Ted Moise
Project Manager
Marketing Business Unit

Chevron Environmental Management Company
6101 Bollinger Canyon Road
San Ramon, CA 94583
Office (925) 790-3398
TMoise@chevron.com

March 31, 2016

RECEIVED
By Alameda County Environmental Health 9:00 am, Apr 08, 2016

Ms. Dilan Roe
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)
2301-2337 Blanding Avenue
Alameda, California
LOP Case RO0002466

Dear Ms. Roe:

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 *First Semi-Annual Monitoring and Sampling Report* for the referenced facility, prepared on behalf of Chevron by GHD. I declare under penalty of perjury that the foregoing is true and correct.

Please feel free to contact me at (925) 790-3398 if you have any questions.

Sincerely,

Ted Moise
Project Manager

March 31, 2016 Reference No. 631916

Ms. Dilan Roe
Alameda County Environmental Health (ACEH)
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: First Semi-Annual 2016
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 Ms. Roe:

GHD Services Inc. (GHD) is submitting this *First Semi-Annual 2016 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 Figure 2. Well construction specifications are summarized in Table 2. Eurofins Lancaster Laboratory Environmental LLCs' *Analytical Results* report is included as Attachment B. Historical groundwater monitoring and sampling data are included as Attachment C.

1. Results of First Semi-Annual 2016 Event

On January 28, 2016, G-R monitored and sampled site wells per the established schedule. Results of the current monitoring event indicate the following:

- Groundwater Flow Direction — North-Northeast
- Hydraulic Gradient — 0.02
- Approximate Depth to Water — 3 to 9 feet below grade

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

GHD Services Inc.
10969 Trade Center Drive Suite 107 Rancho Cordova California 95670 USA
T 916 889 8900 **F** 916 889 8999 **W** www.ghd.com

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	**1,500** / 66 J	**210**	<0.5	<0.5	<0.5	<0.5
MW-1RB	**2,700** / 41 J	**<500**	**69**	<0.5	0.7 J	<0.5
MW-2	<50 / <32	<50	<0.5	<0.5	<0.5	<0.5
MW-3	**1,200** / <32	**100**	<0.5	<0.5	<0.5	<0.5
MW-4	**130** / <32	<50	<0.5	<0.5	<0.5	<0.5
MW-5	**2,100** / **470**	**4,100**	**85**	7 J	<5	7 J
MW-6	**750** / <31	**460**	**3**	<0.5	<0.5	<0.5

ESL Environmental Screening Level
J Estimated value
[1] TPHd without and with 10-gram silica gel cleanup
Bold Concentrations equal to or exceed their respective ESL

2. Conclusions and Recommendations

Results of this current semi-annual monitoring and sampling are consistent with results from past monitoring events 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 (Figure 2).
- Analysis of TPHd using a 10-gram silica gel column cleanup (SGC) resulted in a significant reduction in dissolved TPHd concentrations as compared to samples analyzed without SGC. Only the samples from MW-1RB and MW-5 were above the TPHd ESL using SGC. This suggests that samples not analyzed using SGC contain polar non-hydrocarbons and/or non-dissolved petroleum components.
- Hydrocarbons are generally stable in site wells where concentrations are detected above groundwater ESLs.

GHD recommends continuing monitoring and sampling to verify concentration trends over time. GHD is currently awaiting ACEH comment on the March 1, 2016 *Vapor Intrusion Assessment Work Plan and Response* report.

3. Anticipated Future Activities

Groundwater Monitoring

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

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

Sincerely,

GHD

Brian Silva

Greg Barclay, PG 6260

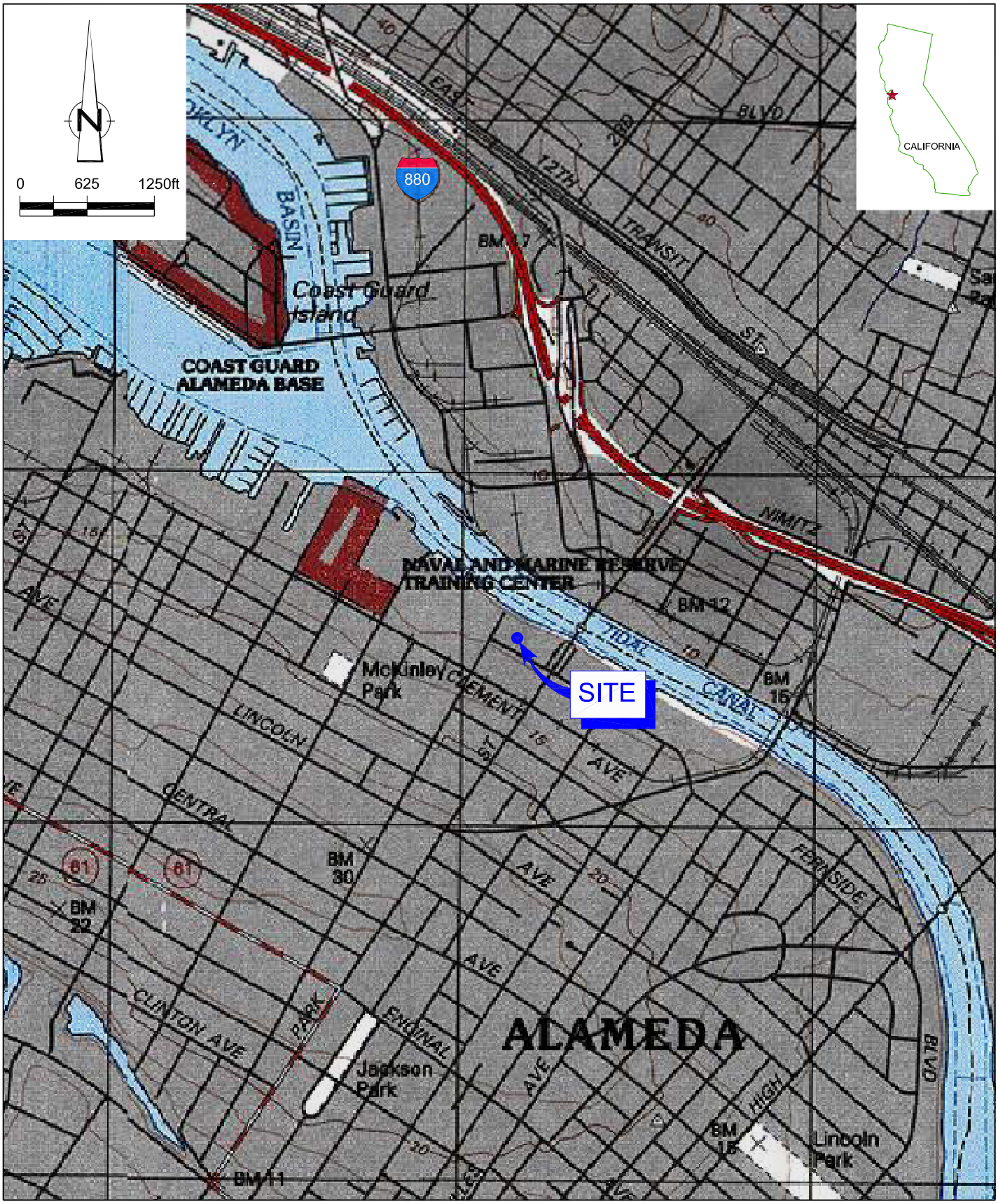
BS/mws/39

Encl.

Figure 1	Vicinity Map
Figure 2	Groundwater Elevation and Hydrocarbon Concentration Contour Map
Table 1	Groundwater Monitoring and Sampling Data
Table 2	Well Construction Specifications
Attachment A	Groundwater Monitoring and Sampling Data Package
Attachment B	Laboratory Analytical Report
Attachment C	Historical Groundwater Monitoring and Sampling Data

cc: Mr. Ted Moise, Chevron (electronic only)
Ms. Julie Beck Ball
Mr. Peter Reinhold Beck
Mr. Monroe Wingate
Ms. Amanda Monroe

Figures



SOURCE: TOPO MAPS

FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 2016127)
2301-2311 BLANDING AVENUE, ALAMEDA, CALIFORNIA

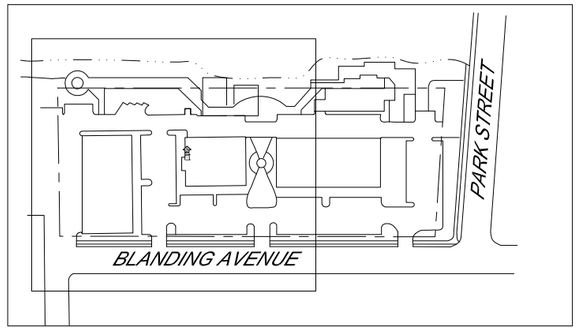
631916-95

Mar 1, 2016

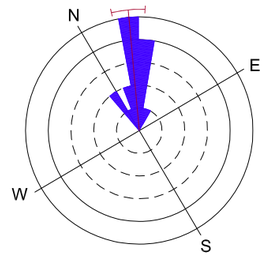
VICINITY MAP

FIGURE 1

CAD File: I:\Chevron\6319–\631916 20-6127 Alameda\631916-FIGURES\631916-RPTs\631916-RPT 038\631916-95(038)GN-EM001.dwg



KEY PLAN
SCALE: 1"=250'



HISTORICAL GROUNDWATER FLOW DIRECTION
(2Q 2009 - 1Q 2016)

LEGEND

- MONITORING WELL LOCATION
- SHALLOW ZONE MONITORING WELL LOCATION
- SITE FEATURES NOTED ON SANBORN FIRE INSURANCE MAP, DATED 1932
- 6.00 — GROUNDWATER ELEVATION CONTOUR, IN FEET ABOVE MEAN SEA LEVEL (FT MSL), DASHED WHERE INFERRED
- x.xx — GROUNDWATER FLOW DIRECTION AND GRADIENT (ft/ft)
- WELL — WELL DESIGNATION
  - ELEV — GROUNDWATER ELEVATION (FT MSL)
  - TPHd — TPHD CONCENTRATION (µg/L)
  - TPHd+ — TPHD with SILICA GEL CLEANUP CONCENTRATION (µg/L)
  - TPHg — TPHG CONCENTRATION (µg/L)
  - BENZ. — BENZENE CONCENTRATION (µg/L)
- * — WELL CONSTRUCTED IN SHALLOW SAND ZONE; NOT USED IN CONTOURING
- ^ — DATA ANOMALOUS; NOT USED IN CONTOURING
- J — ESTIMATED VALUE BETWEEN METHOD DETECTION LIMIT AND LABORATORY REPORTING LIMIT

ALAMEDA CANAL

MW-6: 4.19 / 750 / 31 / 460 / 3
MW-1RA: 4.35* / 1,500 / 66 J / 210 / <0.5
MW-1RB: 7.43^ / 2,700 / 41 J / <500 / 69
MW-4: 4.82 / 130 / <32 / <50 / <0.5
MW-5: 5.27 / 2,100 / 470 / 4,100 / 85
MW-3: 6.15 / 1,200 / <32 / 100 / <0.5
MW-2: 7.32 / <50 / <32 / <50 / <0.5

4.75 — 4.75
5.50 — 5.50
6.00 — 6.25
7.00 — 7.00

FORMER LOADING RACK
FORMER FUEL PUMPS
FORMER AST'S
FORMER PAINT STORAGE
FORMER ASTS
FORMER LADDER FACTORY
FORMER OFFICE
FORMER WHOLE SALE PARTS
0.02
G
F
E
D
C
B
A
A-C

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

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

BLANDING AVENUE
OAK STREET

0 25 50ft

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.

GHD

FORMER SIGNAL OIL MARINE STORAGE AND DISTRIBUTION FACILITY
(CHEVRON FACILITY 2016127)
2301-2311 BLANDING AVENUE, ALAMEDA, CALIFORNIA

GROUNDWATER ELEVATION CONTOUR AND HYDROCARBON CONCENTRATION MAP - JANUARY 28, 2016

631916-95
Mar 17, 2016

FIGURE 2

CAD File: I:\Chevron\6319--\631916 20-6127 Alameda\631916-FIGURES\631916-RPTs\631916-RPT 038\631916-95(038)GN-EM002.dwg

Table

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 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-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-1RA	01/09/2014	13.02	7.05	5.97	3,300	150	910	130	2	3	4	-
MW-1RA	07/25/2014	13.02	8.04	4.98	2,500	390	1,100	17	<0.5	<0.5	<0.5	-
MW-1RA	01/29/2015	13.02	7.28	5.74	1,700	87 J	170	0.5 J	<0.5	<0.5	<0.5	-
MW-1RA	07/03/2015	13.02	8.76	4.26	1,500	79 J	260	<0.5	<0.5	<0.5	<0.5	-
MW-1RA	**01/28/2016**	**13.02**	**8.67**	**4.35**	**1,500**	**66 J**	**210**	**<0.5**	**<0.5**	**<0.5**	**<0.5**	**-**
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	-

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 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-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	-
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-1RB	01/09/2014	13.21	7.78	5.43	1,400	<50	150	<0.5	<0.5	<0.5	<0.5	-
MW-1RB	07/25/2014	13.21	9.96	3.25	2,300	57	270	1	<0.5	<0.5	<0.5	-
MW-1RB	01/29/2015	13.21	6.87	6.34	5,100	95 J	960	30	<0.5	0.5 J	<0.5	-
MW-1RB	07/03/2015	13.21	8.57	4.64	3,100	210	1,300	2	<0.5	<0.5	<0.5	-
MW-1RB	**01/28/2016**	**13.21**	**5.78**	**7.43**	**2,700**	**41 J**	**<500**	**69**	**<0.5**	**0.7 J**	**<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	-

Table 1

Groundwater Monitoring and Sampling Data
Former Signal Oil Marine Storage and Distribution Facility
Chevron Bulk Plant 206127
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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-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-2	01/09/2014[3]	10.63	-	-	-	-	-	-	-	-	-	-
MW-2	07/25/2014	10.63	3.96	6.67	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	01/29/2015	10.63	3.51	7.12	<50	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	07/03/2015	10.63	4.05	6.58	<50	<31	<50	<0.5	<0.5	<0.5	<0.5	-
MW-2	**01/28/2016**	**10.63**	**3.31**	**7.32**	**<50**	**<32**	**<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	-
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	-	-	-	-	-	-

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 Gel	TPH-GRO	B	T	E	X	MTBE by SW8260
	Units	ft	ft	ft-amsl	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
MW-3	07/27/2012[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-3	01/09/2014	10.72	4.21	6.51	1,500	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	07/25/2014	10.72	4.95	5.77	1,700	<50	120	<0.5	<0.5	<0.5	<0.5	-
MW-3	01/29/2015	10.72	4.15	6.57	1,700	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-3	07/03/2015	10.72	5.05	5.67	2,100	<31	330	<0.5	<0.5	<0.5	<0.5	-
MW-3	**01/28/2016**	**10.72**	**4.57**	**6.15**	**1,200**	**<32**	**100**	**<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	-

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 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-4	01/09/2014	11.40	5.19	6.21	240	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/25/2014	11.40	7.80	3.60	250	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	01/29/2015	11.40	5.28	6.12	340	<50	<50	<0.5	<0.5	<0.5	<0.5	-
MW-4	07/03/2015[3]	11.40	-	-	-	-	-	-	-	-	-	-
MW-4	**01/28/2016**	**11.40**	**6.58**	**4.82**	**130**	**<32**	**<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-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-5	01/09/2014	10.50	4.20	6.30	4,000	670	3,600	130	9	2	13	-
MW-5	07/25/2014	10.50	6.20	4.30	3,200	720	3,400	130	9	2	14	-
MW-5	01/29/2015	10.50	4.08	6.42	2,300	390	2,900	93	7	2	10	-

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 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-5	07/03/2015	10.50	5.90	4.60	2,500	820	3,400	100	8	2	13	-
MW-5	**01/28/2016**	**10.50**	**5.23**	**5.27**	**2,100**	**470**	**4,100**	**85**	**7 J**	**<5**	**7 J**	**-**
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	-
MW-6	01/09/2014	12.98	6.85	6.13	1,400	<50	490	10	<0.5	<0.5	<0.5	-
MW-6	07/25/2014	12.98	9.85	3.13	1,500	<50	460	12	<0.5	<0.5	<0.5	-
MW-6	01/29/2015	12.98	6.83	6.15	990	<50	480	6	<0.5	<0.5	<0.5	-
MW-6	07/03/2015	12.98	9.85	3.13	820	36 J	430	5	<0.5	<0.5	<0.5	-
MW-6	**01/28/2016**	**12.98**	**8.79**	**4.19**	**750**	**<31**	**460**	**3**	**<0.5**	**<0.5**	**<0.5**	**-**
QA	07/21/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5
QA	10/22/2010	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	<0.5

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 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	10/28/2010	-	-	-	-	-	<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	-
QA	01/09/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	07/25/2014	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	01/29/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	07/03/2015	-	-	-	-	-	<50	<0.5	<0.5	<0.5	<0.5	-
QA	**01/28/2016**	**-**	**-**	**-**	**-**	**-**	**<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

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 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

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 = 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 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	Vapor only
VP-11	7/17/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
VP-12	7/22/2009	NS	0.5	0.25	NA	NA	NA	Vapor only
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

February 5, 2016
G-R #386498

TO: Mr. Brian Silva
GHD
10969 Trade Center Drive, Suite 107
Rancho Cordova, California 95670

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
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 **First Semi-Annual Event of January 28, 2016**

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: 1.28.16
Sampler: FT

WELL ID	Vault Frame Condition	Gasket/ O-Ring (M) Missing (R) Replaced	Bolts (M) Missing (R) Replaced	Bolt Flanges B=Broken S=Stripped R=Retaped	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-1RA	OK									Morrison 18"|2	
MW-1RB	OK									" " "	
MW-2	OK									Erico 12"|2	
MW-3	OK									" " "	
MW-4	OK									" " "	
MW-5	OK									" " "	
MW-6	OK	OK	M=2	B=2	OK					Morrison 18"|2	

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: 1-28-16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-1RA Date Monitored: 1-28-16
Well Diameter 2 in.
Total Depth 19.88 ft.
Depth to Water 8.67 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

11.21 xVF .17 = 1.90 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.91

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0855 Weather Conditions: FOG
Sample Time/Date: 1300 / 1-28-16 Water Color: LT. GRY Odor: (Y) / N MODERATE
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? YES If yes, Time: 0903 Volume: [redacted] 4.0 gal. DTW @ Sampling: 9.09

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0859	2.0	6.85	3474	17.5		
0903	4.0	6.82	3483	17.9		

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1.28.16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-1RB Date Monitored: 1.28.16
Well Diameter 2 in.
Total Depth 12.67 ft.
Depth to Water 5.78 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

6.89 xVF .17 = 1.17 x3 case volume = Estimated Purge Volume: 4.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.15

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0920 Weather Conditions: Fob
Sample Time/Date: 1310 / 1.28.16 Water Color: CLEAR Odor: (Y) / N STRONG
Approx. Flow Rate: ✓ gpm. Sediment Description: NONE
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 5.92

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0923	1.5	6.82	2904	16.5		
0926	3.0	6.79	2916	16.9		
0929	4.0	6.77	2928	17.2		

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: SLOW RECOVERY

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1-28-16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-2 Date Monitored: 1-28-16
Well Diameter 2 in.
Total Depth 15.57 ft.
Depth to Water 3.31 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

12.26 xVF .17 = 2.08 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 5.76

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1205 Weather Conditions: Fog
Sample Time/Date: 1230 / 1-28-16 Water Color: Gray Odor: Y / (N)
Approx. Flow Rate: / gpm. Sediment Description: Silty
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 4.81

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1209	2.0	7.16	740	20.2		
1213	4.0	7.19	748	20.4		
1217	6.0	7.22	754	20.7		

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1.28.16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-3 Date Monitored: 1-28.16
Well Diameter 2 in.
Total Depth 17.84 ft.
Depth to Water 4.57 ft. ☐ Check if water column is less then 0.50 ft.

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

13.27 xVF .17 = 2.25 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.22

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1035 Weather Conditions: FOG
Sample Time/Date: 1105 / 1.28.16 Water Color: GRY. Odor: Y / N SLIGHT
Approx. Flow Rate: ~ gpm. Sediment Description: SILTY
Did well de-water? No If yes, Time: Volume: gal. DTW @ Sampling: 6.51

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1040	2.5	6.86	821	19.0		
1045	5.0	6.82	829	19.3		
1049	7.0	6.80	836	19.5		

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:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1-28.16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-4 Date Monitored: 1-28.16
Well Diameter 2 in.
Total Depth 20.13 ft.
Depth to Water 6.58 ft. ☐ Check if water column is less then 0.50 ft.

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

13.55 xVF .17 = 2.30 x3 case volume = Estimated Purge Volume: 7.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.29

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 1120 Weather Conditions: FOG
Sample Time/Date: 1150 / 1-28.16 Water Color: Brn. Odor: Y / (N)
Approx. Flow Rate: ✓ gpm. Sediment Description: Silty
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 8.02

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
1125	2.5	7.06	645	18.2		
1130	5.0	7.10	651	18.5		
1134	7.0	7.13	659	18.8		

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1-28-16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-5 Date Monitored: 1-28-16
Well Diameter 2 in.
Total Depth 17.86 ft.
Depth to Water 5.23 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.

12.63 xVF .17 = 2.14 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 7.75

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0950 Weather Conditions: FOG
Sample Time/Date: 1015 / 1-28-16 Water Color: GRY. Odor: (Y) / N MODERATE
Approx. Flow Rate: ✓ gpm. Sediment Description: SILTY
Did well de-water? NO If yes, Time: Volume: gal. DTW @ Sampling: 6.80

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0953	1.5	7.07	815	17.9		
0956	3.0	7.05	822	18.2		
1000	5.0	7.02	830	18.6		

LABORATORY INFORMATION

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

COMMENTS:

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

GETTLER-RYAN INC.

WELL MONITORING/SAMPLING FIELD DATA SHEET

Client/Facility#: Chevron #206127 Job Number: 386498
Site Address: 2301-2337 Blanding Avenue Event Date: 1.28.16 (inclusive)
City: Alameda, CA Sampler: FT

Well ID MW-6 Date Monitored: 1.28.16
Well Diameter 2 in.
Total Depth 19.98 ft.
Depth to Water 8.79 ft.

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

☐ Check if water column is less then 0.50 ft.

11.19 xVF .17 = 1.90 x3 case volume = Estimated Purge Volume: 6.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.02

Purge Equipment:		Sampling Equipment:	
Disposable Bailer	✓	Disposable Bailer	✓
Stainless Steel Bailer		Pressure Bailer	
Stack Pump		Metal Filters	
Peristaltic Pump		Peristaltic Pump	
QED Bladder Pump		QED Bladder Pump	
Other:		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: ltr
Amt Removed from Well: ltr
Water Removed: ltr

Start Time (purge): 0830 Weather Conditions: FOG
Sample Time/Date: 1245 / 1.28.16 Water Color: LT. BRN. Odor: (Y) / N MODERATE
Approx. Flow Rate: ✓ gpm. Sediment Description: S. SILTY
Did well de-water? Yes If yes, Time: 0838 Volume: 4.0 gal. DTW @ Sampling: 9.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS) / mS µmhos/cm)	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
0834	2.0	6.79	886	16.4		
0838	4.0	6.76	893	16.7		
					✓	✓

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

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

012916-03

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

1 of 1

SCR #: _____

1 Client Information

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

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

Chevron PM: Tim GHDSB Lead Consultant: Silva

Consultant/Office: Getler-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr: Deanna L. Harding, deanna@grinc.com

Consultant Phone #: (925) 551-7444 x180

Sampler: FRANK TENNYSON

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 ☒ / 8021 ☐	TPH-GRO 8260 ☐ / 8015 ☒	TPH-DRO 8015 without Silica Gel Cleanup ☒	TPH-DRO 8015 with Silica Gel Cleanup ☒ (ADDED)	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		1-28-16				2	X	X						
MW-1RA			1300	X		8	X	X	X	X				
MW-1RB			1310	X		8								
MW-2			1230	X		8								
MW-3			1105	X		8								
MW-4			1150	X		8								
MW-5			1015	X		8								
MW-6			1245	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 | EDF/EDD

8 Data Package (circle if required)

Type I - Full
Type VI (Raw Data)

EDD (circle if required)
EDFFLAT (default)
Other: _____

Relinquished by	Date	Time	Received by	Date	Time (9)
[signature]	1-29-16	0700	GETTLER-RYAN FEDEX	01-29-16	0700
[signature]	1-29-16	12:15	A. Salazar	29JAN16	1215

Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____

Temperature Upon Receipt _____ °C

Custody Seals Intact? Yes No

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

February 09, 2016

Project: 206127

Submittal Date: 01/30/2016
Group Number: 1627551
PO Number: 0015165444
Release Number: MOISE
State of Sample Origin: CA

Client Sample Description	Lancaster Labs (LL) #
QA-T-160128 NA Water	8225194
MW-1RA-W-160128 Grab Groundwater	8225195
MW-1RB-W-160128 Grab Groundwater	8225196
MW-2-W-160128 Grab Groundwater	8225197
MW-3-W-160128 Grab Groundwater	8225198
MW-4-W-160128 Grab Groundwater	8225199
MW-5-W-160128 Grab Groundwater	8225200
MW-6-W-160128 Grab Groundwater	8225201

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

Regulatory agencies do not accredit laboratories for all methods, analytes, and matrices. Our scopes of accreditation can be viewed at http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/ .

ELECTRONIC COPY TO	GHD	Attn: Brian Silva
ELECTRONIC COPY TO	Chevron	Attn: Anna Avina
ELECTRONIC COPY TO	Chevron	Attn: Report Contact
ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-160128 NA Water
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225194
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAAQA

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		ug/l	ug/l	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	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

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 14:51	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 14:51	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16032A20A	02/01/2016 23:55	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16032A20A	02/01/2016 23:55	Marie D Beamenderfer	1

Sample Description: MW-1RA-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225195
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 13:00 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA1A

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	N.D.		0.5	1
10945	Ethylbenzene	100-41-4	N.D.		0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	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.	210		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.	66	J	32	1
	The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 15:14	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 15:14	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16032A20A	02/02/2016 05:54	Marie D Beamenderfer	1
01146	GC VOA Water Prep	SW-846 5030B	1	16032A20A	02/02/2016 05:54	Marie D Beamenderfer	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 05:35	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 17:49	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-1RB-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225196
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 13:10 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA1B

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	69		0.5	1
10945	Ethylbenzene	100-41-4	0.7	J	0.5	1
10945	Toluene	108-88-3	N.D.		0.5	1
10945	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.		500	10
	Reporting limits were raised due to sample foaming.					
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	2,700		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.	41	J	31	1
	The reverse surrogate, capric acid, is present at <1%.					

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 15:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 15:37	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/05/2016 04:15	Jeremy C Giffin	10
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/05/2016 04:15	Jeremy C Giffin	10
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 05:57	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 18:11	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-2-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225197
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 12:30 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA02

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	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.	N.D.	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.	32	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 16:00	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 16:00	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/04/2016 19:08	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/04/2016 19:08	Jeremy C Giffin	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 02:40	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 18:33	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-3-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225198
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 11:05 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA03

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	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.	100	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	1,200	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.	N.D.	32	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 16:23	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 16:23	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/04/2016 19:36	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/04/2016 19:36	Jeremy C Giffin	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 03:02	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 18:55	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-4-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225199
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 11:50 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA04

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	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.	130	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.	32	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 16:46	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 16:46	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/04/2016 21:24	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/04/2016 21:24	Jeremy C Giffin	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 03:24	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 19:17	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-5-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225200
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 10:15 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA05

CAT No.	Analysis Name	CAS Number	Result		Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**		**ug/l**	
10945	Benzene	71-43-2	85		5	10
10945	Ethylbenzene	100-41-4	N.D.		5	10
10945	Toluene	108-88-3	7	J	5	10
10945	Xylene (Total)	1330-20-7	7	J	5	10
GC Volatiles	**SW-846 8015B**		**ug/l**		**ug/l**	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,100		250	5
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**		**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	2,100		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.	470		32	1

The reverse surrogate, capric acid, is present at <1%.

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 17:08	Anita M Dale	10
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 17:08	Anita M Dale	10
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/05/2016 04:42	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/05/2016 04:42	Jeremy C Giffin	5
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 03:46	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 19:39	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Sample Description: MW-6-W-160128 Grab Groundwater
Facility# 206127 Job# 386498 GRD
2301-2337 Blanding-Alameda T06019744728

LL Sample # WW 8225201
LL Group # 1627551
Account # 10904

Project Name: 206127

Collected: 01/28/2016 12:45 by FT

Submitted: 01/30/2016 10:00
Reported: 02/09/2016 13:55

Chevron
L4310
6001 Bollinger Canyon Rd.
San Ramon CA 94583

BAA06

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles	**SW-846 8260B**		**ug/l**	**ug/l**	
10945	Benzene	71-43-2	3	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	Toluene	108-88-3	N.D.	0.5	1
10945	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.	460	50	1
GC Petroleum Hydrocarbons	**SW-846 8015B**		**ug/l**	**ug/l**	
08269	TPH-DRO water C10-C28	n.a.	750	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.	31	1
	The reverse surrogate, capric acid, is present at <1%.				

General Sample Comments

CA ELAP Lab Certification No. 2792

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
10945	BTEX 8260B Water	SW-846 8260B	1	D160332AA	02/02/2016 17:32	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D160332AA	02/02/2016 17:32	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16035A20A	02/04/2016 22:19	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	16035A20A	02/04/2016 22:19	Jeremy C Giffin	1
08269	TPH-DRO water C10-C28	SW-846 8015B	1	160330006A	02/04/2016 04:08	Christine E Dolman	1
02216	TPH-DRO water C10-C28 w/Si Gel	SW-846 8015B	1	160330007A	02/08/2016 20:01	Christine E Dolman	1
11172	DRO by 8015 w/ Silica Gel Ext	SW-846 3510C	1	160330007A	02/02/2016 16:50	JoElla L Rice	1
07003	Extraction - DRO (Waters)	SW-846 3510C	1	160330006A	02/02/2016 16:50	JoElla L Rice	1

Quality Control Summary

Client Name: Chevron
Reported: 02/09/2016 13:55

Group Number: 1627551

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.

Method Blank

Analysis Name	Result	MDL
	ug/l	ug/l
Batch number: D160332AA	Sample number(s): 8225194-8225201	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 16032A20A	Sample number(s): 8225194-8225195	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 16035A20A	Sample number(s): 8225196-8225201	
TPH-GRO N. CA water C6-C12	N.D.	50
Batch number: 160330006A	Sample number(s): 8225195-8225201	
TPH-DRO water C10-C28	N.D.	32
Batch number: 160330007A	Sample number(s): 8225195-8225201	
TPH-DRO water C10-C28 w/Si Gel	N.D.	32

LCS/LCSD

Analysis Name	LCS Spike Added	LCS Conc	LCSD Spike Added	LCSD Conc	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l					
Batch number: D160332AA	Sample number(s): 8225194-8225201								
Benzene	20	22.03			110		78-120		
Ethylbenzene	20	20.31			102		78-120		
Toluene	20	20.11			101		80-120		
Xylene (Total)	60	61			102		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16032A20A	Sample number(s): 8225194-8225195								
TPH-GRO N. CA water C6-C12	1100	1038.04	1100	1025.56	94	93	71-138	1	30
Batch number: 16035A20A	Sample number(s): 8225196-8225201								
TPH-GRO N. CA water C6-C12	1100	1035.97	1100	1048.8	94	95	71-138	1	30
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160330006A	Sample number(s): 8225195-8225201								
TPH-DRO water C10-C28	1600	1400.42	1600	1350.93	88	84	53-115	4	20
	ug/l	ug/l	ug/l	ug/l					
Batch number: 160330007A	Sample number(s): 8225195-8225201								

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 02/09/2016 13:55

Group Number: 1627551

Analysis Name	LCS Spike Added ug/l	LCS Conc ug/l	LCSD Spike Added ug/l	LCSD Conc ug/l	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Max
TPH-DRO water C10-C28 w/Si Gel	1600	1333.77	1600	1268.26	83	79	43-120	5	20

MS/MSD

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

Analysis Name	Unspiked Conc ug/l	MS Spike Added ug/l	MS Conc ug/l	MSD Spike Added ug/l	MSD Conc ug/l	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
Batch number: D160332AA	Sample number(s): 8225194-8225201 UNSPK: P223417									
Benzene	N.D.	20	16.57	20	16.64	83	83	78-120	0	30
Ethylbenzene	N.D.	20	15.32	20	15.59	77*	78	78-120	2	30
Toluene	N.D.	20	15.3	20	15.35	77*	77*	80-120	0	30
Xylene (Total)	N.D.	60	46.21	60	46.69	77*	78*	80-120	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: BTEX 8260B Water
Batch number: D160332AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8225194	99	94	94	99
8225195	97	95	95	102
8225196	97	95	94	101
8225197	100	97	93	98
8225198	97	95	95	102
8225199	100	95	94	97
8225200	97	95	94	99
8225201	97	94	94	100
Blank	99	94	95	98
LCS	98	97	94	100
MS	98	98	94	101
MSD	98	98	95	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16032A20A

	Trifluorotoluene-F
8225194	88
8225195	91
Blank	89
LCS	97
LCSD	101

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Quality Control Summary

Client Name: Chevron
Reported: 02/09/2016 13:55

Group Number: 1627551

Limits: 63-135

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16035A20A

	Trifluorotoluene-F
8225196	91
8225197	87
8225198	89
8225199	85
8225200	96
8225201	93
Blank	83
LCS	98
LCSD	99
Limits:	63-135

Analysis Name: TPH-DRO water C10-C28
Batch number: 160330006A

	Orthoterphenyl
8225195	93
8225196	76
8225197	70
8225198	83
8225199	86
8225200	56
8225201	74
Blank	96
LCS	103
LCSD	100
Limits:	50-124

Analysis Name: TPH-DRO water C10-C28 w/Si Gel
Batch number: 160330007A

	Orthoterphenyl
8225195	87
8225196	69
8225197	67
8225198	70
8225199	89
8225200	51
8225201	66
Blank	83
LCS	98
LCSD	95
Limits:	42-126

*- 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.
P###### is indicative of a Background or Unspiked sample that is batch matrix QC and was not performed using a sample from this submission group.

Chevron California Region Analysis Request/Chain of Custody

eurofins | Lancaster Laboratories

Acct. # 30098 10904 Group # 627549 627551 Sample # 8225177-89 8225194-201

For Eurofins Lancaster Laboratories use only

Instructions on reverse side correspond with circled numbers.

1 of 1

SCR #:

1 Client Information

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

Site Address 2301-2337 BLANDING AVENUE, ALAMEDA, CA

Chevron PM TM Lead Consultant GHDSB Stliva

Consultant/Office Getter-Ryan Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568

Consultant Project Mgr Deanna L. Harding, deanna@grinc.com

Consultant Phone # (925) 551-7444 x180

Sampler FRANK TEMINONI

4 Matrix

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

3 Grab / Composite

2 Sample Identification

5 Analyses Requested

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 COLUMN	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method
QA		1.28.16				2	X	X						
MW-1RA			1300	X		8	X	X	X	X				
MW-1RB			1310	X		8								
MW-2			1230	X		8								
MW-3			1105	X		8								
MW-4			1150	X		8								
MW-5			1015	X		8								
MW-6			1245	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 EDF/EDD

8 Data Package (circle if required)

Type I - Full

Type VI (Raw Data)

EDD (circle if required)

EDFFLAT (default)

Other: _____

Relinquished by	Date	Time	Received by	Date	Time
	1.29.16	0700	GETTLER-RYAN FRIDGE	01-29-16	0700
	1-29-16	12:15	A. Salazar	29JAN16	1215
Relinquished by Commercial Carrier: UPS ___ FedEx X Other ___	1/29/16	1600	FE Krista Abel	1/30/16	1000

Temperature Upon Receipt 0.6 - 0.3°C

Custody Seals Intact? (Yes) No

eurofins | Lancaster Laboratories Environmental

Sample Administration Receipt Documentation Log

Doc Log ID: 134942

Group Number(s): ~~1627549~~ 1627551

JH 1/30/16 (2)

Client: California Office

ALAMEDA

Delivery and Receipt Information

Delivery Method:	BASC	Arrival Timestamp:	01/30/2016 10:00
Number of Packages:	2	Number of Projects:	1
State/Province of Origin:	CA		

Arrival Condition Summary

Shipping Container Sealed:	Yes	Sample IDs on COC match Containers:	Yes
Custody Seal Present:	Yes	Sample Date/Times match COC:	Yes
Custody Seal Intact:	Yes	VOA Vial Headspace ≥ 6mm:	No
Samples Chilled:	Yes	Total Trip Blank Qty:	2
Paperwork Enclosed:	Yes	Trip Blank Type:	HCL
Samples Intact:	Yes	Air Quality Samples Present:	No
Missing Samples:	No		
Extra Samples:	No		
Discrepancy in Container Qty on COC:	No		

Unpacked by Krista Abel (3058) at 11:35 on 01/30/2016

Samples Chilled Details: ALAMEDA

Thermometer Types: DT = Digital (Temp. Bottle) IR = Infrared (Surface Temp) All Temperatures in °C.

Cooler #	Thermometer ID	Corrected Temp	Therm. Type	Ice Type	Ice Present?	Ice Container	Elevated Temp?
1	DT131	0.6	DT	Wet	Y	Bagged	N
2	DT131	0.8	DT	Wet	Y	Bagged	N

2425 New Holland Pike
Lancaster, PA 17605-2425
T 717-656-2300
F 717-656-2681
www.LancasterLabs.com

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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
>	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.

Laboratory Data Qualifiers:

B - Analyte detected in the blank
C - Result confirmed by reanalysis
E - Concentration exceeds the calibration range
J (or G, I, X) - estimated value ≥ the Method Detection Limit (MDL or DL) and < the Limit of Quantitation (LOQ or RL)
P - Concentration difference between the primary and confirmation column >40%. The lower result is reported.
U - Analyte was not detected at the value indicated
V - Concentration difference between the primary and confirmation column >100%. The reporting limit is raised due to this disparity and evident interference…

Additional Organic and Inorganic CLP qualifiers may be used with Form 1 reports as defined by the CLP methods. Qualifiers specific to Dioxin/Furans and PCB Congeners are detailed on the individual Analysis Report.

Analytical test results meet all requirements of the associated regulatory program (i.e., NELAC (TNI), DoD, and ISO 17025) 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.

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.

WARRANTY AND LIMITS OF LIABILITY - In accepting analytical work, we warrant the accuracy of test results for the sample as submitted. THE FOREGOING EXPRESS WARRANTY IS EXCLUSIVE AND IS GIVEN IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED. WE DISCLAIM ANY OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING A WARRANTY OF FITNESS FOR PARTICULAR PURPOSE AND WARRANTY OF MERCHANTABILITY. IN NO EVENT SHALL EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL, LLC BE LIABLE FOR INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES INCLUDING, BUT NOT LIMITED TO, DAMAGES FOR LOSS OF PROFIT OR GOODWILL REGARDLESS OF (A) THE NEGLIGENCE (EITHER SOLE OR CONCURRENT) OF EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL AND (B) WHETHER EUROFINS LANCASTER LABORATORIES ENVIRONMENTAL HAS BEEN INFORMED OF THE POSSIBILITY OF SUCH DAMAGES. We accept no legal responsibility for the purposes for which the client uses the test results. No purchase order or other order for work shall be accepted by Eurofins Lancaster Laboratories Environmental which includes any conditions that vary from the Standard Terms and Conditions, and Eurofins Lancaster Laboratories Environmental hereby objects to any conflicting terms contained in any acceptance or order submitted by client.

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