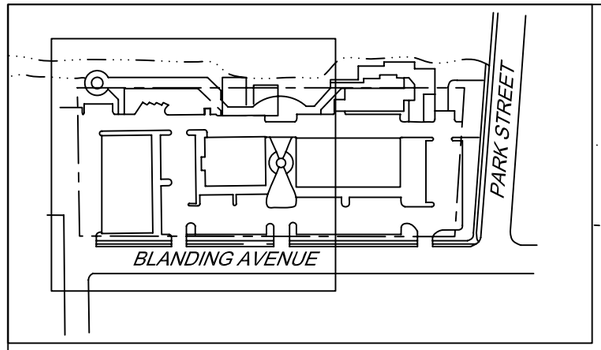
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 — TPHG CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL / TPHG — WELL DESIGNATION; TPHG CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- * NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- SITE FEATURES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

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.

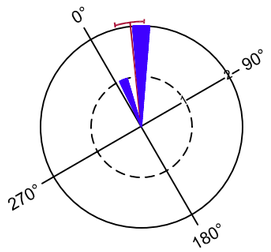
Figure 4

TPHG CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
October 14, 2011

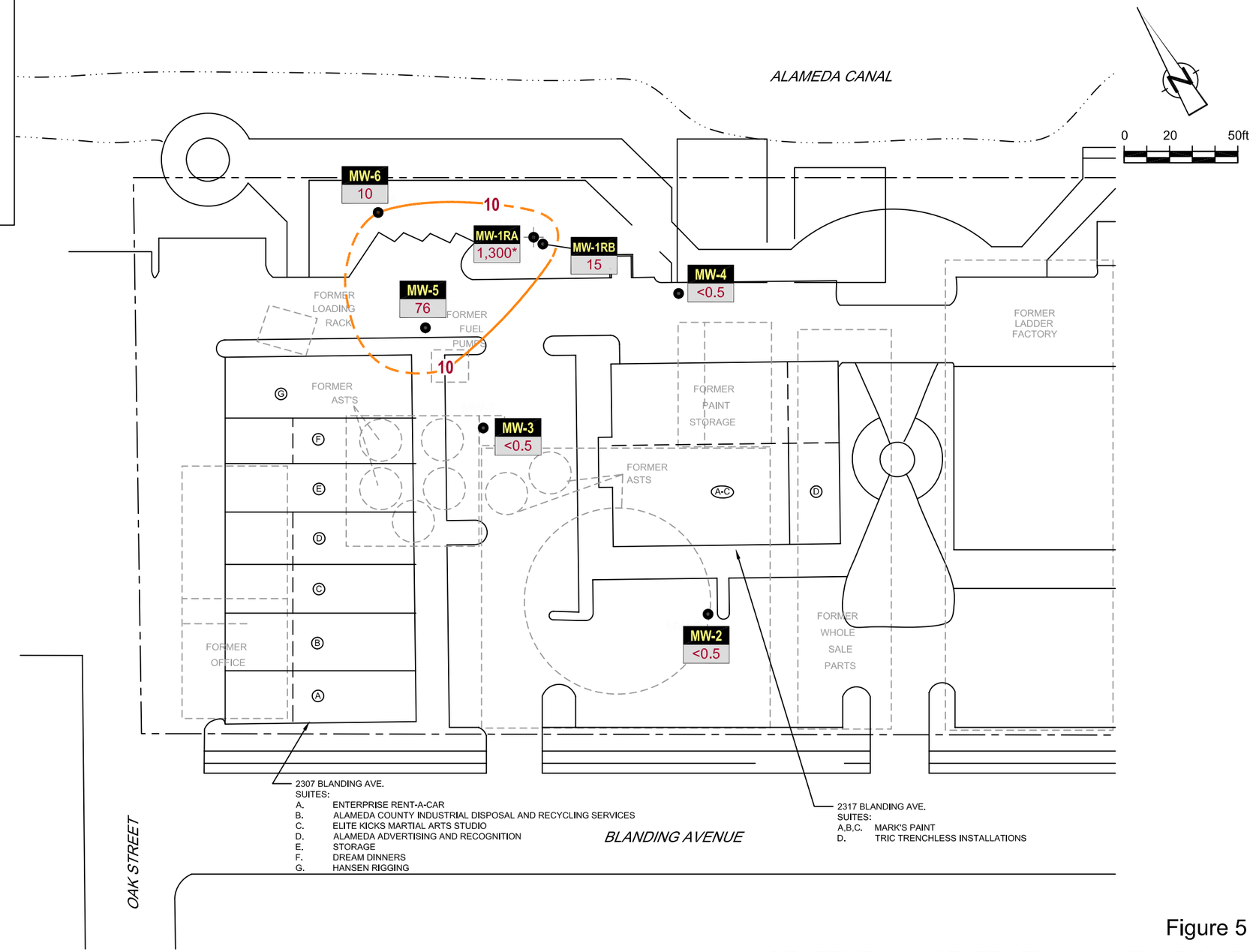
631916-95(023)GN-EM004 NOV 11/2011



KEY PLAN
SCALE: 1"=250'



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



LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 10 — BENZENE CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL — WELL DESIGNATION
- BENZ — BENZENE 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

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.

Figure 5

BENZENE CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 20-6127)
2301-2311 BLANDING AVENUE
Alameda, California
October 14, 2011

TABLES

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON FACILITY 20-6127
2307 BLANDING AVENUE, ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*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-1	07/21/2010	13.49	9.47	4.02	440	-	65 J	<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-1RA	**10/14/2011**	**13.02**	**7.96**	**5.06**	**6,900**	**360**	**6,800**	**1,300**	**19**	**51**	**14**	**-**
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-1RB	**10/14/2011**	**13.21**	**12.14**	**1.07**	**4,000**	**57**	**300**	**15**	**<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	-
MW-2	**10/14/2011**	**10.63**	**3.52**	**7.11**	**160**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
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	-

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON FACILITY 20-6127
2307 BLANDING AVENUE, ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*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	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-3	**10/14/2011**	**10.72**	**4.52**	**6.20**	**1,800**	**<50**	**88**	**<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-4	**10/14/2011**	**11.40**	**5.66**	**5.74**	**440**	**<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	-
MW-5	**10/14/2011**	**10.50**	**4.51**	**5.99**	**4,600**	**89**	**2,300**	**76**	**5**	**1**	**5**	**-**
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	-
MW-6	04/19/2011	12.98	9.90	3.08	-	590	240	7	<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	-
MW-6	**10/14/2011**	**12.98**	**7.40**	**5.58**	**1,700**	**<50**	**510**	**10**	**<0.5**	**<0.5**	**<0.5**	**-**
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON FACILITY 20-6127
2307 BLANDING AVENUE, ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*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*
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/28/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/14/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	06/30/2011	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	**10/14/2011**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**

TABLE 1
GROUNDWATER MONITORING AND SAMPLING DATA
FORMER CHEVRON FACILITY 20-6127
2307 BLANDING AVENUE, ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*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*

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

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

TABLE 2

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

Well ID	*Date Installed*	*TOC*	*Total Depth (fbg)*	*Casing Diameter* [1] *(inches)*	*Slot Size (inches)*	*Screen Interval (fbg)*	*Filter Pack (fbg)*	*Status*
Monitoring Wells								
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
Vapor Wells								
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
Sub-Slab Vapor Probes								
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

GETTLER-RYAN INC.

TRANSMITTAL

October 24, 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 **Fourth Quarter Event of October 14, 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

6747 Sierra Court, Suite J • **Dublin**, CA 94568 • (925) 551-7555 • Fax (925) 551-7888
3140 Gold Camp Drive, Suite 170 • **Rancho Cordova**, CA 95670 • (916) 631-1300 • Fax (916) 631-1317

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #206127 Job # 386498

Site Address: 2301-2337 Blanding Avenue Event Date: 10/14/14

City: Alameda, CA Sampler: JW

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-1RA	OK							N	N	8" Morrison	Y
MW-1RD	OK										
MW-2	OK									12" Emco	
MW-3	OK										
MW-4	OK										
MW-5	OK										
MW-6	OK									8" Morrison	

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: 10/14/11 (inclusive)
City: Alameda, CA | Sampler: JH

Well ID: MW-1RA | Date Monitored: 10/14/11
Well Diameter: 2
Total Depth: 12.70 ft.
Depth to Water: 7.96 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.

4.74 xVF .17 = .80 x3 case volume = Estimated Purge Volume: 2.41 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.90

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1400 | Weather Conditions: Clear
Sample Time/Date: 1435 / 10/14/11 | Water Color: Grey | Odor: Y / (N)
Approx. Flow Rate: — gpm. | Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.76

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1403	1.0	7.66	861	23.7		
1407	1.5	7.58	894	23.9		
1411	2.5	7.51	920	23.8		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-1RA	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: JW

Well ID MW-1RB Date Monitored: 10/14/11
Well Diameter 2
Total Depth 19.96 ft.
Depth to Water 12.14 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.

7.82 xVF .17 = 1.32 x3 case volume = Estimated Purge Volume: 3.98 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 13.70

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: _____

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
Pressure Bailer	
Metal Filters	
Peristaltic Pump	
QED Bladder Pump	
Other:	

Start Time (purge): 1300 Weather Conditions: Clear
Sample Time/Date: 1340 / 10/14/11 Water Color: Grey Odor: Y / (N)
Approx. Flow Rate: ~ gpm. Sediment Description: Light
Did well de-water? NO If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 13.50

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm / µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1303	1	7.61	682	23.2		
1307	2.5	7.50	694	23.1		
1311	4.0	7.33	727	22.9		

LABORATORY INFORMATION

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

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-2 Date Monitored: 10/14/11
Well Diameter 2
Total Depth 15.60 ft.
Depth to Water 3.52 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.

12.08 xVF .17 = 2.05 x3 case volume = Estimated Purge Volume: 6.16 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.93

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 0830 Weather Conditions: Clear
Sample Time/Date: 0915 / 10/14/11 Water Color: ~~Clear~~ Grey Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Lt Brn
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 4.86

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - (µS))	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0836	2	7.62	963	20.9		
0842	4	7.54	921	21.2		
0849	6	7.35	905	21.3		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-2	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: SH

Well ID MW-3 Date Monitored: 10/14/11
Well Diameter 2
Total Depth 17.91 ft.
Depth to Water 4.52 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.

13.39 xVF .17 = 2.27 x3 case volume = Estimated Purge Volume: 6.82 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.19

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 0740 Weather Conditions: Clear
Sample Time/Date: 0810 / 10/14/11 Water Color: Gray Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Low
Did well de-water? no If yes, Time: Volume: gal. DTW @ Sampling: 4.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0746	2	7.37	864	20.9		
0752	4	7.32	860	20.4		
0759	7	7.25	871	20.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-3	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-4 Date Monitored: 10/14/11
Well Diameter 2
Total Depth 20.23 ft.
Depth to Water 5.66 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

14.57 xVF .17 = 2.47 x3 case volume = Estimated Purge Volume: 7.43 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.57

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

Sampling Equipment:
Disposable Bailer X
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): 0940 Weather Conditions: Clear
Sample Time/Date: 1025 / 10/14/11 Water Color: Grey Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 7.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
0950	2.5	7.64	791	22.3		
1000	5.0	7.39	806	22.6		
1009	7.5	7.25	834	22.7		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-4	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-5 Date Monitored: 10/14/11
Well Diameter 2
Total Depth 17.93 ft.
Depth to Water 4.51 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.

13.42 xVF .17 = 2.28 x3 case volume = Estimated Purge Volume: 6.84 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.19

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1045 Weather Conditions: Clear
Sample Time/Date: 1130 / 10/14/11 Water Color: Grey Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Light
Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 6.28

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature ((C) / F)	D.O. (mg/L)	ORP (mV)
1050	2	7.66	579	22.6		
1056	4.5	7.60	624	22.1		
1102	7.0	7.29	656	22.3		

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 (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

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: 10/14/11 (inclusive)
City: Alameda, CA Sampler: JH

Well ID MW-6 Date Monitored: 10/14/11
Well Diameter 2
Total Depth 20.09 ft.
Depth to Water 7.40 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.

12.69 xVF .17 = 2.14 x3 case volume = Estimated Purge Volume: 6.44 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.92

Purge Equipment:

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

Sampling Equipment:

Disposable Bailer	X
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): 1155 Weather Conditions: Clear
Sample Time/Date: 1240 / 10/14/11 Water Color: Grey Odor: Y (N) Lights
Approx. Flow Rate: — gpm. Sediment Description: Lights
Did well de-water? N If yes, Time: Volume: gal. DTW @ Sampling: 8.67

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1201	2	7.62	962	23.6		
1207	4	7.54	950	23.2		
1214	6.5	7.35	939	23.1		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW-6	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO (8015)
	2 x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN
	2 x 1 liter ambers	YES	NP	CHEVRON RTC	CHEVRON PFI STUDY SAMPLES

COMMENTS:

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

Chevron California Region Analysis Request/Chain of Custody

Lancaster Laboratories

101711-03

For Lancaster Laboratories use only

Acct. #: ______ Sample # ______ Group #: 008172

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

~~SS#206127 OML G-R#386408 Global ID#T06019744728~~

Facility #: ~~2301-2337 BLANDING AVENUE, ALAMEDA, CA~~

Site Address: ~~MB CRASB Silva~~

Chevron PM: ~~G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568~~ Lead Consultant:

Consultant/Office: ~~Deanna L. Harding (deanna@grinc.com)~~

Consultant Prj. Mgr.: ~~925-551-7555 925-551-7899~~

Consultant Phone #: ______ Fax #: ______

Sampler: J. Hezzaro

Analyses Requested / **Preservation Codes**: H, H

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 / TPH-DRO (8015)	Oxygenates	Total Lead Method	Dissolved Lead Method					
QA	10/11/11		X			X		2	X	X										
MW-1RA	↓	1425	X			X		10	X	X	X	X								
MW-1RB		1240	X			X		10	X	X	X	X								
MW-2		0915	X			X		10	X	X	X	X								
MW-3		0810	X			X		10	X	X	X	X								
MW-4		1025	X			X		10	X	X	X	X								
MW-5		1130	X			X		10	X	X	X	X								
MW-6	↓	1240	X			X		10	X	X	X	X								

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

TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE

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) **EDF/EDD**

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

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/11/11	1700	GETTLER-RYAN FRIDGE	10-17-11	0720
[signature]	10-17-11	1315	[signature]	10/17/11	1315

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

November 01, 2011

Project: 206127

Submittal Date: 10/19/2011
Group Number: 1271976
PO Number: 0015074462
Release Number: BAUER
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LLI) #
QA-T-111014 NA Water	6441886
MW-1RA-W-111014 Grab Water	6441887
MW-1RB-W-111014 Grab Water	6441888
MW-2-W-111014 Grab Water	6441889
MW-3-W-111014 Grab Water	6441890
MW-4-W-111014 Grab Water	6441891
MW-5-W-111014 Grab Water	6441892
MW-6-W-111014 Grab Water	6441893

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

Lancaster Laboratories

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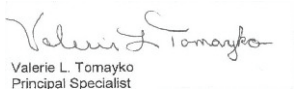
Analysis Report

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

Respectfully Submitted,



Valerie L. Tomayko
Principal Specialist

Lancaster Laboratories

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Analysis Report

Sample Description: QA-T-111014 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 QA

LLI Sample # WW 6441886
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

6127Q

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

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	D112932AA	10/20/2011 16:42	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112932AA	10/20/2011 16:42	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/20/2011 22:48	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/20/2011 22:48	Marie D John	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-1RA-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1RA

LLI Sample # WW 6441887
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 14:35 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

1271A

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	1,300	25	50
10943	Ethylbenzene	100-41-4	51	3	5
10943	Toluene	108-88-3	19	3	5
10943	Xylene (Total)	1330-20-7	14	3	5
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	6,800	250	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	6,900	50	1
	The surrogate data is outside the QC limits due to unresolvable matrix problems evident in the sample chromatogram.				
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	360	50	1
	The reverse surrogate, capric acid, was present at 1%.				

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	F112942AA	10/21/2011 14:58	Nicholas R Rossi	5
10943	BTEX 8260B Water	SW-846 8260B	1	F112942AA	10/21/2011 15:19	Nicholas R Rossi	50
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F112942AA	10/21/2011 14:58	Nicholas R Rossi	5
01163	GC/MS VOA Water Prep	SW-846 5030B	2	F112942AA	10/21/2011 15:19	Nicholas R Rossi	50
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 06:06	Marie D John	5
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 06:06	Marie D John	5
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 16:34	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 20:19	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-1RB-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-1RB

LLI Sample # WW 6441888
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 13:40 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

1271B

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	15	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.	300	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	4,000	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	57	50	1

The reverse surrogate, capric acid, was present at 1%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	F112941AA	10/21/2011 14:47	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F112941AA	10/21/2011 14:47	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/20/2011 23:40	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/20/2011 23:40	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 14:56	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 20:35	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-2-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-2

LLI Sample # WW 6441889
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 09:15 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61272

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 Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	160	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, was present at 1%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	F112941AA	10/21/2011 15:52	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F112941AA	10/21/2011 15:52	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 00:05	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 00:05	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 15:12	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 20:52	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

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Analysis Report

Sample Description: MW-3-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-3

LLI Sample # WW 6441890
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 08:10 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61273

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.	88	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	1,800	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, was present at 1%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	D112932AA	10/20/2011 17:05	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112932AA	10/20/2011 17:05	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 00:31	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 00:31	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 15:29	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 21:09	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

Lancaster Laboratories

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Analysis Report

Sample Description: MW-4-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-4

LLI Sample # WW 6441891
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 10:25 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61274

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 Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	440	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, was present at 1%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	D112932AA	10/20/2011 17:28	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112932AA	10/20/2011 17:28	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 00:57	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 00:57	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 15:45	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 21:25	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

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Analysis Report

Sample Description: MW-5-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-5

LLI Sample # WW 6441892
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 11:30 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61275

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	76	0.5	1
10943	Ethylbenzene	100-41-4	1	0.5	1
10943	Toluene	108-88-3	5	0.5	1
10943	Xylene (Total)	1330-20-7	5	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,300	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	4,600	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	89	50	1

The reverse surrogate, capric acid, was present at 1%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	F112942AA	10/21/2011 15:41	Nicholas R Rossi	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F112942AA	10/21/2011 15:41	Nicholas R Rossi	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 01:23	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 01:23	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 16:01	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 21:42	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

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Analysis Report

Sample Description: MW-6-W-111014 Grab Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728 MW-6

LLI Sample # WW 6441893
LLI Group # 1271976
Account # 10904

Project Name: 206127

Collected: 10/14/2011 12:40 by JH

Submitted: 10/19/2011 08:20
Reported: 11/01/2011 20:54

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

61276

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	10	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.	510	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	1,700	50	1
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, was present at 0%.

The recovery for a target analyte and surrogate in the Laboratory Control Spikes is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

The recovery for the method blank surrogate and sample surrogate is outside the QC acceptance limits as noted on the QC Summary. The client was contacted and the data reported.

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	D112932AA	10/20/2011 17:51	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D112932AA	10/20/2011 17:51	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	11293A07A	10/21/2011 01:49	Marie D John	1
01146	GC VOA Water Prep	SW-846 5030B	1	11293A07A	10/21/2011 01:49	Marie D John	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	112920024A	10/22/2011 16:18	Anita M Dale	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	112920020A	10/28/2011 21:59	Michele D Hamilton	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	112920020A	10/20/2011 09:45	Cynthia J Salvatori	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	112920024A	10/20/2011 09:45	Catherine R Wiker	1

Lancaster Laboratories

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Analysis Report

Quality Control Summary

Client Name: Chevron Group Number: 1271976
Reported: 11/01/11 at 08:54 PM

Matrix QC may not be reported if insufficient sample or 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.

All Inorganic Initial Calibration and Continuing Calibration Blanks met acceptable method criteria unless otherwise noted on the Analysis Report.

Laboratory Compliance Quality Control

Analysis Name	Blank Result	Blank MDL	Report Units	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
Batch number: D112932AA	Sample number(s): 6441886,6441890-6441891,6441893							
Benzene	N.D.	0.5	ug/l	99		79-120		
Ethylbenzene	N.D.	0.5	ug/l	87		79-120		
Toluene	N.D.	0.5	ug/l	89		79-120		
Xylene (Total)	N.D.	0.5	ug/l	87		80-120		
Batch number: F112941AA	Sample number(s): 6441888-6441889							
Benzene	N.D.	0.5	ug/l	90		79-120		
Ethylbenzene	N.D.	0.5	ug/l	91		79-120		
Toluene	N.D.	0.5	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	ug/l	86		80-120		
Batch number: F112942AA	Sample number(s): 6441887,6441892							
Benzene	N.D.	0.5	ug/l	89		79-120		
Ethylbenzene	N.D.	0.5	ug/l	92		79-120		
Toluene	N.D.	0.5	ug/l	91		79-120		
Xylene (Total)	N.D.	0.5	ug/l	87		80-120		
Batch number: 11293A07A	Sample number(s): 6441886-6441893							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	100	109	75-135	9	30
Batch number: 112920020A	Sample number(s): 6441887-6441893							
TPH-DRO water C10-C28 w/Si Gel	N.D.	32.	ug/l	34*	28*	56-122	20	20
Batch number: 112920024A	Sample number(s): 6441887-6441893							
TPH-DRO water C10-C28	N.D.	32.	ug/l	100	96	56-122	4	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: D112932AA	Sample number(s): 6441886,6441890-6441891,6441893 UNSPK: P442152								
Benzene	94	105	80-126	11	30				
Ethylbenzene	83	95	71-134	14	30				
Toluene	84	96	80-125	13	30				
Xylene (Total)	83	94	79-125	13	30				
Batch number: F112941AA	Sample number(s): 6441888-6441889 UNSPK: 6441888								
Benzene	100	99	80-126	1	30				

*- 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: 1271976
Reported: 11/01/11 at 08:54 PM

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
Ethylbenzene	93	95	71-134	2	30				
Toluene	96	96	80-125	0	30				
Xylene (Total)	86	87	79-125	2	30				
Batch number: F112942AA	Sample number(s): 6441887,6441892 UNSPK: P442488								
Benzene	95	95	80-126	0	30				
Ethylbenzene	99	99	71-134	1	30				
Toluene	99	97	80-125	1	30				
Xylene (Total)	93	92	79-125	1	30				

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: D112932AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6441886	106	99	94	93
6441890	105	101	92	99
6441891	105	100	92	94
6441893	106	100	93	99
Blank	107	104	94	93
LCS	103	105	93	100
MS	105	101	92	100
MSD	102	103	92	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F112941AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6441888	94	99	103	101
6441889	97	99	103	96
Blank	95	97	104	96
LCS	95	100	104	100
MS	95	100	104	102
MSD	95	100	102	105
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F112942AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
6441887	95	97	104	100
6441892	96	98	103	99
Blank	96	100	104	96

*- 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: 1271976
Reported: 11/01/11 at 08:54 PM

Surrogate Quality Control

LCS	96	98	102	99
MS	96	100	103	101
MSD	95	98	103	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 11293A07A

	Trifluorotoluene-F
6441886	95
6441887	115
6441888	104
6441889	97
6441890	96
6441891	94
6441892	121
6441893	108
Blank	94
LCS	107
LCSD	107
Limits:	63-135

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 112920020A

	Orthoterphenyl
6441887	18*
6441888	23*
6441889	24*
6441890	31*
6441891	20*
6441892	23*
6441893	14*
Blank	21*
LCS	21*
LCSD	24*
Limits:	54-127

Analysis Name: TPH-DRO water C10-C28
Batch number: 112920024A

	Orthoterphenyl
6441887	173*
6441888	127
6441889	113
6441890	115
6441891	115
6441892	125
6441893	122
Blank	115
LCS	113
LCSD	110
Limits:	54-127

*- 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: 1271976
Reported: 11/01/11 at 08:54 PM

Surrogate Quality Control

*- 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 101711-03

For Lancaster Laboratories use only

Acct. #: 10904 Sample # 6441886-93 Group #: 008172

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

1271976

Facility #: SS#206127-OML G-R#386498 Global ID#T0600197447 28 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Site Address: MB CRASB Silva

Chevron PM: G-R, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568 Lead Consultant:

Consultant/Office: Deanna L. Harding (deanna@grinc.com)

Consultant Prj. Mgr.:

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

Sampler: Jim Herrin

Sample Identification	Date Collected	Time Collected	Grab	Composite	Matrix: Soil	Matrix: Water	Matrix: Oil	Matrix: Air	Total Number of Containers	BTEX + 8260 ☒ 8021 ☐	TPH 8015 MOD GRO	TPH 8015 MOD DRO ☒ Silica Gel Cleanup	TPH-DRO (Foris)	Oxygenates ___	Total Lead Method ___	Dissolved Lead Method ___
QA	10/14/11		X			X			2	X	X					
MW-1RA		1435	X			X			10	X	X	X	X			
MW-1RB		1340	X			X			10	X	X	X	X			
MW-2		0915	X			X			10	X	X	X	X			
MW-3		0810	X			X			10	X	X	X	X			
MW-4		1025	X			X			10	X	X	X	X			
MW-5		1130	X			X			10	X	X	X	X			
MW-6		1240	X			X			10	X	X	X	X			

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

TPH-DRO WITH SILICA GEL REQUESTING 10 GRAM COLUMN CLEAN-UP WITH CAPRIC ACID REVERSE SURROGATE

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:	10/14/11	1700	Received by: GETTLER-RYAN FRIDGE	10-17-11	0730
Relinquished by:	10-17-11	1315	Received by:	10/17/11	1315
Relinquished by:	17OCT11	1635	Received by: FEDEX	10/19/11	
Relinquished by Commercial Carrier: UPS FedEx Other	10/19/11		Received by:	10/19/11	0820
Temperature Upon Receipt 1.0-4.9 C°			Custody Seals Intact? Yes No		

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