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Marketing Business Unit

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September 12, 2013

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 206127)
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 *Second Semi-Annual 2013 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

September 12, 2013 Reference No. 631916

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

Re: Second Semi-Annual 2013
Groundwater Monitoring and Sampling Report
Former Signal Oil Marine Storage and Distribution Facility
(Chevron Bulk Plant 206127)
2301-2311 Blanding Avenue
Alameda, California
ACEH Case RO0002466

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) is submitting this *Second Semi-Annual 2013 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 *Groundwater Monitoring and Sampling Data Package* is included as Attachment A. Current groundwater monitoring and sampling data are presented in Table 1 and shown on Figures 2 through 5. Well construction specifications are summarized in Table 2. Eurofins Lancaster Laboratories' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

RESULTS OF SECOND SEMI-ANNUAL 2013 EVENT

On July 15, 2013, G-R monitored and sampled site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction North
- Hydraulic Gradient 0.01
- Approximate Depth to Water 4 to 8 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	**4,200/630**	**3,700**	**430**	8	5	2
MW-1RB	**2,000**/<50	**230**	<0.5	<0.5	<0.5	<0.5
MW-2	**150**/<50	<50	<0.5	<0.5	<0.5	<0.5
MW-3	**1,500**/<50	**110**	<0.5	<0.5	<0.5	<0.5
MW-4	**530**/<50	<50	<0.5	<0.5	<0.5	<0.5
MW-5	**3,800/850**	**3,900**	**130**	8	2	11
MW-6	**2,400**/<50	**660**	**13**	<0.5	<0.5	<0.5

ESL Environmental screening level
[1] TPHd without and with 10 gram silica gel cleanup
Bold Concentrations exceed their respective ESL

CONCLUSIONS AND RECOMMENDATIONS

Results of this current semi-annual monitoring and sampling are consistent with results from past quarters and indicate the following:

- The highest total petroleum hydrocarbons as diesel (TPHd), TPH as gasoline (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 as compared to samples analyzed without the silica gel cleanup. Only the samples from MW-1RA and MW-5 were above the TPHd ESL using silica gel cleanup.
- Concentrations are generally stable in site wells where concentrations are detected above groundwater ESLs.

CRA recommends continuing monitoring and sampling to verify concentration trends over time.

ANTICIPATED FUTURE ACTIVITIES

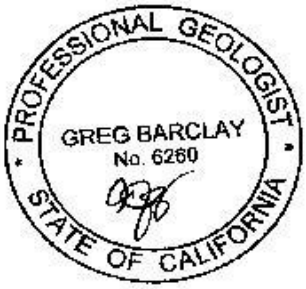
Groundwater Monitoring
G-R will monitor and sample site wells per the established semi-annual schedule. CRA will submit a groundwater monitoring and sampling report.

Piezometer Installation and Tidal Influence Study
CRA is currently awaiting ACEH comment on the November 30, 2012 *Piezometer Well Installation and Tidal Influence Study*, including a response to our request to suspend monitoring and sampling at the site.

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

Sincerely,

CONESTOGA-ROVERS & ASSOCIATES



Brian Silva

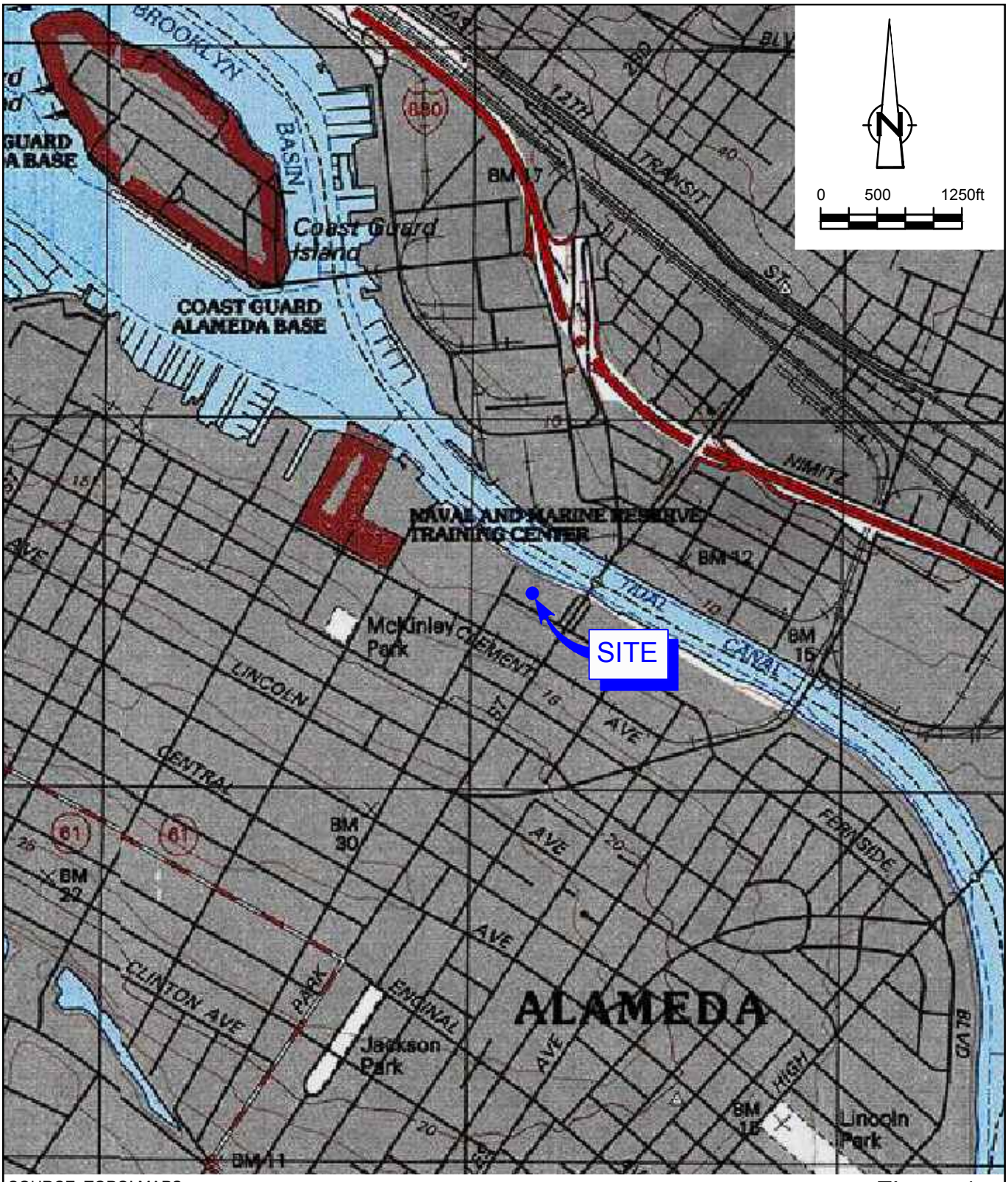
Greg Barclay, PG 6260

BS/cw/31
Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation Contour Map
Figure 3	TPHd Concentration Contour Map
Figure 4	TPHg Concentration Contour Map
Figure 5	Benzene Concentration Contour Map
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

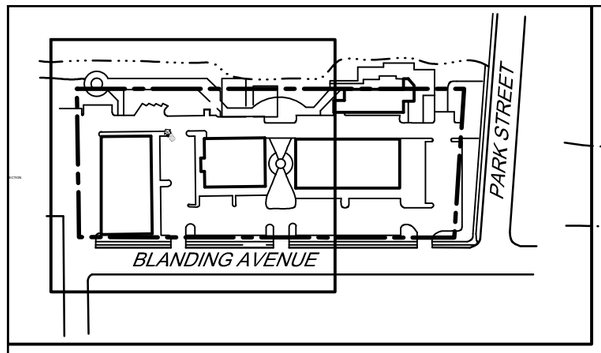


SOURCE: TOPO! MAPS.

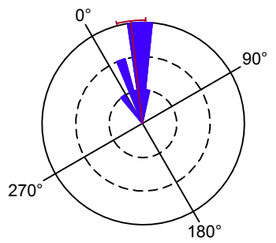
Figure 1

VICINITY MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California

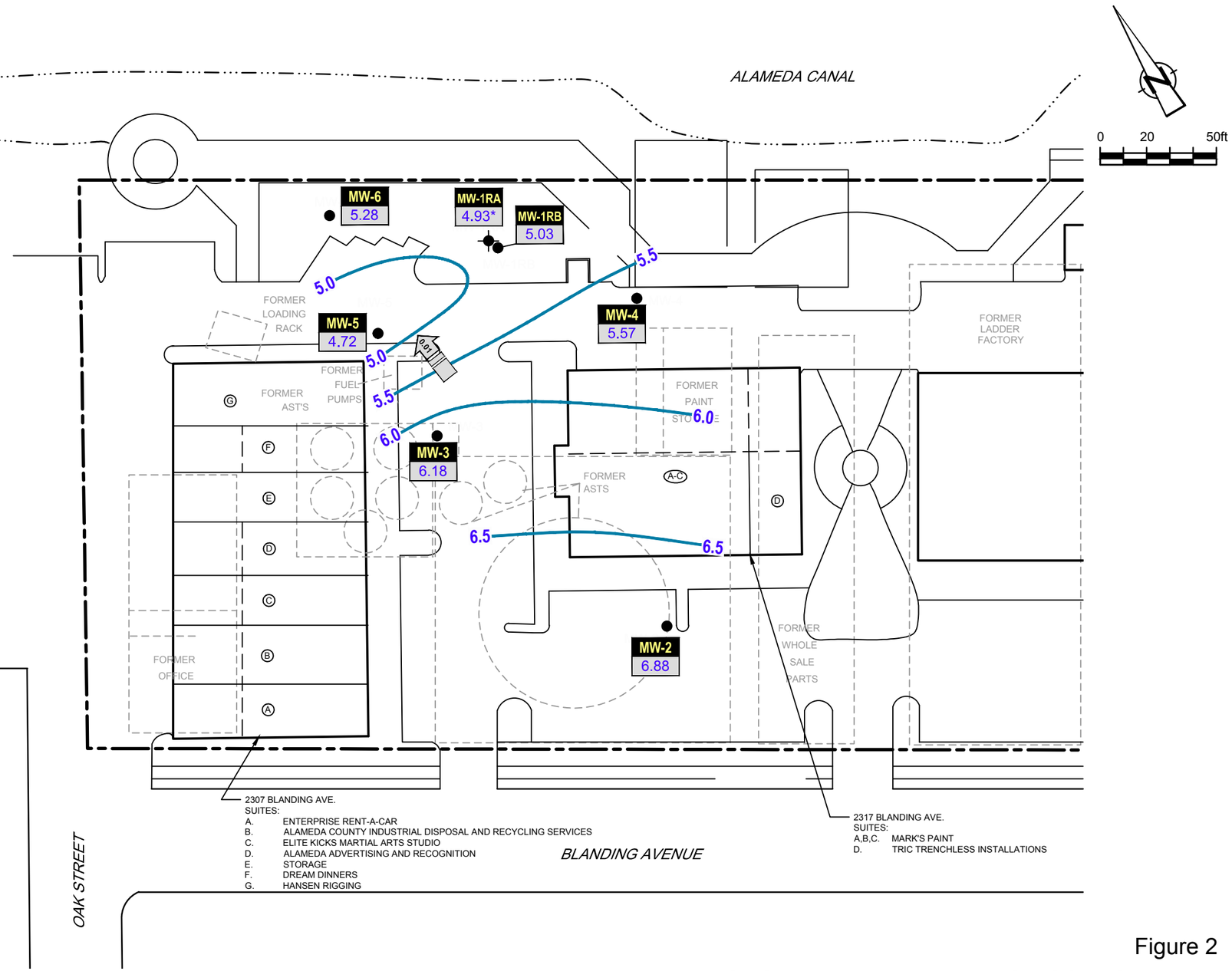
631916-95(031)GN-BR001 AUG 13/2013



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2013



LEGEND

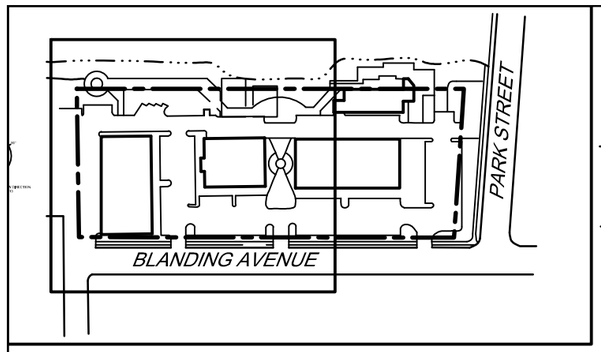
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 6.0 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (MSL), DASHED WHERE INFERRED
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL / ELEV —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

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.

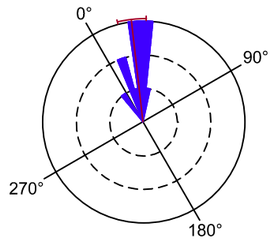
Figure 2

GROUNDWATER ELEVATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 15, 2013

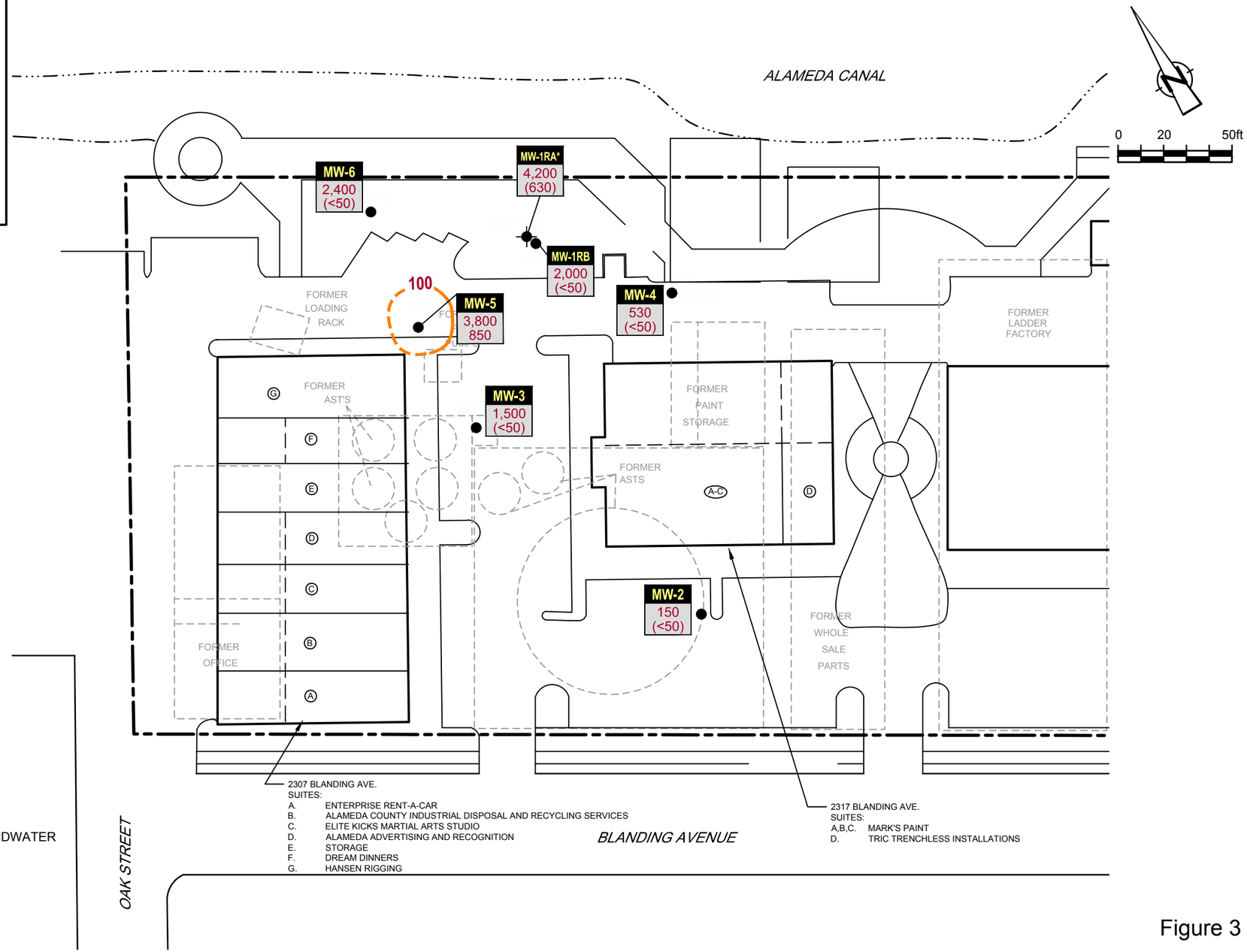
631916-95(031)GN-BR002 AUG 13/2013



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2013



LEGEND

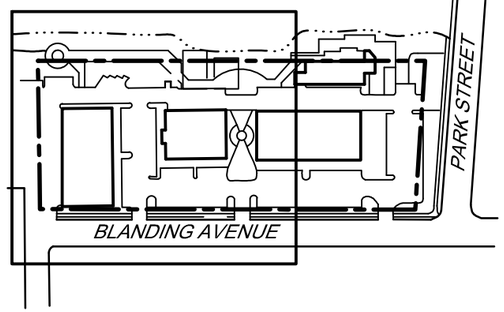
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 — TPHd CONCENTRATION USING SILICA GEL CLEAN UP CONTOUR LINE, DASHED WHERE INFERRED
- WELL DESIGNATION
- WELL / TPHd (TPHd) — TPHd CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L); TPHd WITH SILICA GEL CONCENTRATION IN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

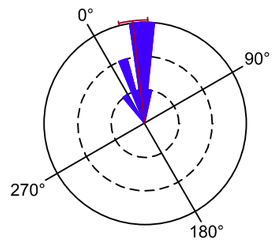
Figure 3

TPHd CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 15, 2013

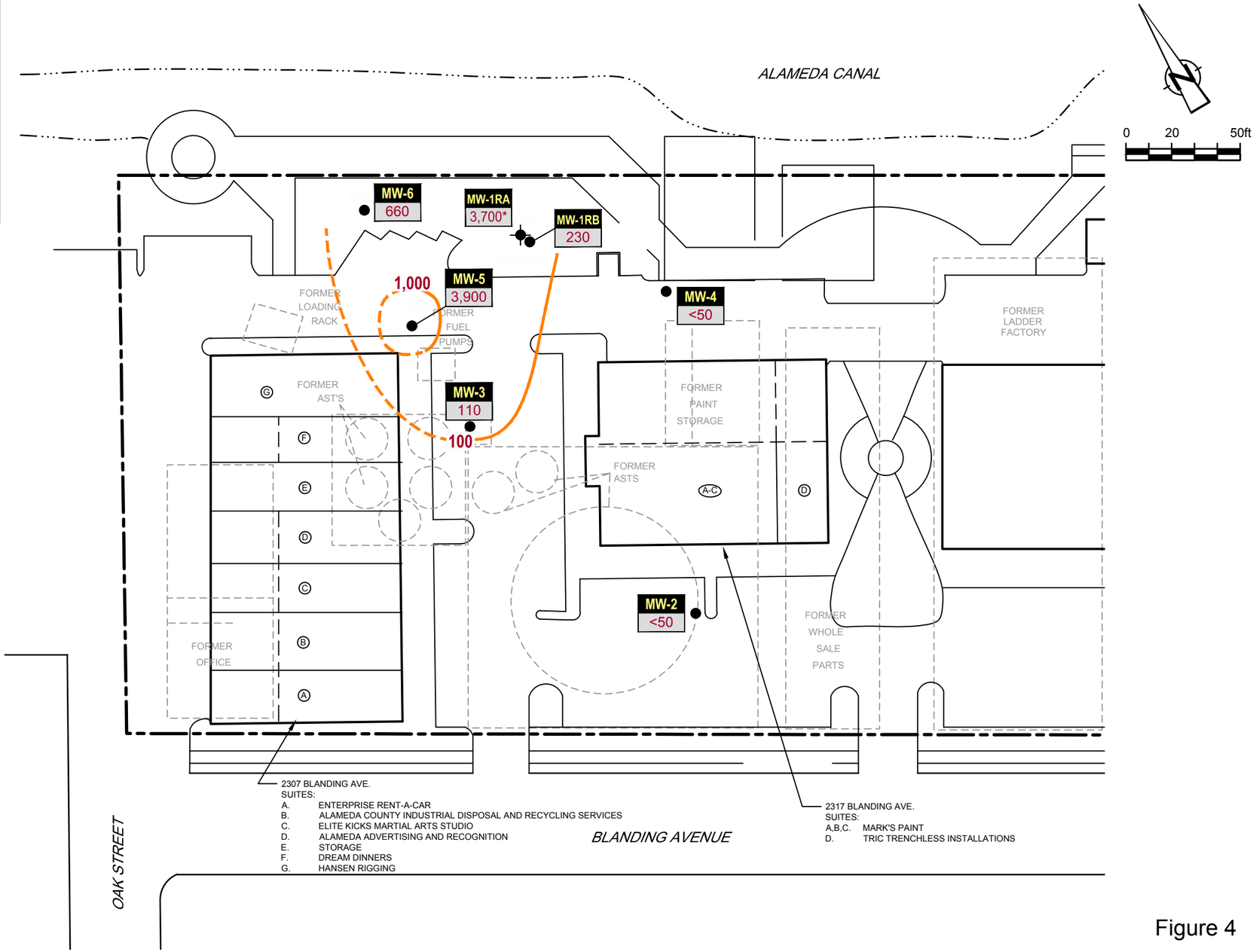
631916-95(031)GN-BR003 AUG 13/2013



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2013



LEGEND

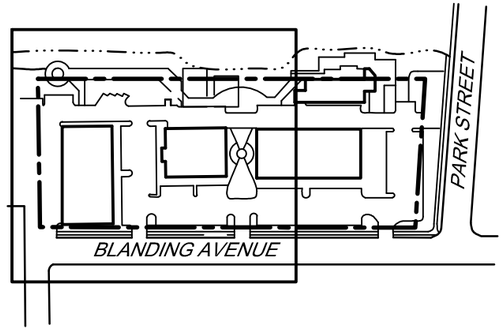
- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 100 — TPHg CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL / TPHg — WELL DESIGNATION; TPHg CONCENTRATION IN GROUNDWATER IN MICROGRAMS PER LITER (µg/L)
- * — NOT USED IN CONTOURING; CONSTRUCTED IN SHALLOW SAND ZONE
- SITE FEATURES 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.

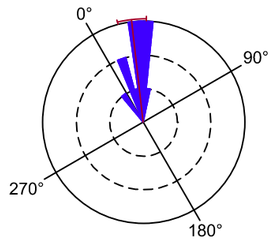
Figure 4

TPHg CONCENTRATION CONTOUR MAP
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY (CHEVRON FACILITY 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 15, 2013

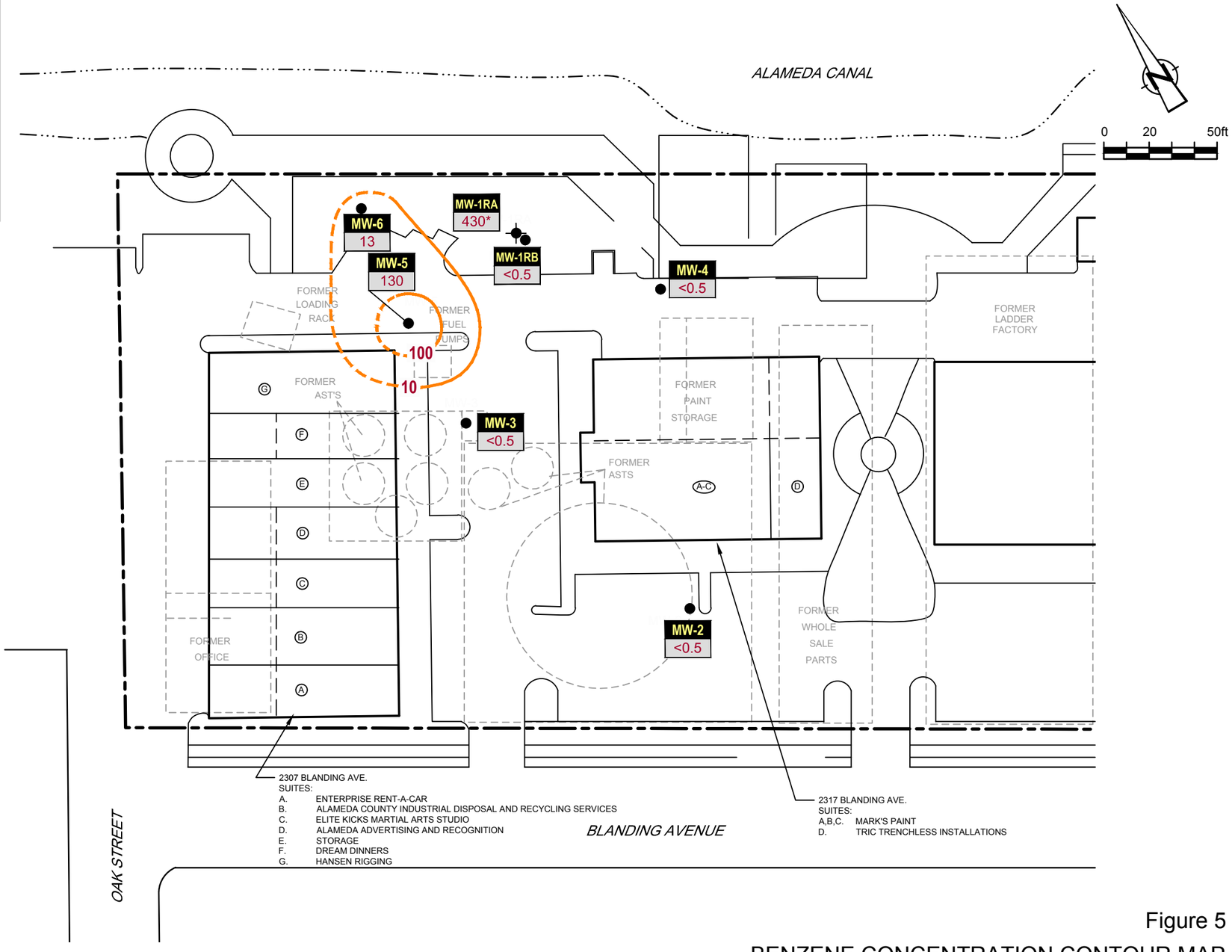
631916-95(031)GN-BR004 AUG 13/2013



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
FROM 2Q 2009 TO 3Q 2013



LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- 10 — BENZENE CONCENTRATION CONTOUR LINE, DASHED WHERE INFERRED
- WELL / BENZ — WELL DESIGNATION; 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 206127)
2301-2311 BLANDING AVENUE
Alameda, California
July 15, 2013

631916-95(031)GN-BR005 AUG 13/2013

TABLES

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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-1RA	01/18/2012	13.02	7.34	5.68	4,300	1,400	6,400	1,300	17	38	12	-
MW-1RA	04/19/2012	13.02	5.23	7.79	3,700	400	3,100	120	<5	<5	<5	-
MW-1RA	07/23/2012	13.02	7.92	5.10	6,000	1,000	-	-	-	-	-	-
MW-1RA	07/27/2012[4]	13.02	8.50	4.52	-	-	4,800	640	9	20	7	-
MW-1RA	01/19/2013	13.02	7.30	5.72	3,000	270	1,500	180	<5	<5	<5	-
MW-1RA	**07/15/2013**	**13.02**	**8.09**	**4.93**	**4,200**	**630**	**3,700**	**430**	**8**	**5**	**2**	**-**
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-1RB	01/18/2012	13.21	14.71	-1.50	2,400	260	340	11	<0.5	<0.5	<0.5	-
MW-1RB	04/19/2012	13.21	8.33	4.88	2,800	53	180	1	<0.5	<0.5	<0.5	-
MW-1RB	07/23/2012	13.21	8.96	4.25	2,700	<50	-	-	-	-	-	-
MW-1RB	07/27/2012[4]	13.21	8.45	4.76	-	-	990	89	1	0.8	0.7	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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-1RB	01/19/2013	13.21	8.65	4.56	2,000	62	200	2	<0.5	<0.5	<0.5	-
MW-1RB	**07/15/2013**	**13.21**	**8.18**	**5.03**	**2,000**	**<50**	**230**	**<0.5**	**<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-2	01/18/2012	10.63	3.85	6.78	140	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	04/19/2012	10.63	3.16	7.47	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	07/23/2012[3]	10.63	-	-	-	-	-	-	-	-	-	-
MW-2	07/27/2012	10.63	3.40	7.23	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	01/19/2013	10.63	3.45	7.18	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	**07/15/2013**	**10.63**	**3.75**	**6.88**	**150**	**<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	-
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	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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	01/18/2012	10.72	5.22	5.50	1,700	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	04/19/2012	10.72	4.63	6.09	3,000	50	260	<0.5	<0.5	<0.5	<0.5	-
MW-3	07/23/2012	10.72	4.89	5.83	1,200	<50	-	-	-	-	-	-
MW-3	07/27/2012[4]	10.72	4.58	6.14	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	01/19/2013	10.72	4.52	6.20	1,600	<50	69	<0.5	<0.5	<0.5	<0.5	-
MW-3	**07/15/2013[5]**	**10.72**	**4.54**	**6.18**	**1,500**	**<50**	**110**	**<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-4	01/18/2012	11.40	8.36	3.04	330	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	04/19/2012	11.40	6.40	5.00	360	<50	<50	<0.5	0.5	<0.5	<0.5	-
MW-4	07/23/2012[3]	11.40	-	-	-	-	-	-	-	-	-	-
MW-4	07/27/2012	11.40	6.39	5.01	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/19/2013	11.40	6.78	4.62	380	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	**07/15/2013**	**11.40**	**5.83**	**5.57**	**530**	**<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	-	-	-	-	-	-	-	-

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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-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-5	01/18/2012	10.50	5.98	4.52	3,700	460	3,500	140	7	2	10	-
MW-5	04/19/2012	10.50	5.40	5.10	3,600	310	2,000	87	5	1	5	-
MW-5	07/23/2012	10.50	5.29	5.21	4,300	380	-	-	-	-	-	-
MW-5	07/27/2012[4]	10.50	5.08	5.42	-	-	1,800	48	3	0.7	4	-
MW-5	01/19/2013	10.50	5.38	5.12	4,200	400	3,500	100	7	<5	7	-
MW-5	**07/15/2013**	**10.50**	**5.78**	**4.72**	**3,800**	**850**	**3,900**	**130**	**8**	**2**	**11**	**-**
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	-
MW-6	01/18/2012	12.98	9.82	3.16	1,300	<50	300	7	<0.5	<0.5	<0.5	-
MW-6	04/19/2012	12.98	8.02	4.96	1,600	<50	290	7	0.6	<0.5	<0.5	-
MW-6	07/23/2012	12.98	9.69	3.29	1,600	73	-	-	-	-	-	-
MW-6	07/27/2012[4]	12.98	8.39	4.59	-	-	450	9	<0.5	<0.5	0.6	-
MW-6	01/19/2013	12.98	8.92	4.06	830	<50	250	3	<0.5	<0.5	<0.5	-
MW-6	**07/15/2013**	**12.98**	**7.70**	**5.28**	**2,400**	**<50**	**660**	**13**	**<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 SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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	-
QA	01/18/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	04/19/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	07/23/2012	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/19/2013	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	**07/15/2013**	**-**	**-**	**-**	**-**	**-**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**

Abbreviations and Notes:

TOC = Top of casing

DTW = Depth to water

GWE = Groundwater elevation

(ft-amsl) = Feet above mean sea level

ft = Feet

µg/L = Micrograms per liter

TPH-DRO = Total petroleum hydrocarbons - diesel range organics

TPH-GRO = Total petroleum hydrocarbons - gasoline range organics

B = Benzene

T = Toluene

E = Ethylbenzene

TABLE 1

GROUNDWATER MONITORING AND SAMPLING DATA
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
CHEVRON BULK PLANT 206127
2301-2311 BLANDING AVENUE
ALAMEDA, CALIFORNIA

					HYDROCARBONS			*PRIMARY VOCS*				
Location	Date	*TOC*	*DTW*	*GWE*	*TPH-DRO*	*TPH-DRO w/ Si Ge*	*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*

X = Xylenes (Total)

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

3 Inaccessible.

4 Due to laboratory error, a second set of samples had to be collected for TPHg and BTEX on 7/27/12 for wells MW1RA, MW1RB, MW-3, MW-5 and MW-6.

5 No purge sample collected due to limited access.

TABLE 2

WELL CONSTRUCTION SPECIFICATIONS
FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON BULK PLANT 206127)
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

July 23, 2013
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 **Second Semi-Annual Event of July 15, 2013**

COMMENTS:

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

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

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

trans/206127

WELL CONDITION STATUS SHEET

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

Job #: **386498**
Event Date: 7-15-13
Sampler: AW

WELL ID	Vault Frame Condition	Gasket/O-Ring (M) Missing (R) Replaced	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 Y / N
MW-4	OK	→	→	→	→	→	→	N	N	Emco/12"/2	N
MW-1RA	OK	→	→	→	→	→	→	↓	↓	Morrison/8"/2	↓
MW-1RB	OK	→	→	→	→	→	→	↓	↓	↓	↓
MW-6	OK	→	1M	2B	OK	→	→	↓	↓	↓	↓
MW-5	OK	→	→	→	→	→	→	↓	↓	Emco/12"/2	↓
MW-2	OK	→	→	→	→	→	→	↓	↓	↓	↓
MW-3	OK	→	→	→	→	→	→	↓	↓	↓	Y

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 Clean Harbors Environmental Services to Seaport Environmental located in Redwood City, California.

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-15-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-1RA Date Monitored: 7-15-13
Well Diameter 2
Total Depth 12.67 ft.
Depth to Water 8.09 ft.

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

☐ Check if water column is less then 0.50 ft.

4.58 xVF .17 = 0.77 x3 case volume = Estimated Purge Volume: 2.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.00

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): 0640 Weather Conditions: Cloudy
Sample Time/Date: 0705 / 7-15-13 Water Color: Cloudy Odor: Y / N Slight
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 9.00

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - MS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0643	0.75	7.69	6.26	16.1		
0646	1.5	7.52	6.07	16.2		
0650	2.5	7.48	5.99	16.4		

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-15-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-1RB Date Monitored: 7-15-13
Well Diameter 2
Total Depth 19.92 ft.
Depth to Water 8.18 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

11.74 xVF .17 = 1.99 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.52

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): 0715 Weather Conditions: Cloudy
Sample Time/Date: 0745 / 7-15-13 Water Color: Cloudy Odor: Y (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 10.19

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0720	2.0	8.86	6.35	16.3		
0725	4.0	8.91	6.28	16.6		
0730	6.0	8.92	6.22	16.8		

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-15-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW-2 Date Monitored: 7-15-13
Well Diameter 2
Total Depth 15.58 ft.
Depth to Water 3.75 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

11.83 xVF .17 = 2.01 x3 case volume = Estimated Purge Volume: 6.0 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 / Absorbant Sock (circle one)
Amt Removed from Skimmer: gal
Amt Removed from Well: gal
Water Removed:

Start Time (purge): 0925 Weather Conditions: Cloudy
Sample Time/Date: 0955 / 7-15-13 Water Color: Cloudy Odor: Y / (N)
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 5.88

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0930	2.0	9.06	0.52	18.7		
0935	4.0	8.78	0.59	19.0		
0940	6.0	8.65	0.63	19.2		

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: **Chevron #206127** Job Number: **386498**

Site Address: **2301-2337 Blanding Avenue** Event Date: 7-15-13 (inclusive)

City: **Alameda, CA** Sampler: AW

Well ID **MW-3** Date Monitored: 7-15-13

Well Diameter **2**

Total Depth 17.86 ft.

Depth to Water 4.54 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.

13.32 xVF — = — x3 case volume = Estimated Purge Volume: — gal.

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

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): —
Sample Time/Date: 1015 / 7-15-13
Approx. Flow Rate: — gpm.
Did well de-water? — If yes, Time: — Volume: — gal.

Weather Conditions: Cloudy
Water Color: Clear Odor: Y / (N)
Sediment Description: Clear
DTW @ Sampling: 4.54

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS: Well parked over, was able to access from under truck. No purge sample taken.

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-15-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW- 4 Date Monitored: 7-15-13
Well Diameter 2
Total Depth 20.17 ft.
Depth to Water 5.83 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.

14.34 xVF .17 = 2.43 x3 case volume = Estimated Purge Volume: 7.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 8.69

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): 0600 Weather Conditions: Cloudy / Dawn
Sample Time/Date: 0630 / 7-15-13 Water Color: Clear Odor: Y (N) /
Approx. Flow Rate: — gpm. Sediment Description: / Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 8.13

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - MS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0605	2.5	8.41	0.70	17.8		
0610	5.0	8.33	0.62	17.9		
0615	7.5	8.22	0.59	18.2		

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 7-15-13 (inclusive)
City: Alameda, CA Sampler: AW

Well ID MW- 5 Date Monitored: 7-15-13
Well Diameter 2
Total Depth 17.90 ft.
Depth to Water 5.78 ft. ☐ Check if water column is less then 0.50 ft.
12.12 xVF .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]: 8.20

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

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): 0840 Weather Conditions: Cloudy
Sample Time/Date: 0910 / 7-15-13 Water Color: Cloudy Odor: Y / N moderate
Approx. Flow Rate: — gpm. Sediment Description: Cloudy
Did well de-water? N If yes, Time: — Volume: — gal. DTW @ Sampling: 7.75

Time (2400 hr.)	Volume (gal.)	pH	Conductivity MS (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0845	2.5	6.21	1.54	17.3		
0850	4.5	8.17	1.63	17.8		
0855	6.5	8.11	1.75	18.2		

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
MW- 5	6 x voa vial	YES	HCL	LANCASTER	TPH-GRO(8015)/BTEX(8260)
	2x 1 liter ambers	YES	NP	LANCASTER	TPH-DRO w/sgc COLUMN/TPH-DRO (8015)

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING
FIELD DATA SHEET

Client/Facility#: Chevron #206127 | Job Number: 386498
Site Address: 2301-2337 Blanding Avenue | Event Date: 7-15-13 (inclusive)
City: Alameda, CA | Sampler: AW

Well ID: MW- 6 | Date Monitored: 7-15-13
Well Diameter: 2
Total Depth: 20.02 ft.
Depth to Water: 7.70 ft. ☐ Check if water column is less then 0.50 ft.

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

12.32 xVF .17 = 2.09 x3 case volume = Estimated Purge Volume: 6.5 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.16

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): 0800 | Weather Conditions: Cloudy
Sample Time/Date: 0830 / 7-15-13 | Water Color: Cloudy | Odor Y / N Slight
Approx. Flow Rate: — gpm. | Sediment Description: Cloudy
Did well de-water? N | If yes, Time: — | Volume: — gal. | DTW @ Sampling: 9.55

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µmhos/cm - µS)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0805	2.5	8.24	1.30	16.1		
0810	4.5	8.27	1.36	16.3		
0815	6.5	8.29	1.41	16.5		

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 w/sgc COLUMN/TPH-DRO (8015)

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 07513-01 IL

For Eurofins Lancaster Laboratories use only
Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

SCR #: _____

(1) Client Information

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

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

Site Address 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Chevron PM MB CRASB

Lead Consultant Silva

Consultant/Office Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180

Consultant Phone # (916) 889-8908 x

Sampler Alex Worg

(4) Matrix

Soil ☐ Sediment ☐ Water ☒ Ground ☐ Potable ☐ NPDES ☐ Surface ☐ Oil ☐ Air ☐

(3) Grab / Composite

(5) Analyses Requested

(2) Sample Identification	Soil Depth	Collected Date	Collected Time	Grab	Composite	Total Number of Containers	BTEX 8260	TPH-GRO 8260	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		7-15-13		X		2	X	X						
MW-1RA			0705	X		8	X	X	X	X				
MW-1RB			0745	X		8								
MW-2			0955	X		8								
MW-3			1015	X		8								
MW-4			0630	X		8								
MW-5			0910	X		8								
MW-6			0830	X		8								

- ☐ Results in Dry Weight
- ☐ 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

(6) Remarks

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

(7) Turnaround Time Requested (TAT) (please circle)

~~Standard~~ | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
[signature]	7-15-13	1115	[signature]	15JUL13	1115
Relinquished by	Date	Time	Received by	Date	Time

(8) Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDF/EDD

EDFFLAT (default)

Other: _____

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Received by | Date | Time

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

(9)

ATTACHMENT B

LABORATORY ANALYTICAL REPORT

ANALYTICAL RESULTS

Prepared by:

Eurofins Lancaster Laboratories Environmental
2425 New Holland Pike
Lancaster, PA 17601

Prepared for:

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

July 30, 2013

Project: 206127

Submittal Date: 07/16/2013
Group Number: 1404220
PO Number: 0015115966
Release Number: SHRILL HOPKINS
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-130715 NA Water	7127885
MW-1RA-W-130715 Grab Groundwater	7127886
MW-1RB-W-130715 Grab Groundwater	7127887
MW-2-W-130715 Grab Groundwater	7127888
MW-3-W-130715 Grab Groundwater	7127889
MW-4-W-130715 Grab Groundwater	7127890
MW-5-W-130715 Grab Groundwater	7127891
MW-6-W-130715 Grab Groundwater	7127892

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

Respectfully Submitted,

Jill M. Parker
Senior Specialist

(717) 556-7262

Sample Description: QA-T-130715 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127885
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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	D131992AA	07/18/2013 11:44	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 11:44	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 19:29	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 19:29	Marie D Beamenderfer	1

Sample Description: MW-1RA-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127886
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 07:05 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

271RA

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	430	5	10
10943	Ethylbenzene	100-41-4	5	0.5	1
10943	Toluene	108-88-3	8	0.5	1
10943	Xylene (Total)	1330-20-7	2	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,700	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	4,200	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	630	50	1

The reverse surrogate, capric acid, is present at <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	D131992AA	07/18/2013 18:14	Daniel H Heller	1
10943	BTEX 8260B Water	SW-846 8260B	1	D131992AA	07/18/2013 18:37	Daniel H Heller	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 18:14	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	2	D131992AA	07/18/2013 18:37	Daniel H Heller	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 21:35	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 21:35	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132030010A	07/23/2013 22:14	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132030011A	07/29/2013 14:43	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132030011A	07/22/2013 22:00	Elaine F Stoltzfus	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132030010A	07/22/2013 22:00	Elaine F Stoltzfus	1

Sample Description: MW-1RB-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127887
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 07:45 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

271RB

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.	230	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	2,000	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, is present at <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	D131992AA	07/18/2013 19:00	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 19:00	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 22:00	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 22:00	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 13:50	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 13:34	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Sample Description: MW-2-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127888
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 09:55 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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.	150	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, is present at <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	F131983AA	07/17/2013 18:41	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131983AA	07/17/2013 18:41	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 22:25	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 22:25	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 11:11	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 14:00	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Sample Description: MW-3-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127889
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 10:15 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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.	110	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	1,500	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at <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	F131983AA	07/17/2013 19:46	Brett W Kenyon	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	F131983AA	07/17/2013 19:46	Brett W Kenyon	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 22:51	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 22:51	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 16:59	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 14:22	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Sample Description: MW-4-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127890
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 06:30 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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.	530	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1
	The reverse surrogate, capric acid, is present at 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	D131992AA	07/18/2013 19:23	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 19:23	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/17/2013 23:41	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/17/2013 23:41	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 14:13	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 14:45	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Sample Description: MW-5-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127891
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 09:10 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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	130	0.5	1
10943	Ethylbenzene	100-41-4	2	0.5	1
10943	Toluene	108-88-3	8	0.5	1
10943	Xylene (Total)	1330-20-7	11	0.5	1
GC Volatiles	**SW-846 8015B**		**ug/l**	**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	3,900	250	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	3,800	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	850	50	1
	Due to the presence of fuel in the sample extract, capric acid recovery can not be determined.				

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	D131992AA	07/18/2013 19:46	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 19:46	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/18/2013 09:57	Marie D Beamenderfer	5
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/18/2013 09:57	Marie D Beamenderfer	5
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 17:22	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 15:08	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Sample Description: MW-6-W-130715 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 7127892
LL Group # 1404220
Account # 10904

Project Name: 206127

Collected: 07/15/2013 08:30 by AW

Submitted: 07/16/2013 09:45
Reported: 07/30/2013 14:27

Chevron
L4310
6001 Bollinger Canyon Rd.
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	13	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.	660	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	2,400	50	1
GC Petroleum Hydrocarbons w/Si	**SW-846 8015B**		**ug/l**	**ug/l**	
02216	TPH-DRO water C10-C28 w/Si Gel	n.a.	N.D.	50	1

The reverse surrogate, capric acid, is present at <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	D131992AA	07/18/2013 20:31	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D131992AA	07/18/2013 20:31	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	13198A94A	07/18/2013 00:07	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	13198A94A	07/18/2013 00:07	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	132000005A	07/22/2013 15:51	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	132000006A	07/25/2013 15:31	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	132000006A	07/19/2013 16:30	Seth A Farrier	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	132000005A	07/19/2013 16:30	Seth A Farrier	1

Quality Control Summary

Client Name: Chevron Group Number: 1404220
Reported: 07/30/13 at 02:27 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: D131992AA	Sample number(s): 7127885-7127887,7127890-7127892							
Benzene	N.D.	0.5	ug/l	100		77-121		
Ethylbenzene	N.D.	0.5	ug/l	98		79-120		
Toluene	N.D.	0.5	ug/l	100		79-120		
Xylene (Total)	N.D.	0.5	ug/l	95		77-120		
Batch number: F131983AA	Sample number(s): 7127888-7127889							
Benzene	N.D.	0.5	ug/l	91		77-121		
Ethylbenzene	N.D.	0.5	ug/l	86		79-120		
Toluene	N.D.	0.5	ug/l	86		79-120		
Xylene (Total)	N.D.	0.5	ug/l	89		77-120		
Batch number: 13198A94A	Sample number(s): 7127885-7127892							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	99	96	75-135	3	30
Batch number: 132000005A	Sample number(s): 7127887-7127892							
TPH-DRO water C10-C28	N.D.	32.	ug/l	103	107	73-120	4	20
Batch number: 132030010A	Sample number(s): 7127886							
TPH-DRO water C10-C28	N.D.	32.	ug/l	105	105	73-120	0	20
Batch number: 132000006A	Sample number(s): 7127887-7127892							
TPH-DRO water C10-C28 w/Si Gel	N.D.	32.	ug/l	98	108	43-120	9	20
Batch number: 132030011A	Sample number(s): 7127886							
TPH-DRO water C10-C28 w/Si Gel	N.D.	32.	ug/l	81	98	43-120	19	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: D131992AA	Sample number(s): 7127885-7127887,7127890-7127892 UNSPK: P128250								
Benzene	101	103	72-134	2	30				
Ethylbenzene	99	101	71-134	2	30				
Toluene	98	100	80-125	2	30				
Xylene (Total)	95	96	79-125	1	30				
Batch number: F131983AA	Sample number(s): 7127888-7127889 UNSPK: 7127888								

*- 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: 1404220
Reported: 07/30/13 at 02:27 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
Benzene	95	94	72-134	1	30				
Ethylbenzene	92	90	71-134	2	30				
Toluene	92	91	80-125	1	30				
Xylene (Total)	94	91	79-125	3	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: D131992AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7127885	101	96	98	102
7127886	100	99	99	111
7127887	101	98	99	109
7127890	102	98	98	102
7127891	102	99	98	110
7127892	101	101	98	108
Blank	102	100	96	101
LCS	101	100	98	104
MS	101	101	97	105
MSD	100	100	96	102
Limits:	80-116	77-113	80-113	78-113

Analysis Name: UST VOCs by 8260B - Water
Batch number: F131983AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7127888	101	101	100	97
7127889	100	100	102	101
Blank	102	97	98	95
LCS	101	99	99	97
MS	100	98	99	98
MSD	101	100	98	98
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 13198A94A

	Trifluorotoluene-F
7127885	72
7127886	266*
7127887	83
7127888	72
7127889	90

*- 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: 1404220
Reported: 07/30/13 at 02:27 PM

Surrogate Quality Control

7127890	72
7127891	100
7127892	95
Blank	73
LCS	88
LCSD	89

Limits: 63-135

Analysis Name: TPH-DRO water C10-C28
Batch number: 132000005A

Orthoterphenyl

7127887	107
7127888	97
7127889	112
7127890	93
7127891	109
7127892	86
Blank	101
LCS	113
LCSD	115

Limits: 46-131

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 132000006A

Orthoterphenyl

7127887	112
7127888	100
7127889	108
7127890	96
7127891	103
7127892	110
Blank	95
LCS	106
LCSD	117

Limits: 46-131

Analysis Name: TPH-DRO water C10-C28
Batch number: 132030010A

Orthoterphenyl

7127886	106
Blank	106
LCS	113
LCSD	115

Limits: 46-131

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 132030011A

Orthoterphenyl

*- 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: 1404220
Reported: 07/30/13 at 02:27 PM

Surrogate Quality Control

7127886	96
Blank	106
LCS	107
LCSD	114
Limits:	46-131

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

$71513-81 IL

Acct. # 10904

For Eurofins Lancaster Laboratories use only
Group # 1404220 Sample # 712885-92
Instructions on reverse side correspond with circled numbers.

SCR #: _____

(1) Please forward the lab results to the Consultant and cc: G-R.

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

Site Address 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Chevron PM MB | Lead Consultant CRASB | Silva

Consultant/Office Getter-Ryan, Inc., 6747 Sierra Court, Suite J, Dublin, CA 94568

Consultant Project Mgr. Deanna L. Harding, (deanna@grinc.com), (925) 551-7444 x180

Consultant Phone # (916) 889-8908 x

Sampler Alex Wong

(4) Matrix: Soil ☐ | Sediment ☐ | Ground ☒ | Potable ☐ | Surface ☐ | NPDES ☐ | Air ☐ | Oil ☐ | Water

(5) Analyses Requested

(6) Remarks

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

☐ Results in Dry Weight
☐ 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

(2) Sample Identification	Soil Depth	Collected Date	Collected Time	(3) Grab	Composite	Total Number of Containers	BTEX (8260 ☒ / 8021 ☐)	TPH-GRO (8260 ☐ / 8015 ☒)	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead	Dissolved Lead (Method)
QA		7-15-13		X		2	X	X						
MW-1RA			0705	X		8	X	X	X	X				
MW-1RB			0745	X		8	X	X	X	X				
MW-2			0955	X		8	X	X	X	X				
MW-3			1015	X		8	X	X	X	X				
MW-4			0630	X		8	X	X	X	X				
MW-5			0910	X		8	X	X	X	X				
MW-6		↓	0830	X		8	X	X	X	X				

(7) Turnaround Time Requested (TAT) (please circle)
Standard | 5 day | 4 day | 72 hour | 48 hour | 24 hour

Relinquished by	Date	Time	Received by	Date	Time
	7-15-13	1115	A. Galvez	15JUL13	1115
A. Galvez	15JUL13	1638	UPS		

(8) Data Package (circle if required)
Type I - Full
Type VI (Raw Data)

EDD (circle if required)
EDFLAT (default) EDF/EDD
Other: _____

Relinquished by Commercial Carrier: UPS X | FedEx ____ | Other ____

Received by Brandy Barclay 7-16-13 945

Temperature Upon Receipt 0.4-2.1 °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)
µg	microgram(s)	**mg**	milligram(s)
mL	milliliter(s)	**L**	liter(s)
m3	cubic meter(s)	**µL**	microliter(s)
		pg/L	picogram/liter

< 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

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 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.

Data Qualifiers:

C – result confirmed by reanalysis.

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

U.S. EPA CLP Data Qualifiers:

Organic Qualifiers		Inorganic Qualifiers	
A	TIC is a possible aldol-condensation product	**B**	Value is <CRDL, but ≥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.

Times are local to the area of activity. Parameters listed in the 40 CFR part 136 Table II as “analyze immediately” are not performed within 15 minutes.

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