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By Alameda County Environmental Health 10:08 am, Feb 16, 2017

**Fourth Quarter 2016
Semi-Annual Groundwater
Monitoring Report**

Former Chevron-branded
Service Station 92029
890 West MacArthur Boulevard
Oakland, California
Case #: RO0002438



Prepared for:
Chevron Environmental
Management Company
6001 Bollinger Canyon Road
San Ramon, CA 94583

Prepared by:
Stantec Consulting Services Inc.
15575 Los Gatos Blvd., Building C
Los Gatos, CA 95032

February 14, 2017



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6001 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 842-3201
CMacleod@chevron.com

February 14, 2017

Mr. Mark Detterman
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502

Dear Mr. Detterman:

Attached for your review is the *Fourth Quarter 2016 Semi-Annual Groundwater Monitoring Report* for former Chevron-branded service station 92029, located at 890 West MacArthur Boulevard in Oakland, California (**Case #**: RO0002438). This report was prepared by Stantec Consulting Services Inc. (Stantec), upon whose assistance and advice I have relied. I declare under penalty of perjury that the information and/or recommendations contained in the attached report are true and correct, to the best of my knowledge.

If you should have any further questions, please do not hesitate to contact me or the Stantec project manager, Travis Flora, at (408) 356-6124 ext. 238, or travis.flora@stantec.com.

Sincerely,

A handwritten signature in blue ink that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



February 14, 2017

Attention: **Mr. Mark Detterman**
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250, Alameda, CA 94502

Reference: **Fourth Quarter 2016 Semi-Annual Groundwater Monitoring Report**
Former Chevron-branded Service Station 92029
890 West MacArthur Boulevard, Oakland, California
Case #: RO0002438

Dear Mr. Detterman:

On behalf of Chevron Environmental Management Company (CEMC), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Fourth Quarter 2016 Semi-Annual Groundwater Monitoring Report* for former Chevron-branded service station 92029, located at 890 West MacArthur Boulevard, Oakland, Alameda County, California (Site - shown on **Figure 1**). This report is presented in three sections: Site Background, Fourth Quarter 2016 Groundwater Monitoring and Sampling Program, and Conclusions and Recommendations.

SITE BACKGROUND

The Site is a former Chevron-branded service station located on the northeast corner at the intersection of West MacArthur Boulevard and Market Street in Oakland, California. The Site is currently a fenced vacant lot. A former Chevron-branded service station operated at the Site from approximately 1956 to 2004. Prior to 1970, Site features consisted of two 5,000-gallon and one 3,000-gallon gasoline underground storage tanks (USTs) located in the eastern portion of the Site, three fuel dispenser islands (one located in the northwestern portion of the Site and two located in the central portion of the Site), associated product piping, a station building with two hydraulic hoists, and a waste oil UST (unknown size) located in the northern portion of the Site. The product piping was replaced in 1970, and the 3,000-gallon UST was replaced with a 10,000-gallon UST sometime before 1978. In 1982, the two 5,000-gallon and one 10,000-gallon USTs were replaced with three 10,000-gallon fiberglass USTs.

In 1984, the service station building was demolished, the hydraulic hoists were removed, and a kiosk was installed near the center of the Site. In addition, the three fuel dispenser islands were removed from the Site and replaced with five fuel dispenser islands (two located in the north-central portion of the Site and three located in the south-central portion of the Site). The fuel dispenser islands were replaced and the USTs were upgraded in 1997. The waste oil UST was removed from the Site sometime between 1984 and 1997. In 2005, the service station was closed and all Site structures, including the three 10,000-gallon fiberglass USTs and fuel dispenser islands, were removed. According to the *Well Installation Report*, prepared by Conestoga-Rovers & Associates (CRA) and dated November 18, 2008, extensive over-excavation was performed at this time and approximately 5,135 tons of impacted soil and 25,500 gallons of groundwater were removed and disposed off-site.

FOURTH QUARTER 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 92029

February 14, 2017

Page 2 of 5

Land use near the Site consists of a mixture of commercial and residential properties. The Site is bounded to the north by a residential area, on the west by Market Street followed by a small grocery store and associated parking, on the south by West MacArthur Boulevard followed by a tire sales and service shop, and to the east by a motel.

FOURTH QUARTER 2016 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan Inc. (G-R) performed the Fourth Quarter 2016 groundwater monitoring and sampling event on December 21, 2016. G-R's standard operating procedures (SOPs) and field data sheets are included in **Attachment A**. G-R gauged depth-to-groundwater (DTW) in four Site wells (MW-5 through MW-8) prior to collecting groundwater samples for laboratory analysis. All four wells, which are located down-gradient of the Site, were sampled.

Investigation-derived waste (IDW) generated during the Fourth Quarter 2016 groundwater monitoring and sampling event was transported by Clean Harbors Environmental Services to Seaport Environmental in Redwood City, California.

Groundwater Elevation and Gradient

Well construction details and a screen interval assessment for each Site well are presented in **Table 1**. Wells MW-5, MW-7, and MW-8 are currently screened across the prevailing groundwater table, while the DTW measurement in well MW-6 is above the screen interval, and the screen interval is currently entirely submerged. Current and historical groundwater elevation data are presented in **Table 2**. A groundwater elevation contour map (based on Fourth Quarter 2016 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally toward the southwest at an average hydraulic gradient of approximately 0.027 feet per foot (ft/ft). This is generally consistent with the historical direction of groundwater flow, as shown by the groundwater flow direction rose diagram on **Figure 3** illustrating the direction of groundwater flow from First Quarter 2002 to present.

Schedule of Laboratory Analysis

Groundwater samples were analyzed for total petroleum hydrocarbons as gasoline range organics (TPH-GRO) using United States Environmental Protection Agency (US EPA) Method 8015B (SW-846) and benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and methyl *tertiary*-butyl ether (MtBE) using US EPA Method 8260B (SW-846).

Groundwater Analytical Results

During Fourth Quarter 2016, groundwater samples were collected from four Site wells (MW-5 through MW-8). Current and historical groundwater analytical results are included in **Table 2** and **Table 3**. A figure showing the latest groundwater analytical data plotted on a Site map is included as **Figure 4**. A TPH-GRO isoconcentration map is shown on **Figure 5**. A benzene isoconcentration map is shown on **Figure 6**. A MtBE isoconcentration map is shown on **Figure 7**.

Certified laboratory analysis reports and chain-of-custody documents are presented as **Attachment B**. Hydrographs based on current and historical groundwater elevations and analytical results are included in **Attachment C**. A summary of Fourth Quarter 2016 groundwater analytical results follows:

FOURTH QUARTER 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 92029

February 14, 2017

Page 3 of 5

- **TPH-GRO** was detected in three Site wells, at concentrations of 4,000 micrograms per liter ($\mu\text{g/L}$; well MW-5), 5,800 $\mu\text{g/L}$ (well MW-7), and 7,400 $\mu\text{g/L}$ (well MW-6).
- **Benzene** was detected in three Site wells, at concentrations of 1 $\mu\text{g/L}$ (well MW-5), 72 $\mu\text{g/L}$ (well MW-7), and 410 $\mu\text{g/L}$ (well MW-6).
- **Toluene** was detected in three Site wells, at concentrations of 0.6 $\mu\text{g/L}$ (well MW-7), 1 $\mu\text{g/L}$ (well MW-5), and 5 $\mu\text{g/L}$ (well MW-6).
- **Ethylbenzene** was detected in three Site wells, at concentrations of 2 $\mu\text{g/L}$ (well MW-5), 57 $\mu\text{g/L}$ (well MW-6), and 160 $\mu\text{g/L}$ (well MW-7).
- **Total Xylenes** were detected in two Site wells, at concentrations of 0.8 $\mu\text{g/L}$ (well MW-5) and 2 $\mu\text{g/L}$ (well MW-7).
- **MtBE** was detected in two Site wells, at concentrations of 2 $\mu\text{g/L}$ (well MW-7) and 49 $\mu\text{g/L}$ (well MW-6).

CONCLUSIONS AND RECOMMENDATIONS

During Fourth Quarter 2016, maximum concentrations of petroleum hydrocarbons were observed in well MW-6, located down-gradient of the former service station features (fuel dispenser islands and gasoline USTs) situated in the southern and eastern portions of the Site, and in well MW-7, which is located approximately 95 feet down-gradient of well MW-6. TPH-GRO and BTEX compounds were also detected in well MW-5, which is located down-gradient of the former service station features (fuel dispenser islands, hydraulic hoists, and waste oil UST) situated in the northern portion of the Site. The dissolved-phase petroleum hydrocarbon plume does not appear to extend to furthest down-gradient well MW-8, which is approximately 190 feet southwest of the Site.

Per Alameda County Environmental Health (ACEH) correspondence and the Low-Threat UST Case Closure Policy (LTCP) checklist posted to the GeoTracker™ database, both dated August 26, 2016, the Site meets California State Water Resources Control Board (SWRCB) LTCP groundwater-specific criteria, and the current dissolved-phase concentrations do not pose a significant threat to human health, safety, or the environment.

Stantec requested low-threat case closure in the *Response to Technical Comments*, dated October 19, 2016. As of the date of this report, no response has been received from ACEH, but the case is currently under review by the SWRCB, as noted on the SWRCB GeoTracker™ database. Until case closure is received, the Site will maintain an annual groundwater monitoring and sampling frequency, with events conducted in December of each year.

If you have any questions, please contact the Stantec Project Manager, Travis Flora, at (408) 356-6124 or Travis.Flora@stantec.com.

FOURTH QUARTER 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 92029

February 14, 2017

Page 4 of 5

LIMITATIONS

This document entitled Fourth Quarter 2016 Semi-Annual Groundwater Monitoring Report was prepared by Stantec Consulting Services Inc. ("Stantec") for the account of Chevron Environmental Management Company (the "Client"). Any reliance on this document by any third party is strictly prohibited. The material in it reflects Stantec's professional judgment in light of the scope, schedule and other limitations stated in the document and in the contract between Stantec and the Client. The opinions in the document are based on conditions and information existing at the time the document was published and do not take into account any subsequent changes. In preparing the document, Stantec did not verify information supplied to it by others. Any use which a third party makes of this document is the responsibility of such third party. Such third party agrees that Stantec shall not be responsible for costs or damages of any kind, if any, suffered by it or any other third party as a result of decisions made or actions taken based on this document.

Prepared by Erin O'Malley
(signature)

Erin O'Malley
Project Engineer

Reviewed by Marisa Kaffenberger
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Senior Engineer



FOURTH QUARTER 2016 SEMI-ANNUAL GROUNDWATER MONITORING REPORT

Former Chevron-branded Service Station 92029

February 14, 2017

Page 5 of 5

Attachments:

Table 1 – Well Details / Screen Interval Assessment – Fourth Quarter 2016

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Additional Groundwater Analytical Results

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – Fourth Quarter 2016

Figure 3 – Groundwater Flow Direction Rose Diagram – Fourth Quarter 2016

Figure 4 – Site Plan Showing Groundwater Concentrations – Fourth Quarter 2016

Figure 5 – TPH-GRO Isoconcentration Map – Fourth Quarter 2016

Figure 6 – Benzene Isoconcentration Map – Fourth Quarter 2016

Figure 7 – MtBE Isoconcentration Map – Fourth Quarter 2016

Attachment A – Gettler-Ryan Inc. Field Data Sheets and Standard Operating Procedures –
Fourth Quarter 2016

Attachment B – Certified Laboratory Analysis Reports and Chain-of-Custody Documents

Attachment C – Hydrographs

cc:

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6001 Bollinger Canyon Road, San Ramon, CA 94583 – Electronic Copy

Mr. Buyandalai Itgel, 787 Marlesta Road, Pinole, CA 94564 – Electronic Copy

TABLES

Table 1
Well Details / Screen Interval Assessment
Fourth Quarter 2016
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard, Oakland, California

Well ID	Date Installed	Well Type	Casing Diameter (inches)	Top of Casing (feet above msl)	Construction Well Depth (feet bgs)	Current Well Depth ¹ (feet below TOC)	Current Depth to Groundwater ¹ (feet below TOC)	Screen Interval (feet bgs)	Screen Interval Assessment
MW-5	07/24/08	Monitoring	2	49.39	25.00	24.98	5.08	5-25	Depth-to-groundwater within screen interval.
MW-6	07/24/08	Monitoring	2	49.07	25.00	24.96	4.63	5-25	Depth-to-groundwater above screen interval.
MW-7	07/24/08	Monitoring	2	48.74	25.00	24.87	6.83	5-25	Depth-to-groundwater within screen interval.
MW-8	07/24/08	Monitoring	2	47.61	25.00	25.01	8.31	5-25	Depth-to-groundwater within screen interval.
Notes: bgs = below ground surface msl = mean sea level TOC = top of casing ¹ = As measured on December 21, 2016.									

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-5									
08/22/08 ¹	49.39	9.97	39.42	--	--	--	--	--	--
08/27/08 ³	49.39	10.03	39.36	54	0.5	0.8	<0.5	0.7	10
11/21/08 ³	49.39	8.42	40.97	6,000	93	6	37	6	8
02/13/09 ³	49.39	7.11	42.28	5,100	31	5	20	3	6
05/08/09 ³	49.39	7.21	42.18	3,600	18	4	14	2	2
08/07/09 ³	49.39	9.60	39.79	520	0.7	<0.5	<0.5	<0.5	2
11/05/09 ³	49.39	7.08	42.31	7,400	16	5	18	4	0.9
05/06/10 ³	49.39	6.08	43.31	3,500	4	2	3	0.9	0.9
11/03/10 ⁵	49.39	9.05	40.34	5,000	13	4	8	3	0.9
05/10/11 ⁵	49.39	7.26	42.13	3,200	6	4	7	0.9	<0.5
11/10/11 ⁵	49.39	7.60	41.79	2,600	6	3	10	2	<0.5
05/11/12 ⁵	49.39	6.48	42.91	3,300	<3	<3	<3	<3	<3
11/14/12 ³	49.39	8.89	40.50	2,100	3	2	3	0.6	<0.5
05/08/13 ³	49.39	8.41	40.98	2,100	2	0.9	2	<0.5	<0.5
11/06/13 ³	49.39	9.81	39.58	160	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14 ³	49.39	6.74	42.65	3,500	1	2	4	<0.5	<0.5
11/19/14	49.39	INACCESSIBLE; FLOODED WITH SURFACE WATER							
05/07/15 ³	49.39	7.08	42.31	2,800	1	1	2	<0.5	<0.5
12/29/15 ³	49.39	7.13	42.26	4,500	3	2	3	2	<0.5
05/18/16 ³	49.39	7.48	41.91	1,600	<0.5	<0.5	<0.5	<0.5	<0.5
12/21/16³	49.39	5.08	44.31	4,000	1	1	2	0.8	<0.5
MW-6									
08/22/08 ¹	49.07	8.98	40.09	--	--	--	--	--	--
08/27/08 ³	49.07	8.98	40.09	6,000	990	4	350	530	440
11/21/08 ³	49.07	8.12	40.95	14,000	1,000	15	1,300	550	300
02/13/09 ³	49.07	5.84	43.23	9,700	630	4	510	36	180
05/08/09 ³	49.07	5.77	43.30	7,600	240	4	470	67	38
08/07/09 ³	49.07	8.49	40.58	14,000	1,500	12	1,400	180	330
11/05/09 ³	49.07	6.72	42.35	22,000	870	8	1,300	130	160
05/06/10 ³	49.07	4.89	44.18	5,200	110	2	160	23	9
11/03/10 ⁵	49.07	8.05	41.02	13,000	1,100	8	670	58	160
05/10/11 ^{4,5}	49.07	8.56	40.51	<50	0.6	<0.5	<0.5	<0.5	<0.5
11/10/11 ⁵	49.07	7.59	41.48	5,700	260	7	180	13	37
05/11/12 ⁵	49.07	5.68	43.39	1,200	36	0.6	0.8	<0.5	1
11/14/12 ³	49.07	9.83	39.24	6,400	290	9	180	6	36

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-6 (cont)									
05/08/13 ³	49.07	7.21	41.86	2,000	77	1	9	<0.5	6
11/06/13 ³	49.07	9.27	39.80	5,300	330 ⁶	3 ⁶	8 ⁶	1 ⁶	78 ⁶
05/14/14 ³	49.07	6.29	42.78	5,000	140	6	46	2	10
11/19/14	49.07	INACCESSIBLE; FLOODED WITH SURFACE WATER				--	--	--	--
05/07/15 ³	49.07	7.20	41.87	3,600	19	2	7	<0.5	2
12/29/15 ³	49.07	6.21	42.86	7,700	170	4	22	1	15
05/18/16 ³	49.07	6.78	42.29	4,500	150	4	23	1	12
12/21/16³	49.07	4.63	44.44	7,400	410	5	57	<3	49
MW-7									
08/22/08 ¹	48.74	10.20	38.54	--	--	--	--	--	--
08/27/08 ³	48.74	10.19	38.55	<50	<0.5	0.6	<0.5	0.7	6
11/21/08 ³	48.74	9.51	39.23	1,100	80	<0.5	65	0.7	6
02/13/09 ³	48.74	7.95	40.79	630	30	<0.5	38	0.9	7
05/08/09 ³	48.74	8.04	40.70	1,200	83	<0.5	190	2	8
08/07/09 ³	48.74	9.88	38.86	8,900	240	0.7	770	5	5
11/05/09 ³	48.74	9.03	39.71	12,000	630	<1	1,300	420	5
05/06/10 ³	48.74	7.88	40.86	4,000	190	<0.5	270	7	6
11/03/10 ⁵	48.74	9.48	39.26	5,700	150	0.7	45	2	4
05/10/11 ⁵	48.74	8.82	39.92	3,500	180	<0.5	150	2	5
11/10/11 ⁵	48.74	9.68	39.06	1,500	2	<0.5	2	<0.5	5
05/11/12 ⁵	48.74	8.37	40.37	9,200	440	<5	1,000	33	<5
11/14/12 ³	48.74	9.79	38.95	5,000	<3	<3	6	<3	4
05/08/13 ³	48.74	9.54	39.20	2,200	10	<0.5	2	<0.5	5
11/06/13 ³	48.74	10.60	38.14	790	<0.5	<0.5	<0.5	<0.5	4
05/14/14 ³	48.74	8.73	40.01	8,200	380 ⁶	<1 ⁶	460 ⁶	34 ⁶	4 ⁶
11/19/14 ³	48.74	10.33	38.41	1,200	0.6	<0.5	1	<0.5	5
05/07/15 ³	48.74	9.33	39.41	5,000	24	0.8	19	1	3
12/29/15 ³	48.74	7.68	41.06	6,000	88	0.5	120	2	3
05/18/16 ³	48.74	9.00	39.74	8,000	85	<3	190	3	3
12/21/16³	48.74	6.83	41.91	5,800	72	0.6	160	2	2
MW-8									
08/22/08 ¹	47.61	12.41	35.20	--	--	--	--	--	--
08/27/08 ³	47.61	12.42	35.19	<50	<0.5	0.7	<0.5	0.6	<0.5
11/21/08 ³	47.61	11.42	36.19	<50	<0.5	<0.5	<0.5	<0.5	<0.5
02/13/09 ³	47.61	8.87	38.74	<50	<0.5	<0.5	<0.5	<0.5	<0.5

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WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MtBE (µg/L)
MW-8 (cont)									
05/08/09 ³	47.61	10.79	36.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/07/09 ³	47.61	12.33	35.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/05/09 ³	47.61	11.23	36.38	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/06/10 ³	47.61	10.28	37.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/03/10 ⁵	47.61	11.37	36.24	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/10/11 ⁵	47.61	11.55	36.06	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/10/11 ⁵	47.61	11.49	36.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/11/12 ⁵	47.61	10.89	36.72	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/14/12 ³	47.61	11.73	35.88	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/13 ³	47.61	12.03	35.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/06/13 ³	47.61	12.63	34.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14 ³	47.61	11.69	35.92	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/19/14 ³	47.61	12.33	35.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/07/15 ³	47.61	11.79	35.82	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/15 ³	47.61	9.58	38.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/18/16 ³	47.61	11.72	35.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/21/16³	47.61	8.31	39.30	<50	<0.5	<0.5	<0.5	<0.5	<0.5
MW-1									
03/12/02 ¹	50.71	6.50	44.21	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
06/07/02	50.71	8.69	42.02	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
09/13/02	50.71	9.28	41.43	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
12/13/02	50.71	8.48	42.23	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
03/01/03	50.71	7.34	43.37	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ²
06/27/03 ³	50.71	9.29	41.42	<50	<0.5	0.6	<0.5	<0.5	<0.5
09/30/03 ³	50.71	10.17	40.54	<50	<0.5	0.6	<0.5	<0.5	<0.5
12/03/03 ³	50.71	7.82	42.89	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	50.71	6.57	44.14	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	50.71	9.78	40.93	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	50.71	9.91	40.80	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 ³	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	50.71	2.90	47.81	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	50.71	8.59	42.12	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	50.71	9.38	41.33	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	50.71	8.44	42.27	--	--	--	--	--	--

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)
MW-1 (cont)									
03/20/06	50.71	3.05	47.66	--	--	--	--	--	--
06/01/06	50.71	6.77	43.94	--	--	--	--	--	--
09/11/06	50.71	9.18	41.53	--	--	--	--	--	--
DESTROYED									
MW-2									
03/12/02 ¹	52.57	6.09	46.48	<50	<0.50	<0.50	<0.50	<1.5	<2.5/3 ²
06/07/02	52.57	8.65	43.92	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
09/13/02	52.57	9.58	42.99	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
12/13/02	52.57	8.50	44.07	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<2 ²
03/01/03	52.57	7.00	45.57	<50	<0.50	<0.50	<0.50	<1.5	<2.5/<0.5 ²
06/27/03 ³	52.57	9.59	42.98	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 ³	52.57	10.64	41.93	<50	<0.5	<0.5	<0.5	<0.5	0.7
12/03/03 ³	52.57	7.54	45.03	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	52.57	6.05	46.52	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	52.57	10.15	42.42	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	52.57	10.14	42.43	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/04 ³	52.57	2.29	50.28	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	52.57	2.44	50.13	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	52.57	8.99	43.58	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	52.57	10.17	42.40	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/02/05	52.57	8.99	43.58	--	--	--	--	--	--
03/20/06	52.57	2.70	49.87	--	--	--	--	--	--
06/01/06	51.57	6.51	45.06	--	--	--	--	--	--
09/11/06	51.57	10.06	41.51	--	--	--	--	--	--
DESTROYED									
MW-3									
03/12/02 ¹	50.31	6.50	43.81	12,000	600	8.5	1,100	370	700/650 ²
06/07/02	50.31	7.74	42.57	14,000	630	8.8	1,200	160	520/490 ²
09/13/02	50.31	9.73	40.58	3,000	270	3.2	200	11	600/640 ²
12/13/02	50.31	8.60	41.71	24,000	1,100	14	2,400	220	650/540 ²
03/01/03	50.31	6.75	43.56	16,000	500	9.0	1,200	130	460/330 ²
06/27/03 ³	50.31	9.25	41.06	9,500	390	6	450	30	470
09/30/03 ³	50.31	10.31	40.00	2,000	110	1	100	3	710
12/03/03 ³	50.31	8.18	42.13	19,000	970	8	2,100	85	420
03/10/04 ³	50.31	6.10	44.21	15,000	550	6	960	95	220

Table 2
Groundwater Monitoring Data and Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)
MW-3 (cont)									
06/30/04 ³	50.31	9.80	40.51	3,200	150	1	100	3	660
09/30/04 ³	50.31	10.18	40.13	1,900	66	0.8	84	4	690
12/29/04 ³	50.31	4.58	45.73	16,000	470	7	820	47	170
03/23/05 ³	50.31	5.07	45.24	18,000	380	6	960	58	140
06/22/05 ³	50.31	8.12	42.19	16,000	700	6	950	62	300
09/02/05 ³	50.31	9.41	40.90	8,400	380	4	510	41	440
12/02/05 ³	50.31	7.97	42.34	16,000	490	6	1,200	32	170
03/20/06 ³	50.31	5.32	44.99	4,200	79	0.8	2	10	34
06/01/06 ³	50.31	7.07	43.24	5,400	67	1	26	3	28
09/11/06 ³	50.31	9.07	41.24	14,000	270	5	240	38	97
DESTROYED									
MW-4									
03/12/02 ¹	49.93	5.34	44.59	9,700	360	5.3	1,100	150	170/170 ²
06/07/02	49.93	8.52	41.41	7,300	170	2.7	280	21	200/120 ²
09/13/02	49.93	9.86	40.07	5,800	92	4.5	80	14	190/160 ²
12/13/02	49.93	9.42	40.51	10,000	250	2.2	330	19	170/200 ²
03/01/03	49.93	7.33	42.60	12,000	300	4.6	900	110	160/100 ²
06/27/03 ³	49.93	9.62	40.31	7,500	110	2	200	58	130
09/30/03 ³	49.93	11.13	38.80	3,600	18	<1	16	7	520
12/03/03 ³	49.93	7.80	42.13	16,000	1,000	6	720	52	73
03/10/04 ³	49.93	6.69	43.24	2,200	230	3	610	71	55
06/30/04 ³	49.93	10.33	39.60	7,700	59	<1	78	17	110
09/30/04 ³	49.93	10.75	39.18	4,800	100	1	33	10	400
12/29/04 ³	49.93	3.34	46.59	13,000	250	3	480	27	42
03/23/05 ³	49.93	4.24	45.69	12,000	130	2	280	16	24
06/22/05 ³	49.93	7.95	41.98	6,400	290	2	11	11	18
09/02/05 ³	49.93	9.46	40.47	3,700	180	1	13	7	18
12/02/05 ³	49.93	7.60	42.33	11,000	840	5	480	24	34
03/20/06 ³	49.93	4.50	45.43	790	14	<0.5	1	0.6	2
06/01/06 ³	49.93	7.30	42.63	5,100	48	0.8	42	4	2
09/11/06 ³	49.93	9.38	40.55	6,700	64	3	44	3	4
DESTROYED									

Table 2
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Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	TOC* (ff.)	DTW (ff.)	GWE (msl)	TPH-GRO (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)	MIBE (µg/L)
TRIP BLANK									
QA									
03/12/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/07/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
09/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
12/13/02	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
03/01/03	--	--	--	<50	<0.50	<0.50	<0.50	<1.5	<2.5
06/27/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/03/03 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/10/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/30/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/30/04 ³	--	--	--	<50	<0.5	<0.7	<0.8	<0.8	<0.5
12/29/04 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/23/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/22/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/02/05 ³	--	--	--	<50	<0.5	1 ⁴	<0.5	1 ⁴	<0.5
12/02/05 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
03/20/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
06/01/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
09/11/06 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
08/27/08 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/21/08 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
02/13/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
05/08/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
08/07/09 ⁵	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	--
11/14/12 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/08/13 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/06/13 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/14/14 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
11/19/14 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/07/15 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/29/15 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
05/18/16 ³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5
12/21/16³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Monitoring Data and Analytical Results
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Oakland, California

EXPLANATIONS:

Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories.

TOC = Top of Casing

(ft.) = Feet

DTW = Depth to Water

GWE = Groundwater Elevation

(msl) = Mean sea level

(µg/L) = Micrograms per liter

TPH-GRO = Total Petroleum Hydrocarbons as Gasoline Range Organics

B = Benzene

T = Toluene

E = Ethylbenzene

X = Xylenes

MtBE = Methyl tertiary-butyl ether

-- = Not Measured/Not Analyzed

QA = Quality Assurance/Trip Blank

EPA = Environmental Protection Agency

* Current TOC elevations were surveyed on October 1, 2008, by CRA. The benchmark for this survey was a USGS bronze disk located near the north end of the curb return at the Northwest corner of 38th Street and Broadway, (Benchmark Elevation = 85.41 feet, NGVD29).

¹ Well development performed.

² MtBE by EPA Method 8260.

³ BTEX and MtBE by EPA Method 8260.

⁴ Laboratory confirmed analytical result.

⁵ BTEX by EPA Method 8260.

⁶ Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

Table 3
Additional Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
MW-5								
08/27/08	--	2	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	4	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	3	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	7	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	2	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<10	<3	<3	<3	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	--	<2	<0.5	<0.5	<0.5	--	--	--
MW-6								
08/27/08	--	390	<0.5	<0.5	6	--	--	--
11/21/08	--	320	<13	<13	<13	--	--	--
02/13/09	--	100	<1	<1	4	--	--	--
05/08/09	--	16	<0.5	<0.5	0.9	--	--	--
08/07/09	--	190	<3	<3	5	--	--	--
11/05/09	--	86	<1	<1	4	--	--	--
05/06/10	--	2	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	98	<3	<3	3	--	--	--
05/10/11 ¹	--	<2	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	19	<1	<1	<1	--	--	--
05/11/12	--	<2	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	16	<0.5	<0.5	0.7	--	--	--
05/08/13	--	5	<0.5	<0.5	<0.5	--	--	--
11/06/13 ²	--	60	<1	<1	2	--	--	--
05/14/14	--	8	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	--	3	<0.5	<0.5	<0.5	--	--	--

Table 3
Additional Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
MW-7								
08/27/08	--	<2	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	5	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	4	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	9	<1	<1	<1	--	--	--
05/06/10	--	3	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	6	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	3	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	4	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<20	<5	<5	<5	--	--	--
11/14/12	--	<10	<3	<3	<3	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	--	--	--
05/14/14 ²	--	<10	<1	<1	<1	--	--	<1
11/19/14	--	<2	<0.5	<0.5	<0.5	--	--	--
05/07/15	--	2	<0.5	<0.5	<0.5	--	--	--
MW-8								
08/27/08	--	<2	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	<2	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	<2	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<2	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	--	--	<0.5
11/19/14	--	<2	<0.5	<0.5	<0.5	--	--	--
05/07/15	--	<2	<0.5	<0.5	<0.5	--	--	--

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WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
MW-1								
03/12/02	--	<100	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED								
MW-2								
03/12/02	--	<100	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/03/03	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/10/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/31/04	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/22/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED								

Table 3
Additional Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
MW-3								
03/12/02	--	<100	<2	<2	18	<2	<2	--
06/07/02	--	230	<5.0	<5.0	11	<5.0	<5.0	--
09/13/02	--	170	<2	<2	8	<2	<2	--
12/13/02	--	240	<2	<2	29	31	<2	--
03/01/03	--	160	<0.5	<0.5	10	<0.5	<0.5	--
06/27/03	--	200	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<50	120	<0.5	<0.5	6	0.7	<0.5	--
12/03/03	<250	200	<3	<3	14	<3	<3	--
03/10/04	<50	140	<0.5	<0.5	5	<0.5	<0.5	--
06/30/04	<50	100	<0.5	<0.5	5	<0.5	<0.5	--
09/30/04	<50	72	<0.5	<0.5	4	0.5	<0.5	--
12/31/04	<50	77	<0.5	<0.5	5	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	4	<0.5	3	--
06/22/05	<250	150	<3	<3	6	<3	<3	--
09/02/05	<100	99	<1	<1	<1	<1	<1	--
12/02/05	<100	66	<1	<1	5	<1	<1	--
03/20/06	<50	14	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	12	<0.5	<0.5	0.8	<0.5	<0.5	--
09/11/06	<50	47	<0.5	<0.5	2	<0.5	<0.5	--
DESTROYED								
MW-4								
03/12/02	--	<100	<2	<2	13	<2	<2	--
06/07/02	--	<100	<2	<2	14	<2	<2	--
09/13/02	--	<100	<2	<2	14	<2	<2	--
12/13/02	--	<100	<2	<2	17	<2	<2	--
03/01/03	--	19	<0.5	<0.5	8	<0.5	<0.5	--
06/27/03	--	22	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<100	<10	<1	<1	9	<1	<1	--
12/03/03	<50	18	<0.5	<0.5	5	<0.5	<0.5	--
03/10/04	<50	11	<0.5	<0.5	4	<0.5	<0.5	--
06/30/04	<100	<10	<1	<1	6	<1	<1	--
09/30/04	<50	17	<0.5	<0.5	7	<0.5	<0.5	--
12/31/04	<50	11	<0.5	<0.5	2	<0.5	<0.5	--
03/23/05	<50	<5	<0.5	<0.5	1	<0.5	0.9	--
06/22/05	<50	15	<0.5	<0.5	1	<0.5	<0.5	--
09/02/05	<50	6	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05	<50	11	<0.5	<0.5	1	<0.5	<0.5	--

Table 3
Additional Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
MW-4 (cont)								
03/20/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/11/06	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED								

Table 3
Additional Groundwater Analytical Results
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

EXPLANATIONS:

Current groundwater monitoring data was provided by Gettler-Ryan Inc. Current laboratory analytical results were provided by Eurofins Lancaster Laboratories

TBA = Tertiary-Butyl Alcohol

DIPE = Di-Isopropyl Ether

EtBE = Ethyl Tertiary-Butyl Ether

TAME = Tertiary-Amyl Methyl Ether

1,2-DCA = 1,2-Dichloroethane

1,2-DBA = 1,2-Dibromoethane

PCE = Tetrachloroethene

(µg/L) = Micrograms per liter

-- = Not Analyzed

EPA = Environmental Protection Agency

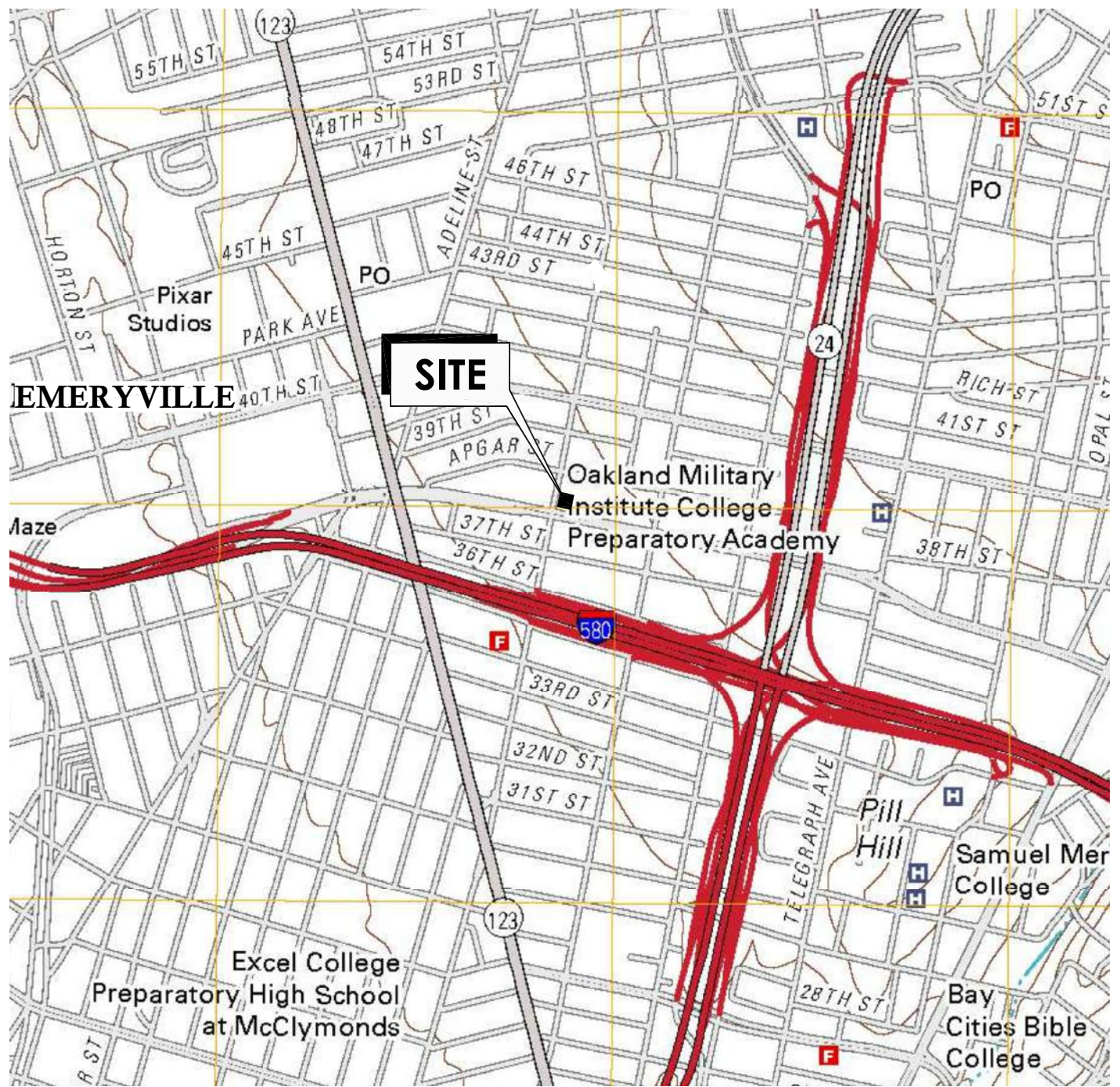
ANALYTICAL METHOD:

EPA Method 8260 for Oxygenate Compounds

¹ Laboratory confirmed analytical result.

² Laboratory report indicates reporting limits were raised due to interference from the sample matrix.

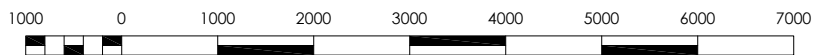
FIGURES



CALIFORNIA



SCALE IN MILES



SCALE IN FEET

REFERENCE: USGS 7.5 MINUTE QUADRANGLE; OAKLAND WEST, CALIFORNIA; 2012



15575 Los Gatos Blvd, Building C
Los Gatos, CA 95032

Phone: (408) 356-6124 Fax: (408) 356-6138

FOR:
FORMER CHEVRON-BRANDED
SERVICE STATION 92029
890 WEST MACARTHUR BOULEVARD
OAKLAND, CALIFORNIA

JOB NUMBER:
211602398

DRAWN BY:
JRO

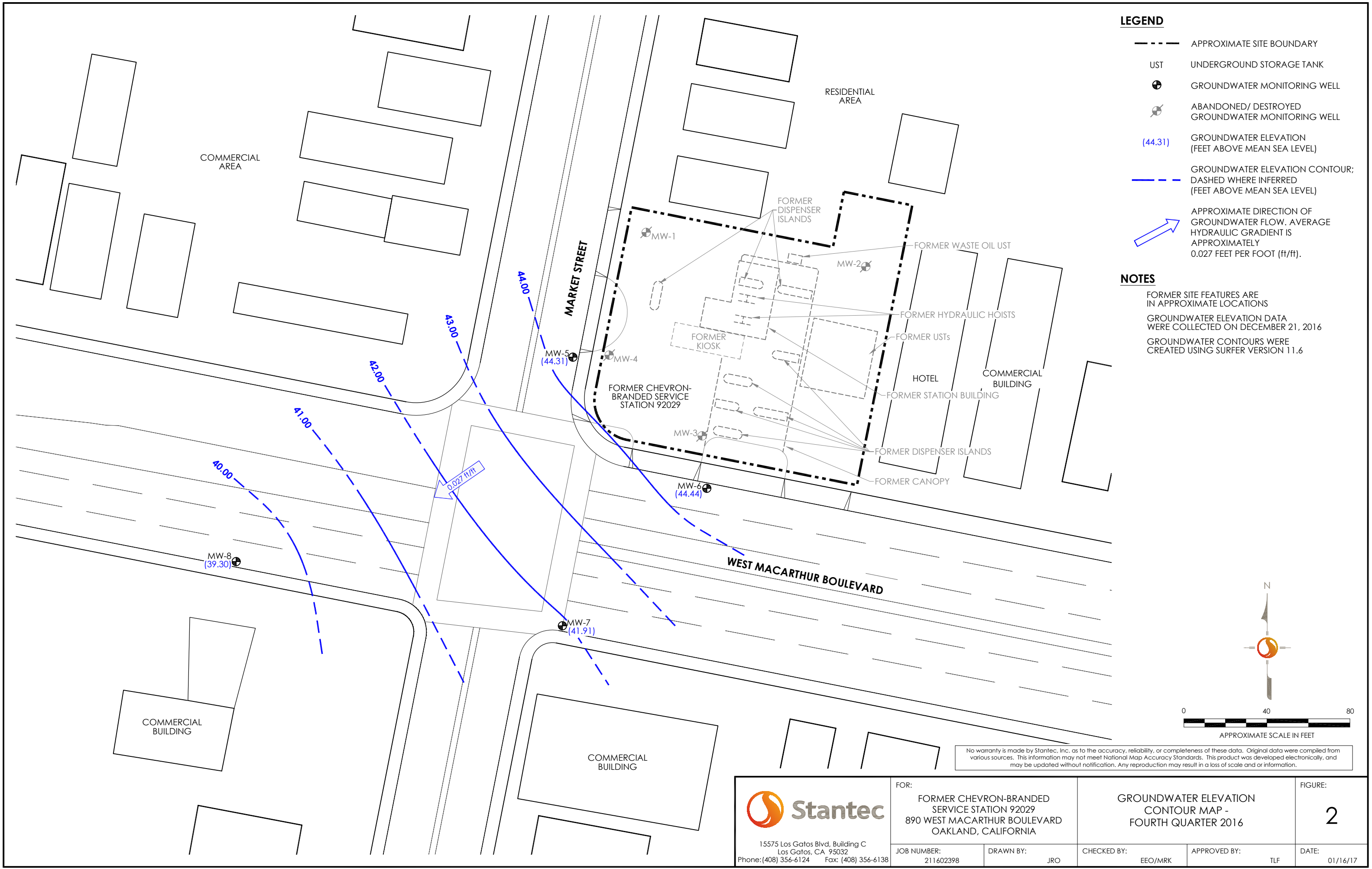
CHECKED BY:
EEO/MRK

APPROVED BY:
TLF

FIGURE:

1

DATE:
01/16/17

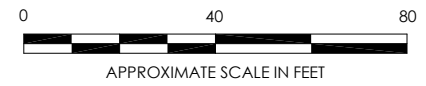


LEGEND


- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- (44.31) GROUNDWATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)
- GROUNDWATER ELEVATION CONTOUR; DASHED WHERE INFERRED (FEET ABOVE MEAN SEA LEVEL)
- ➔ APPROXIMATE DIRECTION OF GROUNDWATER FLOW. AVERAGE HYDRAULIC GRADIENT IS APPROXIMATELY 0.027 FEET PER FOOT (ft/ft).

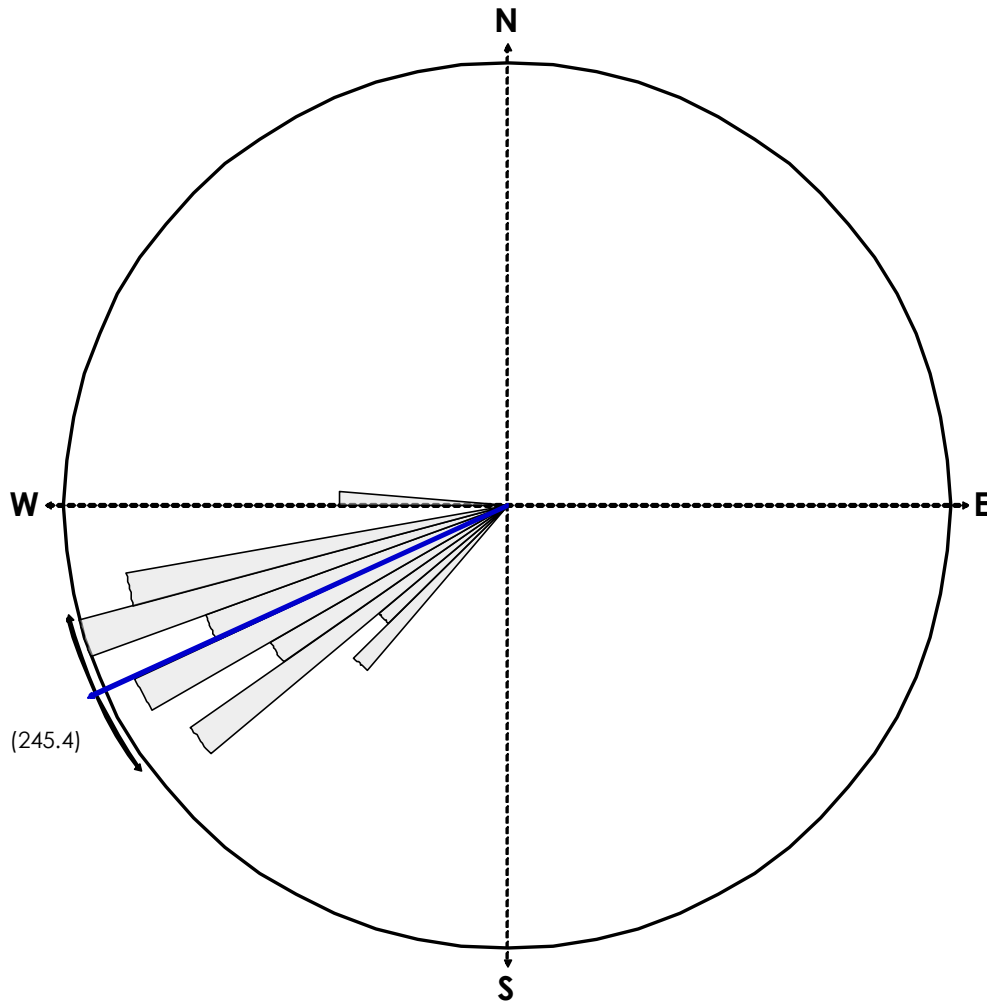
NOTES

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS
 GROUNDWATER ELEVATION DATA WERE COLLECTED ON DECEMBER 21, 2016
 GROUNDWATER CONTOURS WERE CREATED USING SURFER VERSION 11.6



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 15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA	GROUNDWATER ELEVATION CONTOUR MAP - FOURTH QUARTER 2016			FIGURE: 2
	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 01/16/17

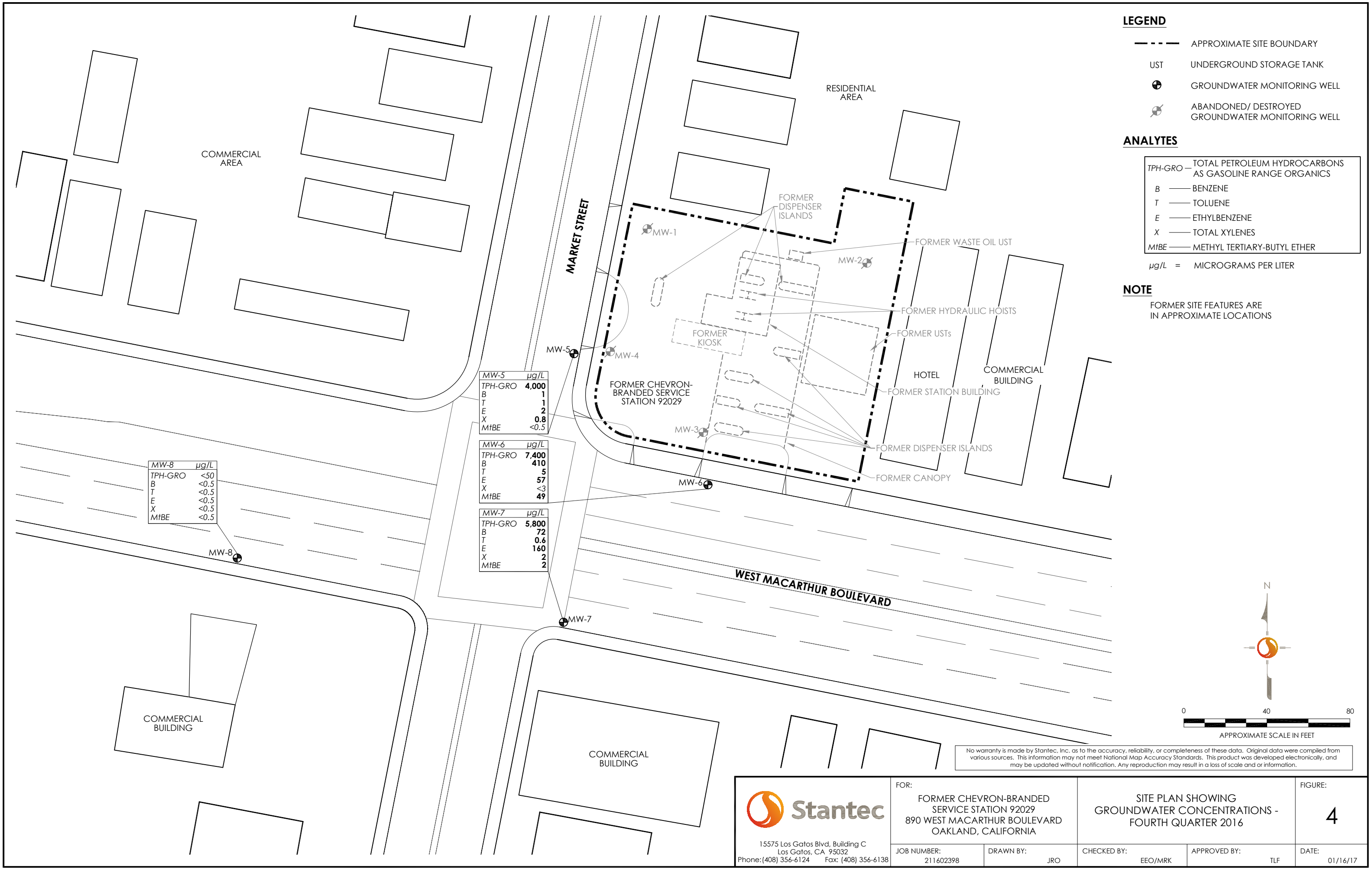


EQUAL AREA PLOT

Number of Points 38
 Class Size 5
 Vector Mean 245.38
 Vector Magnitude 37.28
 Consistency Ratio 0.98

NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING FIRST QUARTER 2002.

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	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 01/16/17



LEGEND

- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL

ANALYTES

- TPH-GRO — TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS
- B — BENZENE
- T — TOLUENE
- E — ETHYLBENZENE
- X — TOTAL XYLENES
- MtBE — METHYL TERTIARY-BUTYL ETHER
- µg/L = MICROGRAMS PER LITER

NOTE

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

MW-5	µg/L
TPH-GRO	4,000
B	1
T	1
E	2
X	0.8
MtBE	<0.5

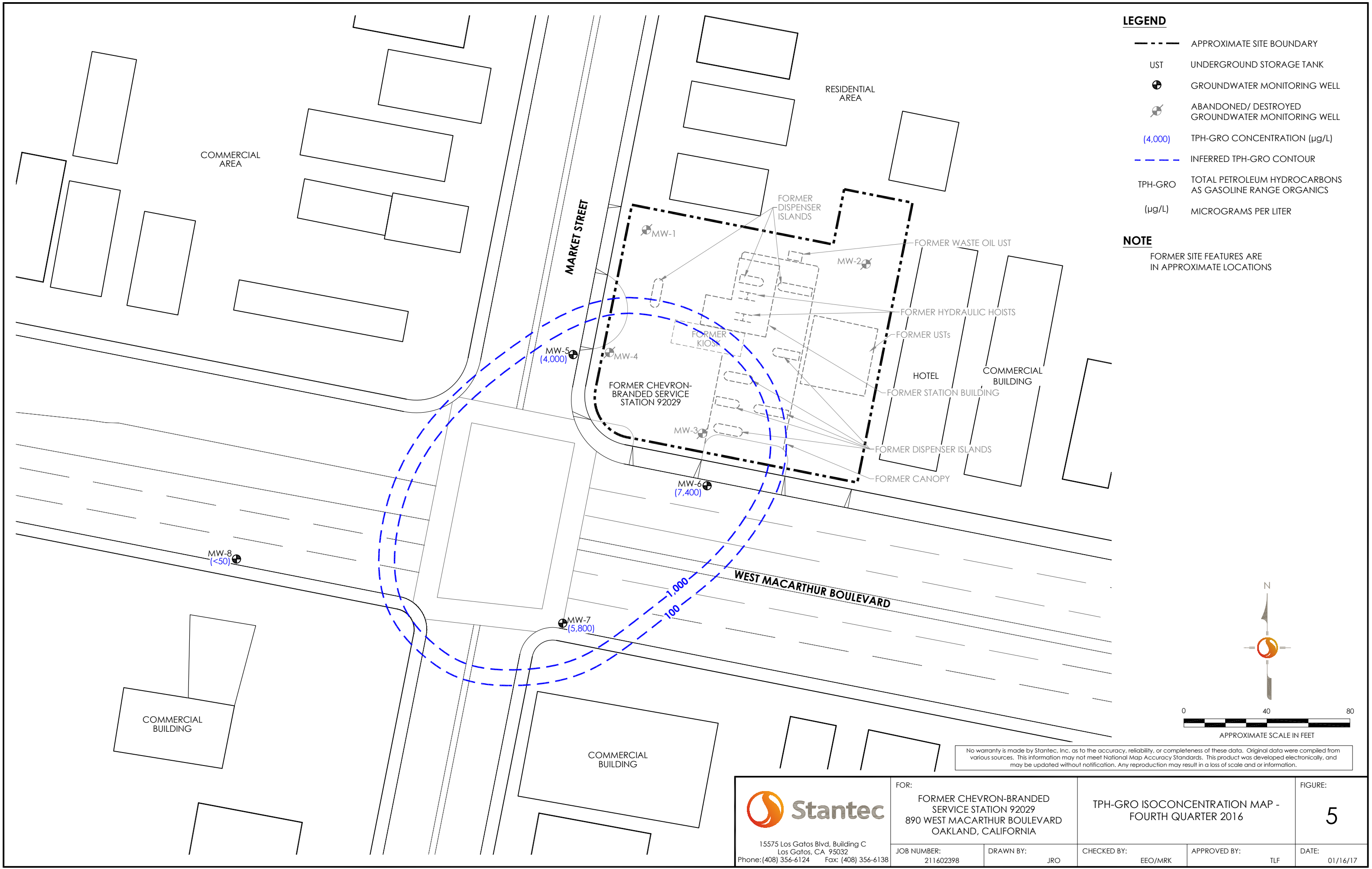
MW-6	µg/L
TPH-GRO	7,400
B	410
T	5
E	57
X	<3
MtBE	49

MW-7	µg/L
TPH-GRO	5,800
B	72
T	0.6
E	160
X	2
MtBE	2

MW-8	µg/L
TPH-GRO	<50
B	<0.5
T	<0.5
E	<0.5
X	<0.5
MtBE	<0.5

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	<p>JOB NUMBER: 211602398</p>	<p>DRAWN BY: JRO</p>	<p>CHECKED BY: EEO/MRK</p>	<p>APPROVED BY: TLF</p>	<p>DATE: 01/16/17</p>

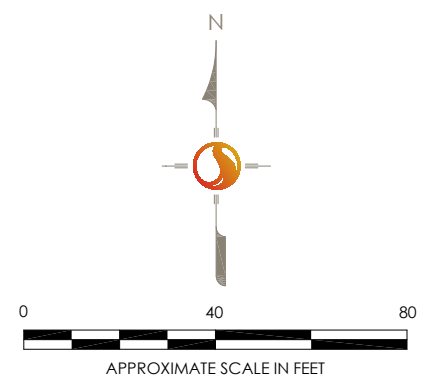


LEGEND


- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊗ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- (4,000) TPH-GRO CONCENTRATION (µg/L)
- - - INFERRED TPH-GRO CONTOUR
- TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
- MICROGRAMS PER LITER

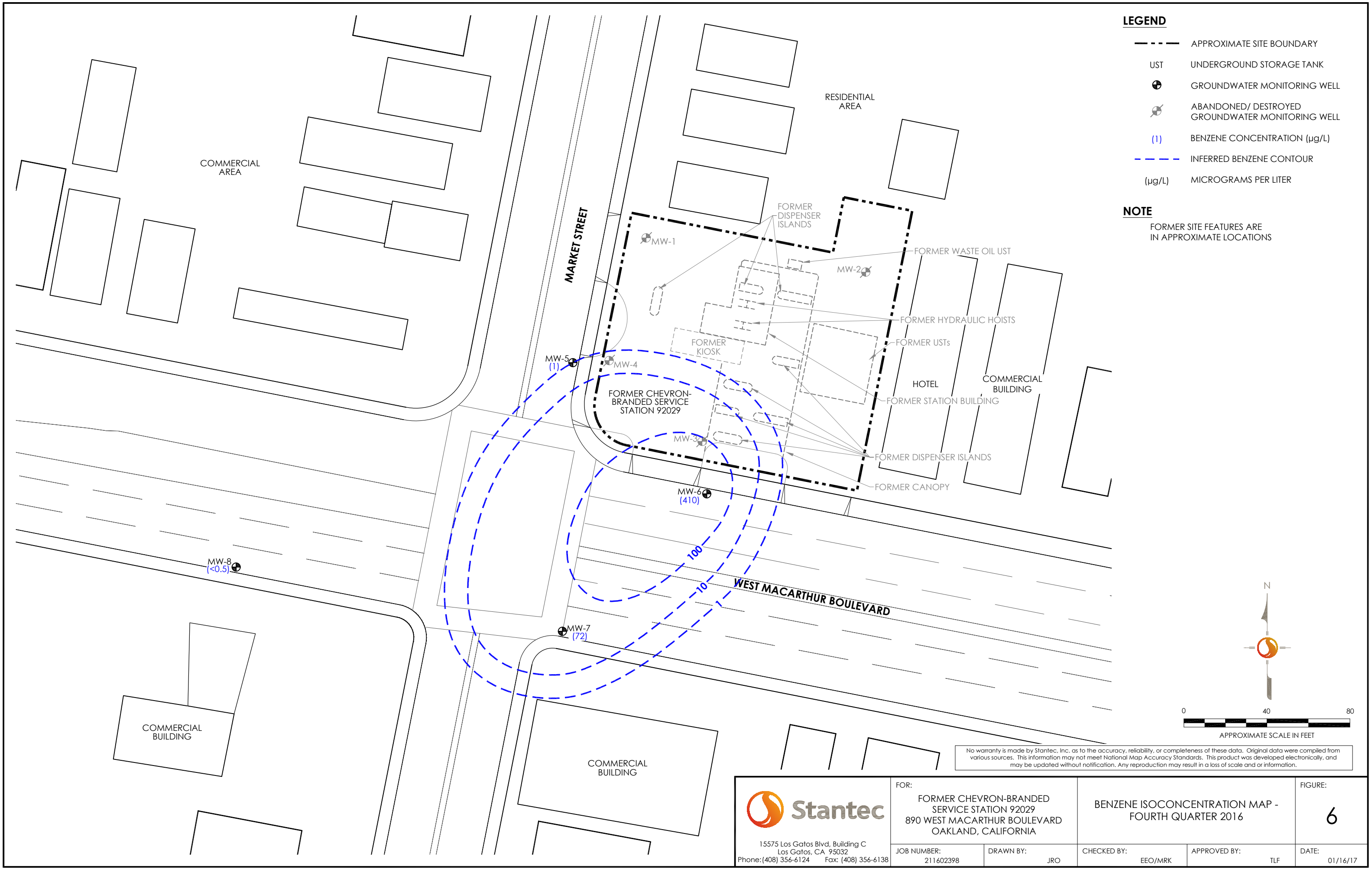
NOTE

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS



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	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 01/16/17

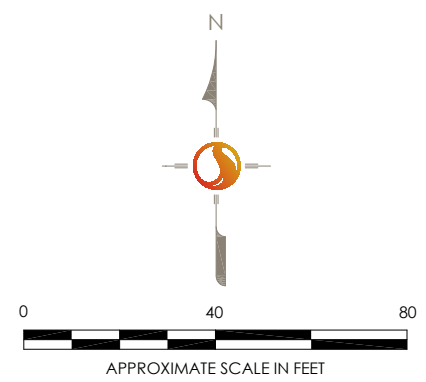


LEGEND


- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊗ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- (1) BENZENE CONCENTRATION (µg/L)
- - - INFERRED BENZENE CONTOUR (µg/L)
- MICROGRAMS PER LITER

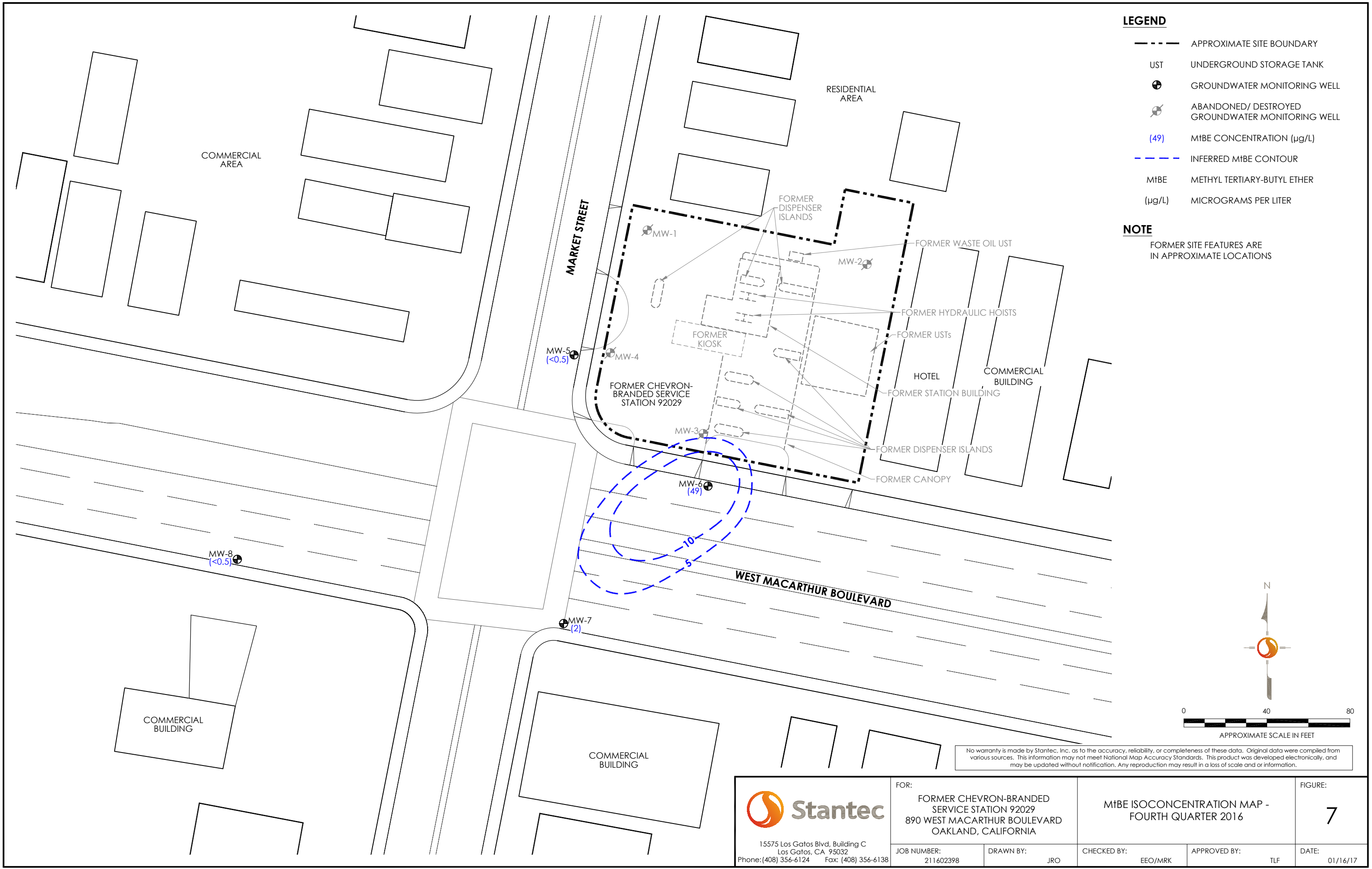
NOTE

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS



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	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: TLF	DATE: 01/16/17




LEGEND

- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- ⊕ GROUNDWATER MONITORING WELL
- ⊗ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- (49) MtBE CONCENTRATION (µg/L)
- - - INFERRED MtBE CONTOUR
- MtBE METHYL TERTIARY-BUTYL ETHER
- (µg/L) MICROGRAMS PER LITER

NOTE

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS

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 <p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138</p>	<p>FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA</p>	<p>MtBE ISOCONCENTRATION MAP - FOURTH QUARTER 2016</p>			<p>FIGURE: 7</p>
	<p>JOB NUMBER: 211602398</p>	<p>DRAWN BY: JRO</p>	<p>CHECKED BY: EEO/MRK</p>	<p>APPROVED BY: TLF</p>	<p>DATE: 01/16/17</p>

ATTACHMENT A

**Gettler-Ryan Inc. Field Data Sheets and Standard
Operating Procedures – Fourth Quarter 2016**



TRANSMITTAL

December 30, 2016
G-R #386911

TO: Mr. Travis Flora
Stantec
15575 Los Gatos Blvd., Building C
Los Gatos, California 95032

FROM: Deanna L. Harding
Project Coordinator
Gettler-Ryan Inc.
6805 Sierra Court, Suite G
Dublin, California 94568

**RE: Former Chevron Service Station
#9-2029
890 West MacArthur Blvd.
Oakland, California
RO 0002438**

WE HAVE ENCLOSED THE FOLLOWING:

COPIES	DESCRIPTION
VIA PDF	Groundwater Monitoring and Sampling Data Package Annual Event of December 21, 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.

WELL CONDITION STATUS SHEET

Client/Facility #: Chevron #9-2029
 Site Address: 890 West Macarthur Blvd.
 City: Oakland, CA

Job # 386911
 Event Date: 12.21.16
 Sampler: FR

WELL ID	Vault Frame Condition	Gasket/O-Ring (M)missing	BOLTS (M) Missing (R) Replaced	Bolt Flanges B= Broken S= Stripped R=Retap	APRON Condition C=Cracked B=Broken G=Gone	Grout Seal (Deficient) inches from TOC	Casing (Condition prevents tight cap seal)	REPLACE LOCK Y <input checked="" type="checkbox"/> N	REPLACE CAP Y <input checked="" type="checkbox"/> N	WELL VAULT Manufacture/Size/ # of Bolts	Pictures Taken Yes / <input checked="" type="checkbox"/> No
MW5	OK						→			Moumison 6" x 2"	
MW6	OK						→	↓			
MW7	OK						→	↓			
MW8	OK						→	↓	↓		

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. Total well depths are measured annually.

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 #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 12.21.16 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW-5 Date Monitored: 12.21.16
 Well Diameter: 2 in.
 Total Depth: 24.98 ft.
 Depth to Water: 5.08 ft. Check if water column is less than 0.50 ft.
19.90 xVF .17 = 3.38 x3 case volume = Estimated Purge Volume: 10.0 gal.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 9.06

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

Purge Equipment:

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

Sampling Equipment:

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

Time Started:	_____ (2400 hrs)
Time Completed:	_____ (2400 hrs)
Depth to Product:	_____ ft
Depth to Water:	_____ ft
Hydrocarbon Thickness:	_____ ft
Visual Confirmation/Description:	_____
Skimmer / Absorbent Sock (circle one)	<input checked="" type="checkbox"/>
Amt Removed from Skimmer:	_____ ltr
Amt Removed from Well:	_____ ltr
Water Removed:	_____ ltr

Start Time (purge): 1115 Weather Conditions: Sunny
 Sample Time/Date: 1136 / 12.21.16 Water Color: CLEAN Odor: Ø / N
 Approx. Flow Rate: ≈ 1.0 gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 8.95

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1119</u>	<u>3.5</u>	<u>7.47</u>	<u>725</u>	<u>17.7</u>	_____	_____
<u>1123</u>	<u>7.0</u>	<u>7.50</u>	<u>733</u>	<u>18.0</u>	_____	_____
<u>1126</u>	<u>10.0</u>	<u>7.53</u>	<u>741</u>	<u>18.4</u>	_____	_____

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-5</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

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 #9-2029
 Site Address: 890 West Macarthur Blvd.
 City: Oakland, CA

Job Number: 386911
 Event Date: 12-21-16 (inclusive)
 Sampler: FT

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 24.96 ft.
 Depth to Water: 4.63 ft.

Date Monitored: 12-21-16

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

Check if water column is less than 0.50 ft.

20.33 xVF .17 = 3.45 x3 case volume = Estimated Purge Volume: 10.0 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 _____
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1230
 Sample Time/Date: 1251 / 12-21-16
 Approx. Flow Rate: 1.0 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: CLEAR Odor: 0 / N
 Sediment Description: NONE
 DTW @ Sampling: 8.62

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (US mS umhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>1234</u>	<u>3.5</u>	<u>7.32</u>	<u>820</u>	<u>19.6</u>	<u>/</u>	<u>/</u>
<u>1238</u>	<u>7.0</u>	<u>7.35</u>	<u>827</u>	<u>19.8</u>	<u>/</u>	<u>/</u>
<u>1241</u>	<u>10.0</u>	<u>7.37</u>	<u>835</u>	<u>20.1</u>	<u>/</u>	<u>/</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-6</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

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 #9-2029
 Site Address: 890 West Macarthur Blvd.
 City: Oakland, CA

Job Number: 386911
 Event Date: 12-21-16 (inclusive)
 Sampler: Fr

Well ID: MW-7
 Well Diameter: 2 in.
 Total Depth: 24.87 ft.
 Depth to Water: 6.83 ft.

Date Monitored: 12-21-16

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 than 0.50 ft.

18.04 xVF .0 = 3.06 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.43

Purge Equipment:
 Disposable Bailer _____
 Stainless Steel Bailer _____
 Stack Pump ✓
 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: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1155
 Sample Time/Date: 1214 / 12-21-16
 Approx. Flow Rate: ≥ 1.0 gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal.

Weather Conditions: SUNNY
 Water Color: CLEAN Odor: ⊕ / N
 Sediment Description: NONE
 DTW @ Sampling: 9.82

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (⊕) / mS μmhos/cm	Temperature (⊕ / F)	D.O. (mg/L)	ORP (mV)
<u>1158</u>	<u>3.0</u>	<u>7.35</u>	<u>735</u>	<u>19.4</u>	<u>/</u>	<u>/</u>
<u>1201</u>	<u>6.0</u>	<u>7.37</u>	<u>742</u>	<u>19.7</u>	<u>/</u>	<u>/</u>
<u>1204</u>	<u>9.0</u>	<u>7.40</u>	<u>750</u>	<u>20.0</u>	<u>/</u>	<u>/</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-7</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

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 #9-2029 Job Number: 386911
 Site Address: 890 West Macarthur Blvd. Event Date: 12.21.16 (inclusive)
 City: Oakland, CA Sampler: PT

Well ID: MW-8 Date Monitored: 12.21.16

Well Diameter: 2 in.

Total Depth: 25.01 ft.

Depth to Water: 8.31 ft.

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

Check if water column is less than 0.50 ft.

16.70 xVF .17 = 2.83 x3 case volume = Estimated Purge Volume: 9.0 gal.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 11.65

Purge Equipment:

Disposable Bailer _____
 Stainless Steel Bailer /
 Stack Pump _____
 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 / Adsorbant Sock (circle one)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1306 Weather Conditions: Sunny
 Sample Time/Date: 1325 / 12.21.16 Water Color: LT. BRN. Odor: Y / @
 Approx. Flow Rate: ~ 1.0 gpm. Sediment Description: S. SILTY
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 10.56

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS / mS µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1309</u>	<u>3.0</u>	<u>7.25</u>	<u>629</u>	<u>20.1</u>	<u>/</u>	<u>/</u>
<u>1312</u>	<u>6.0</u>	<u>7.29</u>	<u>635</u>	<u>20.3</u>	<u>/</u>	<u>/</u>
<u>1315</u>	<u>9.0</u>	<u>7.30</u>	<u>641</u>	<u>20.6</u>	<u>/</u>	<u>/</u>

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6</u> x voa vial	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)</u>

COMMENTS: _____

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

Chevron California Region Analysis Request/Chain of Custody



**Lancaster Laboratories
Environmental**

For Eurofins Lancaster Laboratories Environmental use only

Acct. # _____ Group # _____ Sample # _____
Instructions on reverse side correspond with circled numbers.

122116-2

10f1

Client Information				Matrix			Analyses Requested										SCR #: _____			
Facility # SS19-2029-OML G-R#386911 Global ID#T0600173887 Site Address 890 WEST MACARTHUR BLVD., OAKLAND, CA Chevron PM CM STANTECTF Lead Consultant Flora 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				Sediment <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> Potable <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> NPDES <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> Air <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			Total Number of Containers _____ BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan _____ Oxygenates _____ Total Lead Method _____ Dissolved Lead Method _____											<input type="checkbox"/> Results in Dry Weight <input type="checkbox"/> J value reporting needed <input checked="" type="checkbox"/> Must meet lowest detection limits possible for 8260 compounds <input type="checkbox"/> 8021 MTBE Confirmation <input type="checkbox"/> Confirm highest hit by 8260 <input type="checkbox"/> Confirm all hits by 8260 <input type="checkbox"/> Run _____ oxy's on highest hit <input type="checkbox"/> Run _____ oxy's on all hits		
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	8260	TPH-GRO 8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method		Dissolved Lead Method	Remarks
		Date	Time																	
QA		16.12.21					W		2	X	X									
MW-5			1136	X					6	X	X									
MW-6			1251	X					6	X	X									
MW-7			1214	X					6	X	X									
MW-8			1325	X					6	X	X									

Turnaround Time Requested (TAT) (please circle) Standard 5 day 4 day 72 hour 48 hour 24 hour	Relinquished by _____	Date 16.12.21	Time	Received by _____	Date 21 DEC 16	Time 1435
	Relinquished by _____	Date	Time	Received by _____	Date	Time
Data Package (circle if required) EDF/EDD Type I - Full Type VI (Raw Data)	Relinquished by _____	Date	Time	Received by _____	Date	Time
	Relinquished by Commercial Carrier: UPS _____ FedEx _____ Other _____			Received by _____		Date
EDD (circle if required) EDFFLAT (default) Other: _____	Temperature Upon Receipt _____ °C			Custody Seals Intact? Yes No		

ATTACHMENT B
Certified Laboratory Analysis Reports and
Chain-of-Custody Documents

ANALYTICAL RESULTS

Prepared by:

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

Prepared for:

Chevron
6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Report Date: January 03, 2017

Project: 92029

Submittal Date: 12/22/2016
Group Number: 1747731
PO Number: 0015188594
Release Number: CMACLEOD
State of Sample Origin: CA

Client Sample Description

	Lancaster Labs (LL) #
QA-T-161221 NA Water	8759443
MW-5-W-161221 Grab Groundwater	8759444
MW-6-W-161221 Grab Groundwater	8759445
MW-7-W-161221 Grab Groundwater	8759446
MW-8-W-161221 Grab Groundwater	8759447

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 current scopes of accreditation can be viewed at <http://www.eurofinsus.com/environment-testing/laboratories/eurofins-lancaster-laboratories-environmental/resources/certifications/>. To request copies of prior scopes of accreditation, contact your project manager.

Electronic Copy To Stantec International
Electronic Copy To Stantec
Electronic Copy To Stantec
Electronic Copy To Stantec
Electronic Copy To Gettler-Ryan Inc.

Attn: Travis Flora
Attn: Marisa Kaffenberger
Attn: Erin O'Malley
Attn: Laura Viesselman
Attn: Gettler Ryan

Respectfully Submitted,



Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-161221 NA Water
Facility# 92029 Job# 386911 GRD
890 W Macarthur-Oakland T0600173887

LL Sample # WW 8759443
LL Group # 1747731
Account # 10906

Project Name: 92029

Collected: 12/21/2016

Chevron

Submitted: 12/22/2016 12:00

6001 Bollinger Canyon Rd L4310

Reported: 01/03/2017 14:05

San Ramon CA 94583

QAMBO

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	Methyl Tertiary Butyl Ether	1634-04-4	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

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/MTBE	SW-846 8260B	1	D170031AA	01/03/2017 08:37	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 08:37	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 11:37	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 11:37	Brett W Kenyon	1

Sample Description: MW-5-W-161221 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W Macarthur-Oakland T0600173887

LL Sample # WW 8759444
LL Group # 1747731
Account # 10906

Project Name: 92029

Collected: 12/21/2016 11:36 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 01/03/2017 14:05

M5MBO

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	1	0.5	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	N.D.	0.5	1
10945	Toluene	108-88-3	1	0.5	1
10945	Xylene (Total)	1330-20-7	0.8	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	4,000	250	5

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/MTBE	SW-846 8260B	1	D170031AA	01/03/2017 08:59	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 08:59	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 18:07	Brett W Kenyon	5
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 18:07	Brett W Kenyon	5

Sample Description: MW-6-W-161221 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W Macarthur-Oakland T0600173887

LL Sample # WW 8759445
LL Group # 1747731
Account # 10906

Project Name: 92029

Collected: 12/21/2016 12:51 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 01/03/2017 14:05

M6MBO

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	410	3	5
10945	Ethylbenzene	100-41-4	57	3	5
10945	Methyl Tertiary Butyl Ether	1634-04-4	49	3	5
10945	Toluene	108-88-3	5	3	5
10945	Xylene (Total)	1330-20-7	N.D.	3	5
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	7,400	500	10

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/MTBE	SW-846 8260B	1	D170031AA	01/03/2017 10:30	Anita M Dale	5
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 10:30	Anita M Dale	5
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 18:34	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 18:34	Brett W Kenyon	10

Sample Description: MW-7-W-161221 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W Macarthur-Oakland T0600173887

LL Sample # WW 8759446
LL Group # 1747731
Account # 10906

Project Name: 92029

Collected: 12/21/2016 12:14 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 01/03/2017 14:05

M7MBO

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	72	0.5	1
10945	Ethylbenzene	100-41-4	160	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10945	Toluene	108-88-3	0.6	0.5	1
10945	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.	5,800	500	10

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/MTBE	SW-846 8260B	1	D170031AA	01/03/2017 10:52	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 10:52	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 19:02	Brett W Kenyon	10
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 19:02	Brett W Kenyon	10

Sample Description: MW-8-W-161221 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W Macarthur-Oakland T0600173887

LL Sample # WW 8759447
LL Group # 1747731
Account # 10906

Project Name: 92029

Collected: 12/21/2016 13:25 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 12/22/2016 12:00

Reported: 01/03/2017 14:05

M8MBO

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	Methyl Tertiary Butyl Ether	1634-04-4	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

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/MTBE	SW-846 8260B	1	D170031AA	01/03/2017 11:15	Anita M Dale	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D170031AA	01/03/2017 11:15	Anita M Dale	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	16363A53A	12/28/2016 12:33	Brett W Kenyon	1
01146	GC VOA Water Prep	SW-846 5030B	1	16363A53A	12/28/2016 12:33	Brett W Kenyon	1

Quality Control Summary

Client Name: Chevron
Reported: 01/03/2017 14:05

Group Number: 1747731

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: D170031AA	Sample number(s): 8759443-8759447	
Benzene	N.D.	0.5
Ethylbenzene	N.D.	0.5
Methyl Tertiary Butyl Ether	N.D.	0.5
Toluene	N.D.	0.5
Xylene (Total)	N.D.	0.5
Batch number: 16363A53A	Sample number(s): 8759443-8759447	
TPH-GRO N. CA water C6-C12	N.D.	50

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: D170031AA	Sample number(s): 8759443-8759447								
Benzene	20	20.88			104		78-120		
Ethylbenzene	20	20.25			101		78-120		
Methyl Tertiary Butyl Ether	20	21.11			106		75-120		
Toluene	20	20.93			105		80-120		
Xylene (Total)	60	61.43			102		80-120		
	ug/l	ug/l	ug/l	ug/l					
Batch number: 16363A53A	Sample number(s): 8759443-8759447								
TPH-GRO N. CA water C6-C12	1100	1044.61	1100	1076.22	95	98	77-120	3	30

MS/MSD

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

Analysis Name	Unspiked Conc	MS Spike Added	MS Conc	MSD Spike Added	MSD Conc	MS %Rec	MSD %Rec	MS/MSD Limits	RPD	RPD Max
	ug/l	ug/l	ug/l	ug/l	ug/l					
Batch number: D170031AA	Sample number(s): 8759443-8759447 UNSPK: 8759444									
Benzene	1.12	20	20.78	20	21.88	98	104	78-120	5	30

*- Outside of specification

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

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: 01/03/2017 14:05

Group Number: 1747731

MS/MSD (continued)

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
Ethylbenzene	2.22	20	21.91	20	23.7	98	107	78-120	8	30
Methyl Tertiary Butyl Ether	N.D.	20	17.5	20	19.14	87	96	75-120	9	30
Toluene	1.18	20	20.56	20	21.88	97	104	80-120	6	30
Xylene (Total)	0.755	60	59.97	60	64.01	99	105	80-120	7	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/MTBE
Batch number: D170031AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
8759443	106	100	99	95
8759444	105	99	99	102
8759445	102	100	100	98
8759446	103	100	99	100
8759447	102	100	99	95
Blank	105	98	97	96
LCS	104	99	98	96
MS	102	99	99	102
MSD	103	101	98	101
Limits:	80-116	77-113	80-113	78-113

Analysis Name: TPH-GRO N. CA water C6-C12
Batch number: 16363A53A

	Trifluorotoluene-F
8759443	98
8759444	105
8759445	95
8759446	96
8759447	99
Blank	117
LCS	104
LCSD	106
Limits:	63-135

*- 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



Lancaster Laboratories
Environmental

Acct. # 10906

For Eurofins Lancaster Laboratories Environmental Use only
Group # 1747731 Sample # 8159443-47
Instructions on reverse side correspond with circled numbers.

122116-2

1081

Client Information				Matrix			Analyses Requested											
Facility # SS#9-2029-OML G-R#386911 Global ID# WT0600173887				<input type="checkbox"/> Sediment <input checked="" type="checkbox"/> Ground <input type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air	Total Number of Containers BTEX + MTBE 8021 <input type="checkbox"/> 8260 <input checked="" type="checkbox"/> TPH-GRO 8015 <input checked="" type="checkbox"/> 8260 <input type="checkbox"/> TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/> TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/> 8260 Full Scan	Oxygenates Total Lead Method _____ Dissolved Lead Method _____												
Site Address 890 WEST MACARTHUR BLVD., OAKLAND, CA																		
Chevron PM CM		Lead Consultant STANTECTF Flora																
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 T.																		
Sample Identification	Soil Depth	Collected		Grab	Composite	Soil	Water	Oil	Total Number of Containers	BTEX + MTBE 8021	TPH-GRO 8015	TPH-DRO 8015 without Silica Gel Cleanup	TPH-DRO 8015 with Silica Gel Cleanup	8260 Full Scan	Oxygenates	Total Lead Method	Dissolved Lead Method	Remarks
		Date	Time															
QA							W		2	X	X							
		16.12.21																
MW-5			1136	X					6	X	X							
MW-6			1251	X					6	X	X							
MW-7			1214	X					6	X	X							
MW-8			1325	X					6	X	X							

SCR #: _____

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

Turnaround Time Requested (TAT) (please circle) (Standard) 5 day 4 day 72 hour 48 hour 24 hour			Relinquished by <i>[Signature]</i> Date <u>16.12.21</u> Time _____ Received by <i>[Signature]</i> Date <u>21 DEC 16</u> Time <u>1435</u>	
Data Package (circle if required) EDF/EDD Type I - Full Type VI (Raw Data)			Relinquished by <i>[Signature]</i> Date <u>21 DEC 16</u> Time <u>1630</u> Received by <i>[Signature]</i>	
EDD (circle if required) EDFFLAT (default) Other: _____			Relinquished by Commercial Carrier: UPS _____ FedEx <u>1</u> Other _____ Received by <i>[Signature]</i> Date <u>12/22/16</u> Time <u>12:00</u>	
			Temperature Upon Receipt <u>0.6</u> °C Custody Seals Intact? <u>(Yes)</u> No	

Client: Chevron

Delivery and Receipt Information

Delivery Method:	<u>BASC</u>	Arrival Timestamp:	<u>12/22/2016 12:00</u>
Number of Packages:	<u>1</u>	Number of Projects:	<u>1</u>
State/Province of Origin:	<u>CA</u>		

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 \geq 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 Porsha Hill (12046) at 13:39 on 12/22/2016

Samples Chilled Details

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

<u>Cooler #</u>	<u>Thermometer ID</u>	<u>Corrected Temp</u>	<u>Therm. Type</u>	<u>Ice Type</u>	<u>Ice Present?</u>	<u>Ice Container</u>	<u>Elevated Temp?</u>
1	DT121	0.6	DT	Wet	Y	Bagged	N

Explanation of Symbols and Abbreviations

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

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

- C - Result confirmed by reanalysis
- E - Concentration exceeds the calibration range
- J (or G, I, X) - estimated value \geq 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...
- W - The dissolved oxygen uptake for the unseeded blank is greater than 0.20 mg/L.

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.

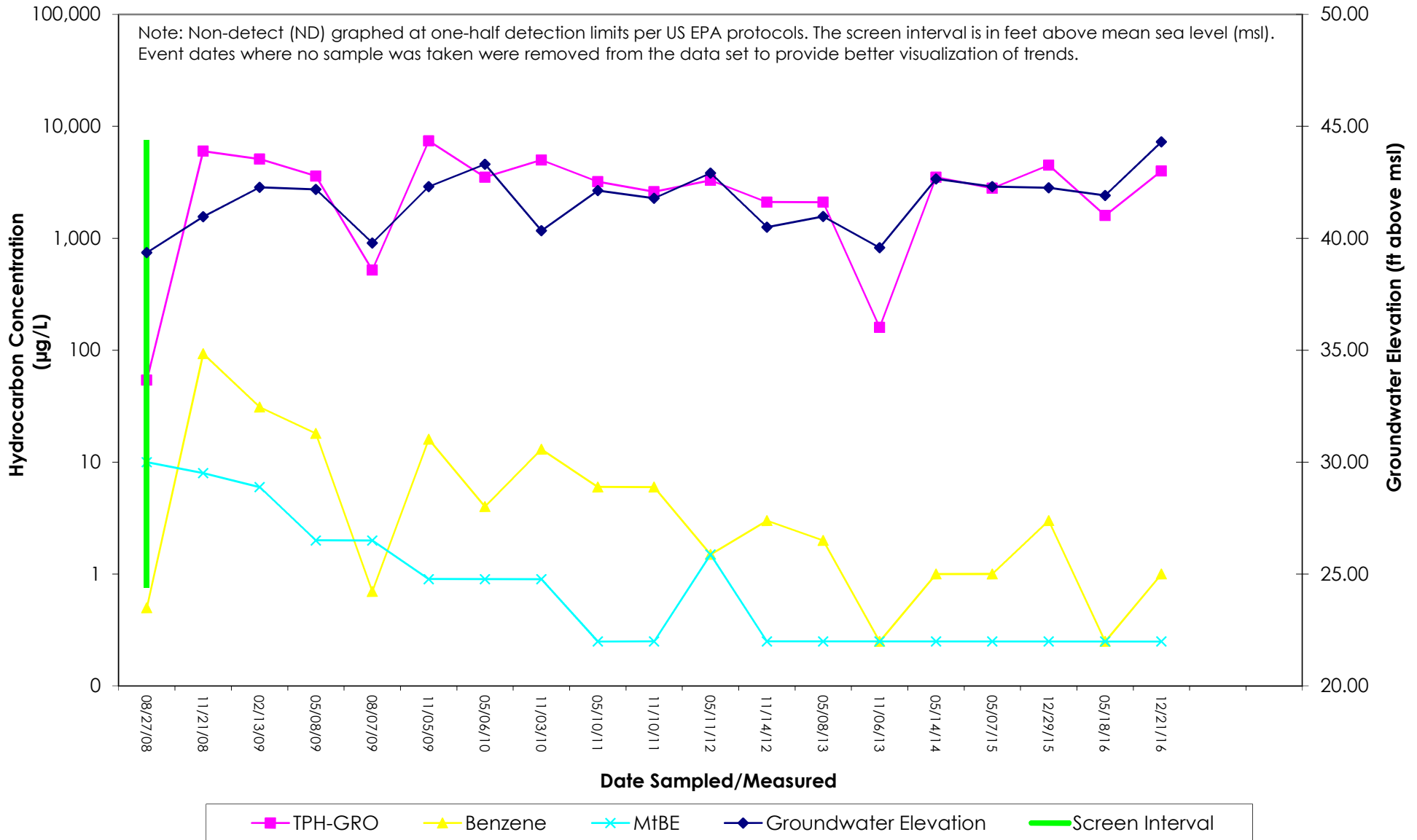
This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

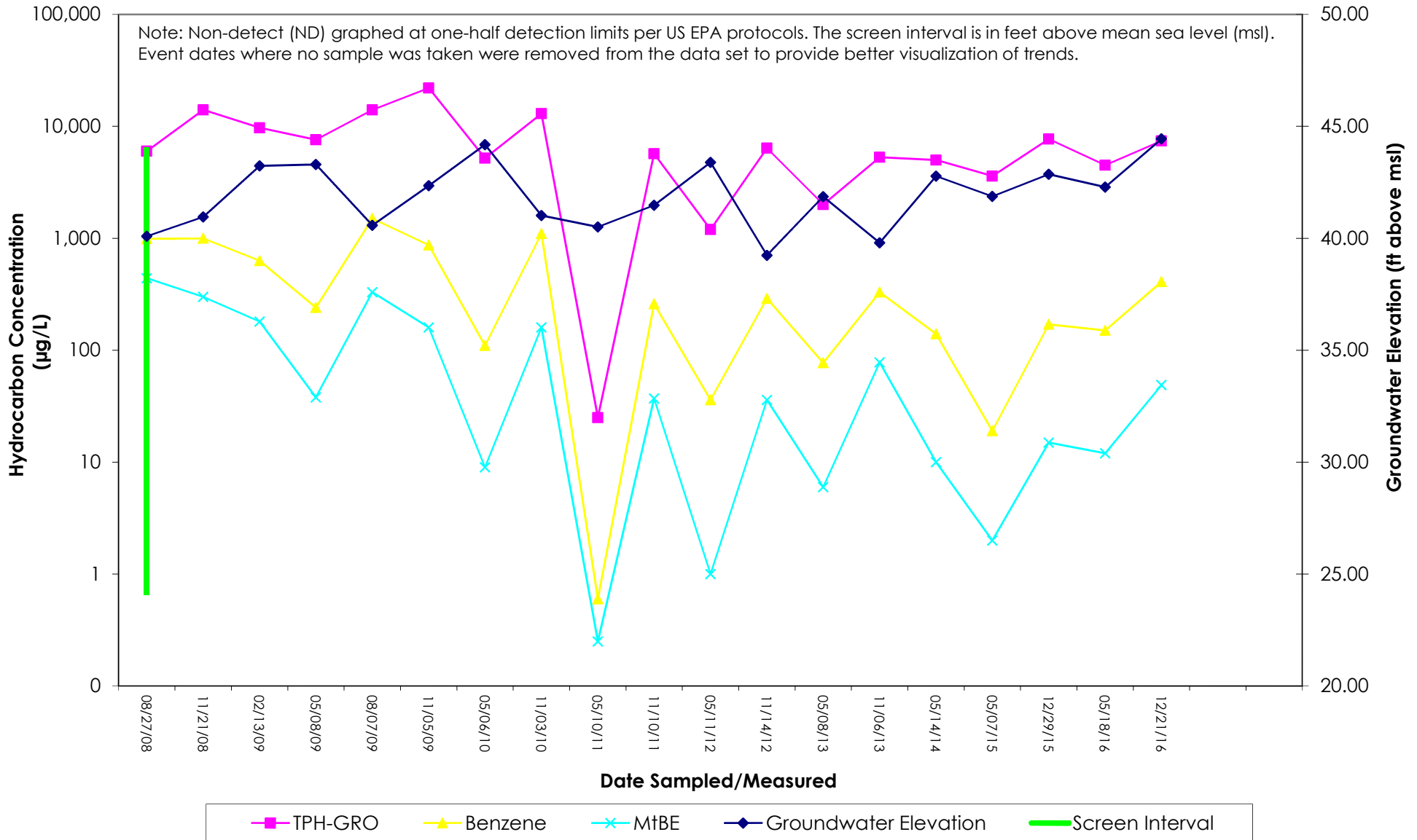
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ATTACHMENT C
Hydrographs

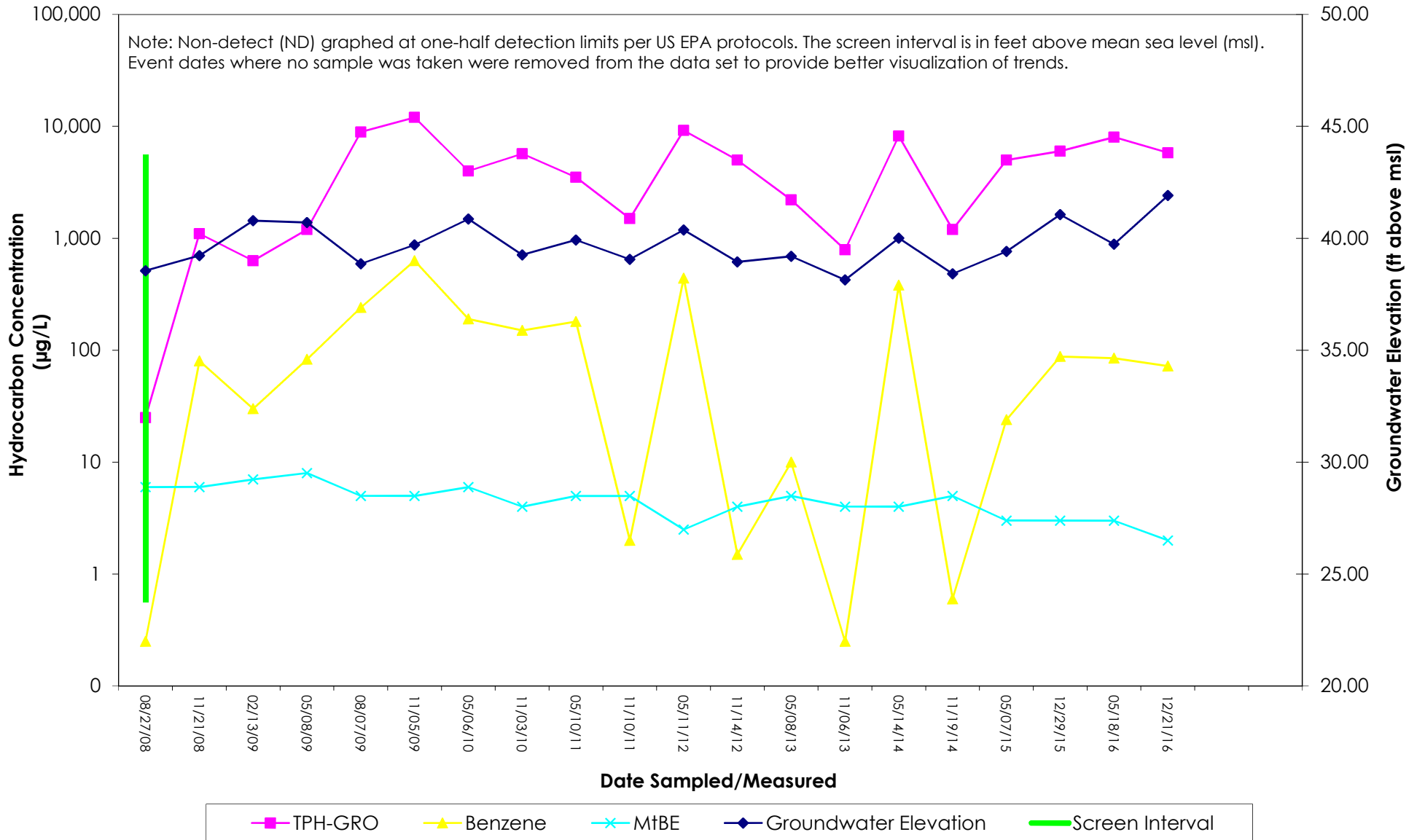
MW-5 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 92029
 890 West MacArthur Boulevard
 Oakland, California



MW-6 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 92029
 890 West MacArthur Boulevard
 Oakland, California



MW-7 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 92029
 890 West MacArthur Boulevard
 Oakland, California



MW-8 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 92029
 890 West MacArthur Boulevard
 Oakland, California

