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**Second Quarter 2015
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
6101 Bollinger Canyon Road
San Ramon, CA 94583

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

June 25, 2015



Carryl MacLeod
Project Manager
Marketing Business Unit

**Chevron Environmental
Management Company**
6101 Bollinger Canyon Road
San Ramon, CA 94583
Tel (925) 790-6506
CMacleod@chevron.com

June 25, 2015

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 *Second Quarter 2015 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 cursive script that reads "Carryl MacLeod".

Carryl MacLeod
Project Manager



June 25, 2015

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

Reference: **Second Quarter 2015 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 (Chevron), Stantec Consulting Services Inc. (Stantec) is pleased to submit the *Second Quarter 2015 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, Second Quarter 2015 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.

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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.

SECOND QUARTER 2015 GROUNDWATER MONITORING AND SAMPLING PROGRAM

Gettler-Ryan Inc. (G-R) performed the Second Quarter 2015 groundwater monitoring and sampling event on May 7, 2015. 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 this quarter. Sheen was noted in well MW-6 during sampling.

Investigation-derived waste (IDW) generated during the Second Quarter 2015 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**. All four Site wells are currently screened across the prevailing groundwater table. Current and historical groundwater elevation data are presented in **Table 2**. A groundwater elevation contour map (based on Second Quarter 2015 data) is shown on **Figure 2**. The direction of groundwater flow at the time of sampling was generally towards the southwest at an average hydraulic gradient of approximately 0.032 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). Benzene, toluene, ethylbenzene, and total xylenes (BTEX compounds) and fuel oxygenates (methyl *tertiary*-butyl ether [MtBE], di-isopropyl ether [DIPE], ethyl *tertiary*-butyl ether [EtBE], *tertiary*-amyl methyl ether [TAME], and *tertiary*-butyl alcohol [TBA]) were analyzed using US EPA Method 8260B (SW-846).

Groundwater Analytical Results

During Second Quarter 2015, 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**. An isoconcentration map was not developed for MtBE because concentrations were below California Regional Water Quality Control Board – San Francisco Bay Region Environmental Screening Levels (ESLs) for groundwater that is a current or potential source of drinking water or method detection limits (MDLs).

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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 Second Quarter 2015 groundwater analytical results follows:

- **TPH-GRO** was detected in three Site wells, at concentrations of 2,800 micrograms per liter ($\mu\text{g/L}$; well MW-5), 3,600 $\mu\text{g/L}$ (well MW-6), and 5,000 $\mu\text{g/L}$ (well MW-7), which are within historical limits for each respective well.
- **Benzene** was detected in three Site wells, at concentrations of 1 $\mu\text{g/L}$ (well MW-5), 19 $\mu\text{g/L}$ (well MW-6), and 24 $\mu\text{g/L}$ (well MW-7), which are within historical limits for each respective well.
- **Toluene** was detected in three Site wells, at concentrations of 0.8 $\mu\text{g/L}$ (well MW-7), 1 $\mu\text{g/L}$ (well MW-5), and 2 $\mu\text{g/L}$ (well MW-6). The concentrations in wells MW-5 and MW-6 are within historical limits, while the concentration in well MW-7 is a historical high.
- **Ethylbenzene** was detected in three Site wells, at concentrations of 2 $\mu\text{g/L}$ (well MW-5), 7 $\mu\text{g/L}$ (well MW-6), and 19 $\mu\text{g/L}$ (well MW-7), which are within historical limits for each respective well.
- **Total Xylenes** were detected in one Site well, at a concentration of 1 $\mu\text{g/L}$ (well MW-7), which is within historical limits for this well.
- **MtBE** was detected in two Site wells, at concentrations of 2 $\mu\text{g/L}$ (well MW-6) and 3 $\mu\text{g/L}$ (well MW-7). The concentration in well MW-6 is within historical limits, while the concentration in well MW-7 is a historical low.
- **DIPE** was not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **EtBE** was not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **TAME** was not detected above the MDL (0.5 $\mu\text{g/L}$) in any Site well sampled.
- **TBA** was detected in two Site wells, at concentrations of 2 $\mu\text{g/L}$ (well MW-7) and 3 $\mu\text{g/L}$ (well MW-6), which are within historical limits for each respective well.

CONCLUSIONS AND RECOMMENDATIONS

Concentrations were conservatively compared to ESLs for groundwater that is a current or potential source of drinking water and concentrations of TPH-GRO and benzene were observed equal to or above ESLs as follows:

- TPH-GRO concentrations exceed the ESL of 100 $\mu\text{g/L}$ in wells MW-5, MW-6, and MW-7; and
- Benzene concentrations equal or exceed the ESL of 1 $\mu\text{g/L}$ in wells MW-5, MW-6, and MW-7.

During Second Quarter 2015, maximum concentrations of petroleum hydrocarbons were observed in well MW-6, located down-gradient of former service station features (fuel dispenser islands and gasoline USTs) situated in the southern and eastern portions of the Site, and in well

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MW-7, which is located approximately 95 feet down-gradient of well MW-6. TPH-GRO and benzene were also detected above or equal to ESLs in well MW-5, located down-gradient of 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 the furthest down-gradient well MW-8, which is approximately 190 feet southwest of the Site.

Based on concentrations of TPH-GRO and benzene equal to or above ESLs, Stantec recommends continuation of the semi-annual groundwater monitoring and sampling program. Reports will continue to be submitted to Alameda County Environmental Health (ACEH) within 60 days following groundwater monitoring and sampling events.

In a letter dated July 9, 2014, ACEH approved Stantec's *Work Plan Addendum*, dated June 11, 2014, and requested a Site Investigation Report by September 12, 2014. Due to issues obtaining an encroachment permit from the City of Oakland, Stantec requested extensions on the due date for the Site Investigation Report in letters dated August 19 and October 30, 2014.

On February 25, 26, 27, and March 5, 2015, Stantec oversaw the advancement of five on-Site soil borings (SB-11 through SB-15) and five off-Site soil borings (SB-17 through SB-21) to further define the lateral extent of petroleum hydrocarbons in soil and groundwater and evaluate whether the Site meets the media-specific criteria set forth in the LTCP. Soil and grab groundwater samples were collected from each soil boring and results and conclusions will be presented in the Site Investigation Report.

In a meeting with Chevron and Stantec on April 22, 2015, to discuss the pending Site Investigation Report, ACEH requested additional data and additional figures be incorporated into the report to more fully evaluate the Site within the context of the Low-Threat UST Case Closure Policy (LTCP), and progress the Site toward a path to closure. Due to the additional requests, the report due date was extended to June 29, 2015. Stantec requested an additional extension for the Site Investigation Report in a letter dated June 19, 2015, to allow additional time to obtain the necessary data and complete the evaluation.

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

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LIMITATIONS

This document entitled Second Quarter 2015 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
(signature)

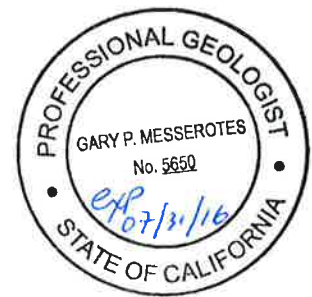
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Attachments:

Table 1 – Well Details / Screen Interval Assessment – Second Quarter 2015

Table 2 – Groundwater Monitoring Data and Analytical Results

Table 3 – Groundwater Analytical Results – Oxygenate Compounds

Figure 1 – Site Location Map

Figure 2 – Groundwater Elevation Contour Map – Second Quarter 2015

Figure 3 – Groundwater Flow Direction Rose Diagram – Second Quarter 2015

Figure 4 – Site Plan Showing Groundwater Concentrations – Second Quarter 2015

Figure 5 – TPH-GRO Isoconcentration Map – Second Quarter 2015

Figure 6 – Benzene Isoconcentration Map – Second Quarter 2015

Attachment A – Gettler-Ryan Inc. Field Data Sheets and Standard Operating Procedures –
Second Quarter 2015

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

Attachment C – Hydrographs

cc:

Ms. Carryl MacLeod, Chevron Environmental Management Company, 6101 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
Second Quarter 2015
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	7.08	5-25	Depth-to-groundwater within screen interval.
MW-6	07/24/08	Monitoring	2	49.07	25.00	24.95	7.20	5-25	Depth-to-groundwater within screen interval.
MW-7	07/24/08	Monitoring	2	48.74	25.00	24.88	9.33	5-25	Depth-to-groundwater within screen interval.
MW-8	07/24/08	Monitoring	2	47.61	25.00	25.00	11.79	5-25	Depth-to-groundwater within screen interval.

Notes:

bgs = below ground surface

msl = mean sea level

TOC = top of casing

¹ = As measured prior to groundwater sampling on May 7, 2015.

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)
	Groundwater ESL			100	1	40	30	20	5
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			--	--	--	--	--
05/07/15³	49.39	7.08	42.31	2,800	1	1	2	<0.5	<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
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

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)
Groundwater ESL				100	1	40	30	20	5

MW-6 (cont)

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				--	--	--	--
05/07/15³	49.07	7.20	41.87	3,600	19	2	7	<0.5	2

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
05/07/15³	48.74	9.33	39.41	5,000	24	0.8	19	1	3

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
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

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)
Groundwater ESL				100	1	40	30	20	5

MW-8 (cont)

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
05/07/15³	47.61	11.79	35.82	<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	--	--	--	--	--	--
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

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)
Groundwater ESL				100	1	40	30	20	5

MW-2 (cont)

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
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

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)
	Groundwater ESL			100	1	40	30	20	5

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									

**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

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)
Groundwater ESL				100	1	40	30	20	5
QA (cont)									
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
05/07/15³	--	--	--	<50	<0.5	<0.5	<0.5	<0.5	<0.5

Table 2
Groundwater Monitoring Data and 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.

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

ESL = California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Level for groundwater that is a current or potential source of drinking water

* 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
Groundwater Analytical Results - Oxygenate Compounds
Former Chevron-Branded Service Station 92029
890 West MacArthur Boulevard,
Oakland, California

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	NE	12	5	NE	NE	NE	0.5	0.05	5
MW-5									
08/27/08	--	2	10	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	4	8	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	3	6	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	7	2	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	2	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	2	0.9	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	0.9	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<10	<3	<3	<3	<3	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
MW-6									
08/27/08	--	390	440	<0.5	<0.5	6	--	--	--
11/21/08	--	320	300	<13	<13	<13	--	--	--
02/13/09	--	100	180	<1	<1	4	--	--	--
05/08/09	--	16	38	<0.5	<0.5	0.9	--	--	--
08/07/09	--	190	330	<3	<3	5	--	--	--
11/05/09	--	86	160	<1	<1	4	--	--	--
05/06/10	--	2	9	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	98	160	<3	<3	3	--	--	--
05/10/11 ¹	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	19	37	<1	<1	<1	--	--	--
05/11/12	--	<2	1	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	16	36	<0.5	<0.5	0.7	--	--	--
05/08/13	--	5	6	<0.5	<0.5	<0.5	--	--	--
11/06/13 ²	--	60	78	<1	<1	2	--	--	--
05/14/14	--	8	10	<0.5	<0.5	<0.5	--	--	<0.5
05/07/15	--	3	2	<0.5	<0.5	<0.5	--	--	--

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

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	NE	12	5	NE	NE	NE	0.5	0.05	5
MW-7									
08/27/08	--	<2	6	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	5	6	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	7	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	8	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	4	5	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	9	5	<1	<1	<1	--	--	--
05/06/10	--	3	6	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	6	4	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	3	5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	4	5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<20	<5	<5	<5	<5	--	--	--
11/14/12	--	<10	4	<3	<3	<3	--	--	--
05/08/13	--	<2	5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	4	<0.5	<0.5	<0.5	--	--	--
05/14/14 ²	--	<10	4	<1	<1	<1	--	--	<1
11/19/14	--	<2	5	<0.5	<0.5	<0.5	--	--	--
05/07/15	--	2	3	<0.5	<0.5	<0.5	--	--	--
MW-8									
08/27/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/21/08	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
02/13/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
08/07/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/05/09	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/06/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/03/10	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/10/11	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/11/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/14/12	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/08/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
11/06/13	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/14/14	--	<5	<0.5	<0.5	<0.5	<0.5	--	--	<0.5
11/19/14	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--
05/07/15	--	<2	<0.5	<0.5	<0.5	<0.5	--	--	--

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

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MiBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	NE	12	5	NE	NE	NE	0.5	0.05	5

MW-1

03/12/02	--	<100	<2	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	<0.5	<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	<0.5	--
03/10/04	<50	<5	<0.5	<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	<0.5	--
09/30/04	<50	<5	<0.5	<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	<0.5	--
03/23/05	<50	<5	<0.5	<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	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

DESTROYED

MW-2

03/12/02	--	<100	3	<2	<2	<2	<2	<2	--
06/07/02	--	<100	<2	<2	<2	<2	<2	<2	--
09/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
12/13/02	--	<100	<2	<2	<2	<2	<2	<2	--
03/01/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/27/03	--	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/30/03	<50	<5	0.7	<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	<0.5	--
03/10/04	<50	<5	<0.5	<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	<0.5	--
09/30/04	<50	<5	<0.5	<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	<0.5	--
03/23/05	<50	<5	<0.5	<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	<0.5	--
09/02/05	<50	<5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	--

DESTROYED

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

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MiBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	NE	12	5	NE	NE	NE	0.5	0.05	5
MW-3									
03/12/02	--	<100	650	<2	<2	18	<2	<2	--
06/07/02	--	230	490	<5.0	<5.0	11	<5.0	<5.0	--
09/13/02	--	170	640	<2	<2	8	<2	<2	--
12/13/02	--	240	540	<2	<2	29	31	<2	--
03/01/03	--	160	330	<0.5	<0.5	10	<0.5	<0.5	--
06/27/03	--	200	470	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<50	120	710	<0.5	<0.5	6	0.7	<0.5	--
12/03/03	<250	200	420	<3	<3	14	<3	<3	--
03/10/04	<50	140	220	<0.5	<0.5	5	<0.5	<0.5	--
06/30/04	<50	100	660	<0.5	<0.5	5	<0.5	<0.5	--
09/30/04	<50	72	690	<0.5	<0.5	4	0.5	<0.5	--
12/31/04	<50	77	170	<0.5	<0.5	5	<0.5	<0.5	--
03/23/05	<50	<5	140	<0.5	<0.5	4	<0.5	3	--
06/22/05	<250	150	300	<3	<3	6	<3	<3	--
09/02/05	<100	99	440	<1	<1	<1	<1	<1	--
12/02/05	<100	66	170	<1	<1	5	<1	<1	--
03/20/06	<50	14	34	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	12	28	<0.5	<0.5	0.8	<0.5	<0.5	--
09/11/06	<50	47	97	<0.5	<0.5	2	<0.5	<0.5	--
DESTROYED									
MW-4									
03/12/02	--	<100	170	<2	<2	13	<2	<2	--
06/07/02	--	<100	120	<2	<2	14	<2	<2	--
09/13/02	--	<100	160	<2	<2	14	<2	<2	--
12/13/02	--	<100	200	<2	<2	17	<2	<2	--
03/01/03	--	19	100	<0.5	<0.5	8	<0.5	<0.5	--
06/27/03	--	22	130	<0.5	<0.5	11	<0.5	<0.5	--
09/30/03	<100	<10	520	<1	<1	9	<1	<1	--
12/03/03	<50	18	73	<0.5	<0.5	5	<0.5	<0.5	--
03/10/04	<50	11	55	<0.5	<0.5	4	<0.5	<0.5	--
06/30/04	<100	<10	110	<1	<1	6	<1	<1	--
09/30/04	<50	17	400	<0.5	<0.5	7	<0.5	<0.5	--
12/31/04	<50	11	42	<0.5	<0.5	2	<0.5	<0.5	--
03/23/05	<50	<5	24	<0.5	<0.5	1	<0.5	0.9	--
06/22/05	<50	15	18	<0.5	<0.5	1	<0.5	<0.5	--
09/02/05	<50	6	18	<0.5	<0.5	<0.5	<0.5	<0.5	--
12/02/05	<50	11	34	<0.5	<0.5	1	<0.5	<0.5	--

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

WELL ID/ DATE	ETHANOL (µg/L)	TBA (µg/L)	MtBE (µg/L)	DIPE (µg/L)	EtBE (µg/L)	TAME (µg/L)	1,2-DCA (µg/L)	1,2-DBA (µg/L)	PCE (µg/L)
Groundwater ESL	NE	12	5	NE	NE	NE	0.5	0.05	5
MW-4 (cont)									
03/20/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5	--
06/01/06	<50	<5	2	<0.5	<0.5	<0.5	<0.5	<0.5	--
09/11/06	<50	<5	4	<0.5	<0.5	<0.5	<0.5	<0.5	--
DESTROYED									

Table 3
Groundwater Analytical Results - Oxygenate Compounds
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

MtBE = Methyl tertiary-butyl ether

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

ESL = California Regional Water Quality Control Board - San Francisco Bay Region Environmental Screening Level for groundwater that is a current or potential source of drinking water

NE = ESL not established

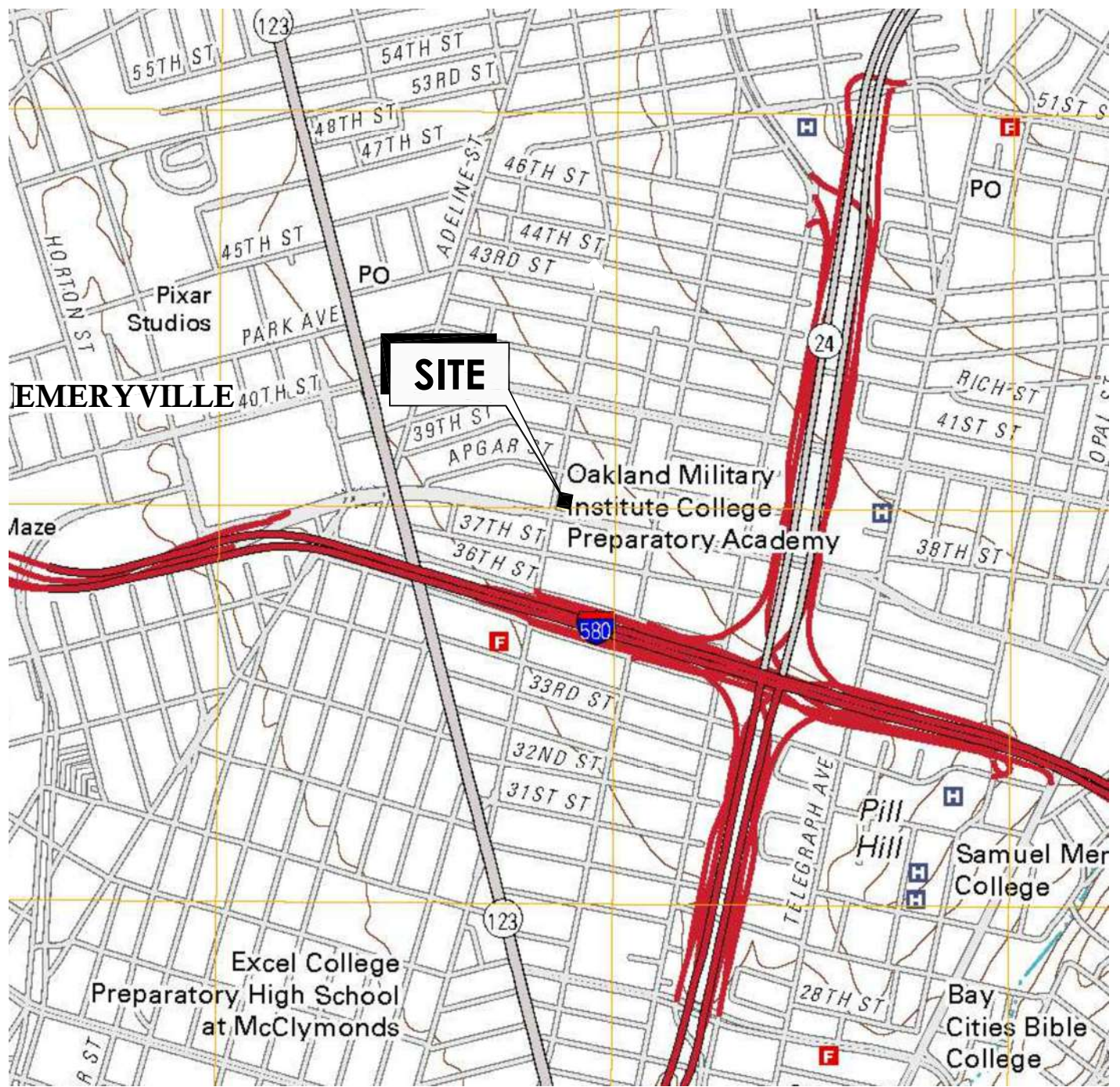
ANALYTICAL METHOD:

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

SITE LOCATION MAP

FIGURE:

1

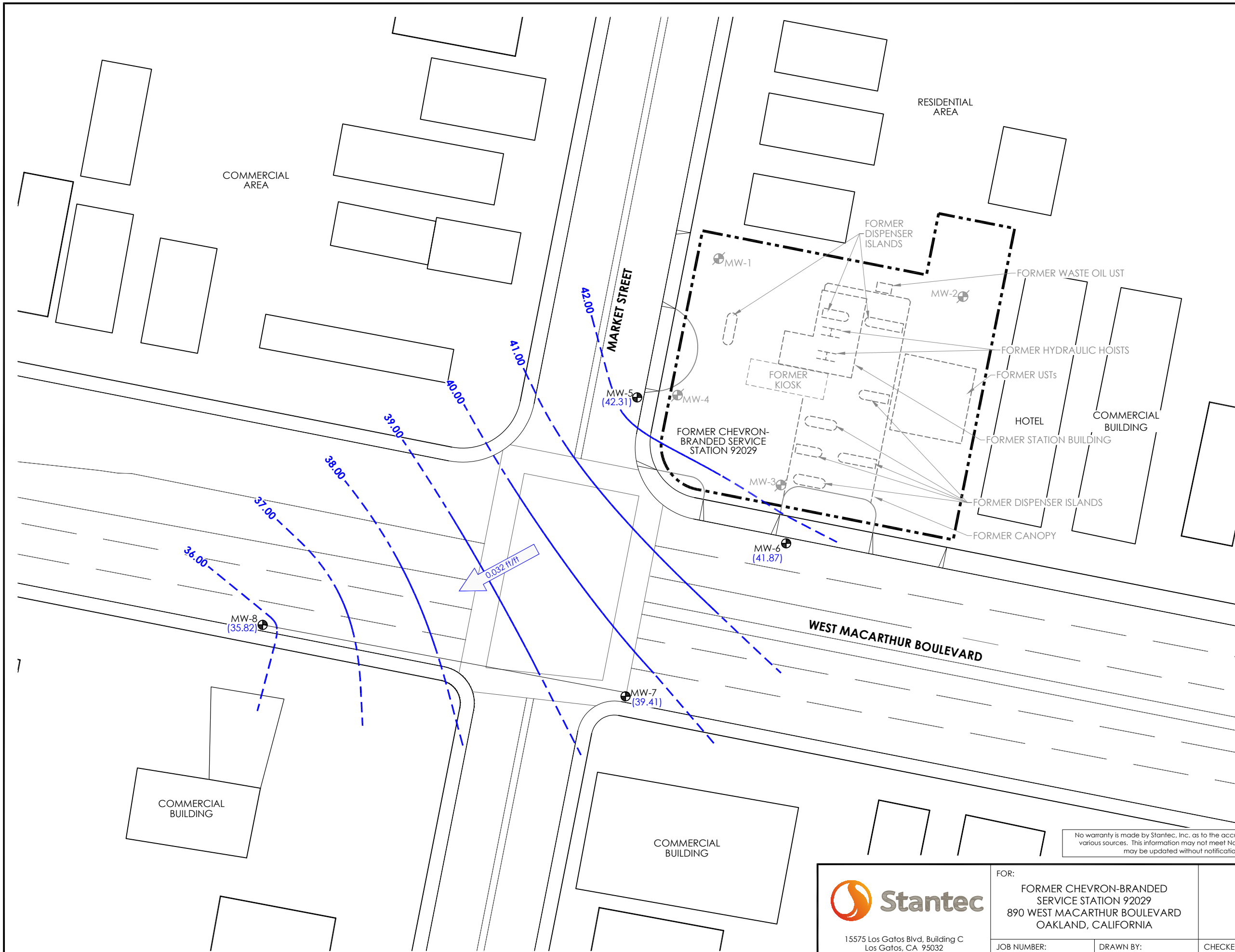
JOB NUMBER:
211602398

DRAWN BY:
JRO

CHECKED BY:
EEO/MRK

APPROVED BY:
GPM/TLF

DATE:
06/02/15

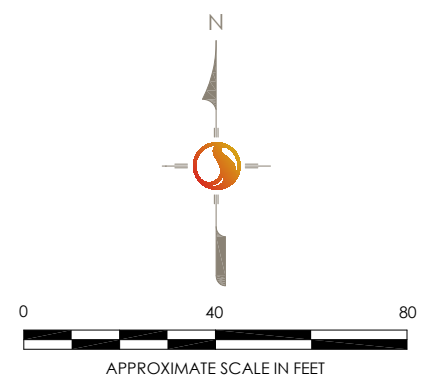


LEGEND

- APPROXIMATE SITE BOUNDARY
- UST UNDERGROUND STORAGE TANK
- GROUNDWATER MONITORING WELL
- ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
- 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 0.032 FEET PER FOOT (ft/ft).

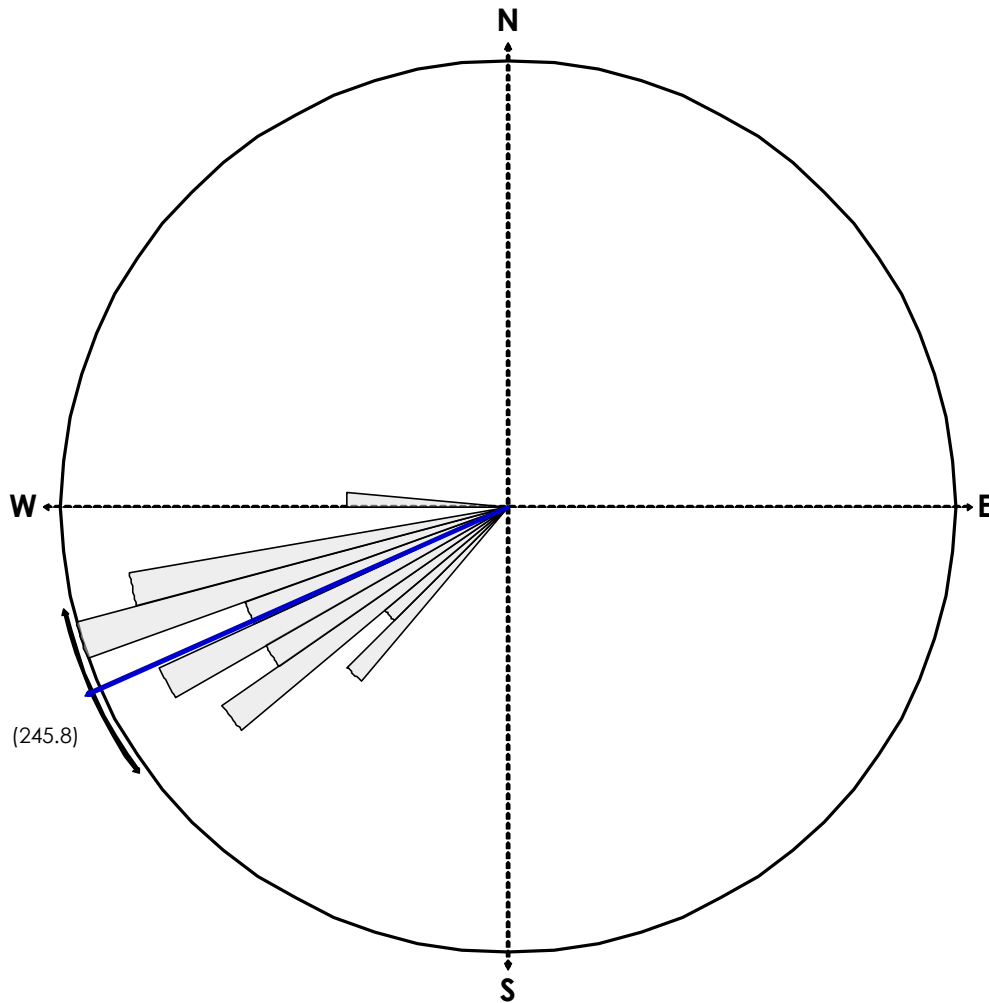
NOTES

FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS
 GROUNDWATER ELEVATION DATA WERE COLLECTED ON MAY 7, 2015
 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 - SECOND QUARTER 2015		FIGURE: 2
	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: GPM/TLF

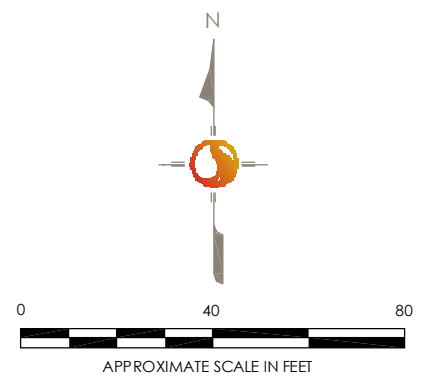
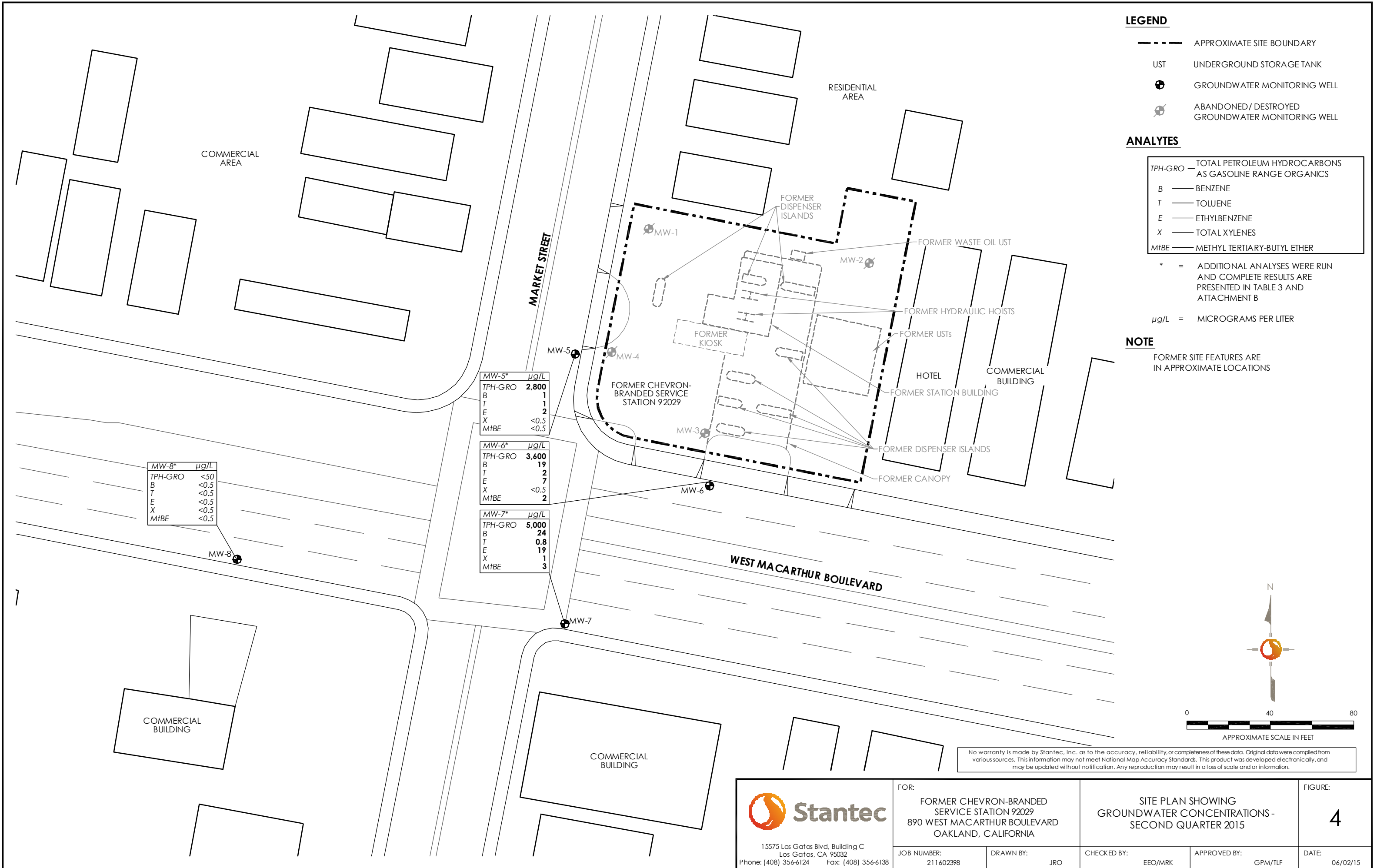


EQUAL AREA PLOT

Number of Points 35
 Class Size 5
 Vector Mean 245.75
 Vector Magnitude 34.32
 Consistency Ratio 0.98

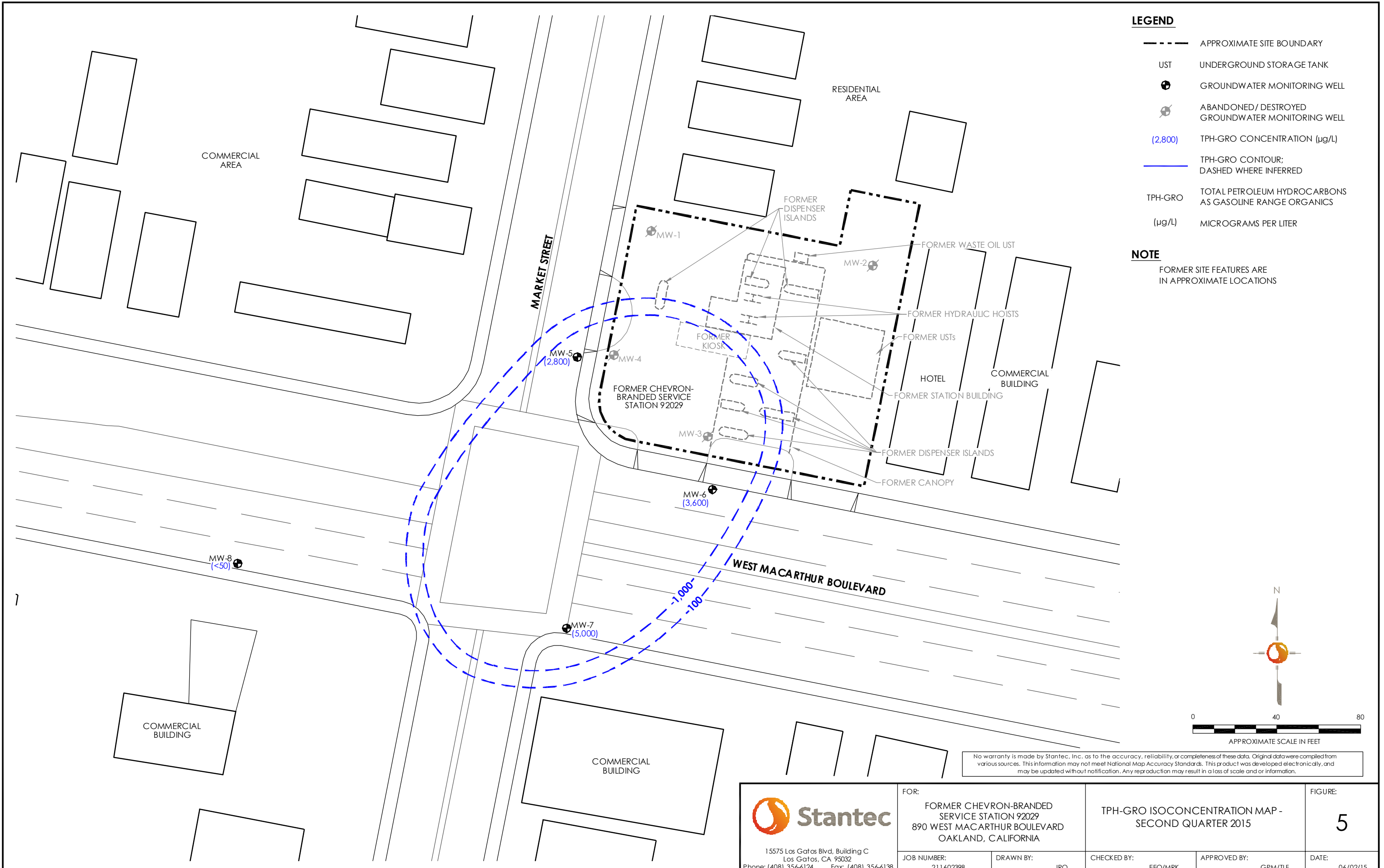
NOTE: ROSE DIAGRAM IS BASED ON THE DIRECTION OF GROUNDWATER FLOW BEGINNING FIRST QUARTER 2002.

 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 FLOW DIRECTION ROSE DIAGRAM - SECOND QUARTER 2015		FIGURE: 3
	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO	APPROVED BY: GPM/TLF	DATE: 06/15/15



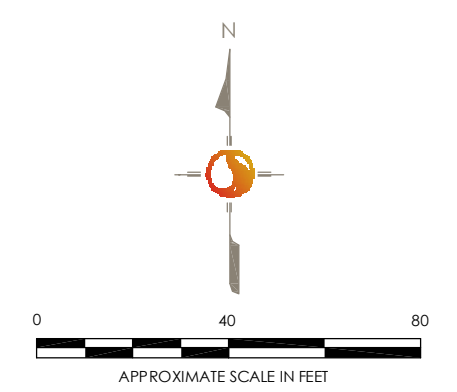
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<p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138</p>	FOR:	FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA		SITE PLAN SHOWING GROUNDWATER CONCENTRATIONS - SECOND QUARTER 2015		FIGURE:	4
	JOB NUMBER:	DRAWN BY:	CHECKED BY:	APPROVED BY:	DATE:		
	211602398	JRO	EEO/MRK	GPM/TLF	06/02/15		



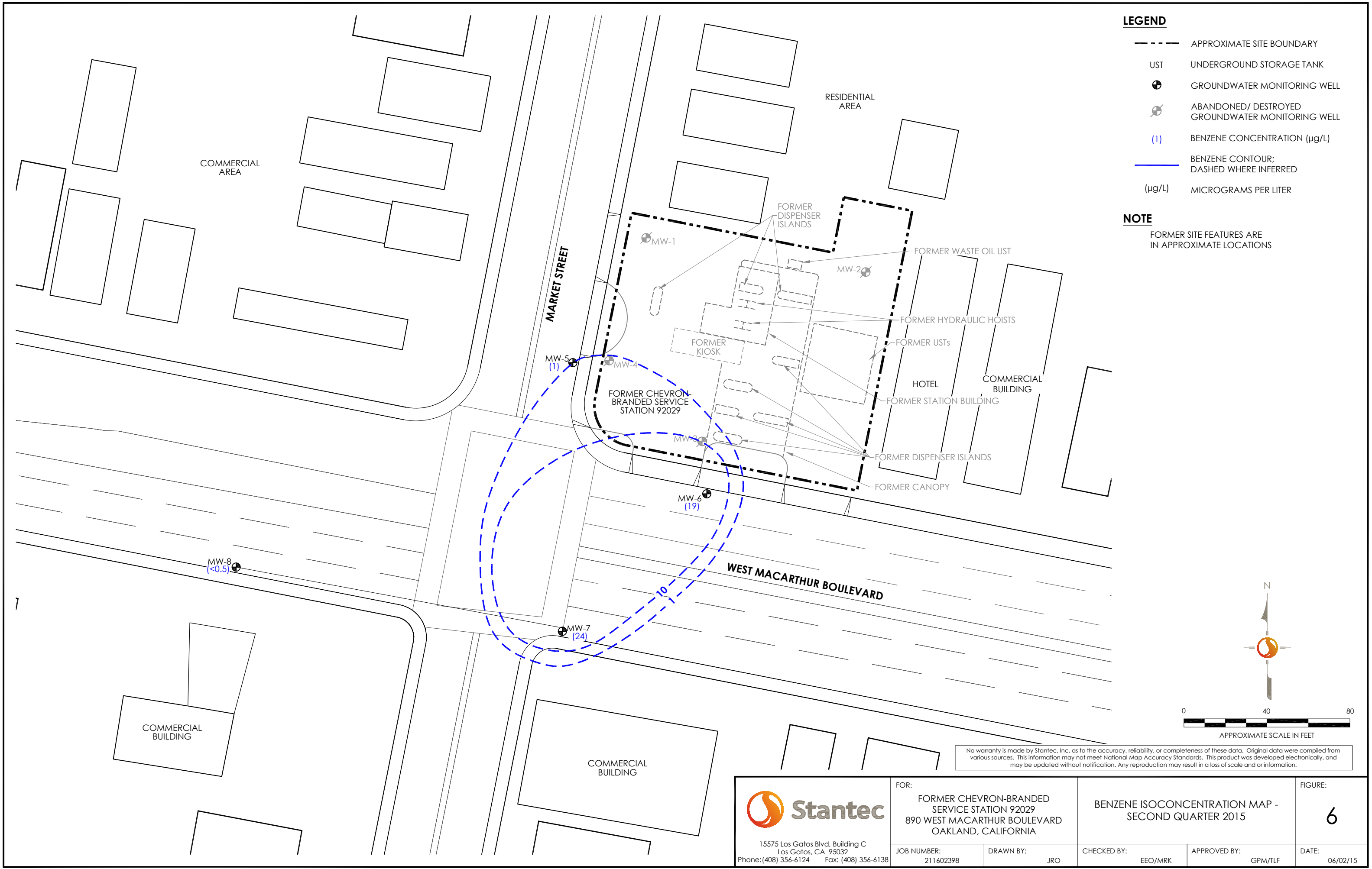
- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (2,800) TPH-GRO CONCENTRATION (µg/L)
 - TPH-GRO CONTOUR; DASHED WHERE INFERRED
 - TPH-GRO TOTAL PETROLEUM HYDROCARBONS AS GASOLINE RANGE ORGANICS (µg/L)
 - MICROGRAMS PER LITER

NOTE
FORMER SITE FEATURES ARE IN APPROXIMATE LOCATIONS



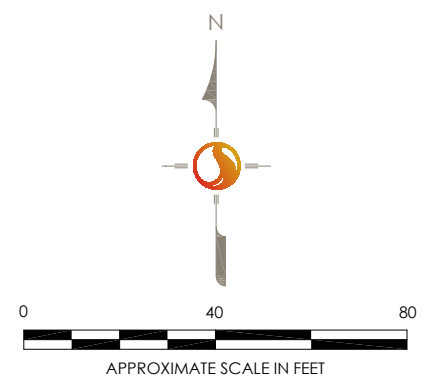
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<p>15575 Los Gatos Blvd, Building C Los Gatos, CA 95032 Phone: (408) 356-6124 Fax: (408) 356-6138</p>	FOR: FORMER CHEVRON-BRANDED SERVICE STATION 92029 890 WEST MACARTHUR BOULEVARD OAKLAND, CALIFORNIA		TPH-GRO ISOCONCENTRATION MAP - SECOND QUARTER 2015		FIGURE: 5
	JOB NUMBER: 211602398	DRAWN BY: JRO	CHECKED BY: EEO/MRK	APPROVED BY: GPM/TLF	DATE: 06/02/15



- LEGEND**
- APPROXIMATE SITE BOUNDARY
 - UST UNDERGROUND STORAGE TANK
 - ⊕ GROUNDWATER MONITORING WELL
 - ⊖ ABANDONED/ DESTROYED GROUNDWATER MONITORING WELL
 - (1) BENZENE CONCENTRATION (µg/L)
 - BENZENE CONTOUR; DASHED WHERE INFERRED
 - (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>BENZENE ISOCONCENTRATION MAP - SECOND QUARTER 2015</p>			<p>FIGURE: 6</p>
	<p>JOB NUMBER: 211602398</p>	<p>DRAWN BY: JRO</p>	<p>CHECKED BY: EEO/MRK</p>	<p>APPROVED BY: GPM/TLF</p>	<p>DATE: 06/02/15</p>

ATTACHMENT A

**Gettler-Ryan Inc. Field Data Sheets and Standard
Operating Procedures – Second Quarter 2015**



TRANSMITTAL

May 15, 2015
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 First Semi-Annual Event of May 7, 2015

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.

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

Job Number: 386911
 Event Date: 5.7.15 (inclusive)
 Sampler: FT

Well ID: MW- 5
 Well Diameter: 2 in.
 Total Depth: 24.98 ft.
 Depth to Water: 7.08 ft.
17.90 xVF .17 = 3.04

Date Monitored: 5.7.15

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.

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.66 gal.

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): 0945
 Sample Time/Date: 1013 / 5.7.15
 Approx. Flow Rate: _____ gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: CLOUDY
 Water Color: CLEAN Odor: 0 / N / MODERATE
 Sediment Description: NONE
 Volume: _____ gal. DTW @ Sampling: 10.12

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (° / F)	D.O. (mg/L)	ORP (mV)
<u>0951</u>	<u>3.0</u>	<u>7.22</u>	<u>972</u>	<u>16.8</u>	_____	_____
<u>0957</u>	<u>6.0</u>	<u>7.19</u>	<u>980</u>	<u>17.3</u>	_____	_____
<u>1003</u>	<u>9.0</u>	<u>7.17</u>	<u>988</u>	<u>17.9</u>	_____	_____

LABORATORY INFORMATION

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

COMMENTS: _____

Add/Replaced Gasket: _____ Add/Replaced Bolt: 2 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: 5.7.15 (inclusive)
 Sampler: PT

Well ID: MW-6
 Well Diameter: 2 in.
 Total Depth: 24.95 ft.
 Depth to Water: 7.20 ft.

Date Monitored: 5.7.15

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.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.75
 $17.75 \times VF .17 = 3.01$ x3 case volume = Estimated Purge Volume: 9.0 gal.

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): 1030
 Sample Time/Date: 1100 / 5.7.15
 Approx. Flow Rate: ✓ gpm.
 Did well de-water? No If yes, Time: _____

Weather Conditions: CLOUDY
 Water Color: CLEAN Odor: ⓪ / N STRONG
 Sediment Description: NONE
 Volume: _____ gal. DTW @ Sampling: 10.52

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / F)	D.O. (mg/L)	ORP (mV)
<u>1036</u>	<u>3.0</u>	<u>7.18</u>	<u>1151</u>	<u>19.5</u>	<u>✓</u>	<u>✓</u>
<u>1042</u>	<u>6.0</u>	<u>7.15</u>	<u>1160</u>	<u>19.9</u>	<u>✓</u>	<u>✓</u>
<u>1048</u>	<u>9.0</u>	<u>7.12</u>	<u>1171</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 x voa vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)/5 OXYS(8260)</u>

COMMENTS: SUBEN PRESENT IN WATER

Add/Replaced Gasket: _____ Add/Replaced Bolt: _____ Add/Replaced Lock: Add/Replaced Plug: (2'')



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: 5.7.15 (inclusive)
 City: Oakland, CA Sampler: FT

Well ID: MW- 7 Date Monitored: 5.7.15
 Well Diameter: 2 in.
 Total Depth: 24.88 ft.
 Depth to Water: 9.33 ft. Check if water column is less than 0.50 ft.
15.55 xVF .17 = 2.64 x3 case volume = Estimated Purge Volume: 8.0 gal.

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

Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 12.44

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): 1120 Weather Conditions: CLOUDY
 Sample Time/Date: 1145 / 5.7.15 Water Color: CLEAN Odor: 0 / N MODERATE
 Approx. Flow Rate: / gpm. Sediment Description: NONE
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 11.21

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (µS/mS / µmhos/cm)	Temperature (°C / °F)	D.O. (mg/L)	ORP (mV)
<u>1125</u>	<u>2.5</u>	<u>7.31</u>	<u>872</u>	<u>19.7</u>	<u>/</u>	<u>/</u>
<u>1130</u>	<u>5.0</u>	<u>7.28</u>	<u>880</u>	<u>20.1</u>	<u>/</u>	<u>/</u>
<u>1134</u>	<u>7.0</u>	<u>7.25</u>	<u>889</u>	<u>20.7</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)/5 OXYS(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: 5.7.15 (inclusive)
 Sampler: FT

Well ID: MW-8
 Well Diameter: 2 in.
 Total Depth: 25.00 ft.
 Depth to Water: 11.79 ft.

Date Monitored: 5.7.15

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.
 Depth to Water w/ 80% Recharge [(Height of Water Column x 0.20) + DTW]: 14.43
 Estimated Purge Volume: 7.0 gal.

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)
 Amt Removed from Skimmer: _____ ltr
 Amt Removed from Well: _____ ltr
 Water Removed: _____ ltr

Start Time (purge): 1205
 Sample Time/Date: 1230 / 5.7.15
 Approx. Flow Rate: / gpm.
 Did well de-water? No If yes, Time: _____ Volume: _____ gal. DTW @ Sampling: 12.72
 Weather Conditions: CLOUDY
 Water Color: LT. BRN Odor: Y10
 Sediment Description: S. SILTY

Time (2400 hr.)	Volume (gal.)	pH	Conductivity (15) / mS μmhos/cm	Temperature (C / F)	D.O. (mg/L)	ORP (mV)
<u>1210</u>	<u>2.5</u>	<u>7.45</u>	<u>656</u>	<u>20.5</u>	/	/
<u>1215</u>	<u>5.0</u>	<u>7.43</u>	<u>650</u>	<u>20.8</u>	/	/
<u>1219</u>	<u>7.0</u>	<u>7.41</u>	<u>646</u>	<u>21.0</u>	/	/

LABORATORY INFORMATION

SAMPLE ID	(#) CONTAINER	REFRIG.	PRESERV. TYPE	LABORATORY	ANALYSES
<u>MW-8</u>	<u>6 x vov vial</u>	<u>YES</u>	<u>HCL</u>	<u>LANCASTER</u>	<u>TPH-GRO(8015)/BTEX+MTBE(8260)/5 OXYS(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

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

05071503

1 Client Information				4 Matrix				5 Analyses Requested															
Facility SS#9-2029-OML G-R#386911 Global ID#T0600173887				Sediment <input type="checkbox"/> Ground <input checked="" type="checkbox"/> Surface <input type="checkbox"/> Potable <input type="checkbox"/> NPDES <input type="checkbox"/> Air <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"/>		TPH-DRO 8015 without Silica Gel Cleanup <input type="checkbox"/>		TPH-DRO 8015 with Silica Gel Cleanup <input type="checkbox"/>		8260 Full Scan		5 Oxygenates (8260)		Total Lead Method _____		Dissolved Lead Method _____	
Site Address 890 WEST MACARTHUR BLVD., OAKLAND, CA																							
Chevron # CW STANTECTF Lead Consultant Flora																							
Consultant/Office Getter-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568																							
Consultant Project Mgr. Deanna E. Harding, deanna@grinc.com																							
Consultant Phone # (925) 551-7444 x180																							
Sampler FRANK TENNISON				3 Composite				Soil <input type="checkbox"/>		Water <input type="checkbox"/>		Oil <input type="checkbox"/>											

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

2 Sample Identification	Soil Depth	3 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	5 Oxygenates (8260)	Total Lead Method	Dissolved Lead Method	BTEX (8260)	
		Date	Time																			
QA		5.7.15					W		2	X	X											
MW-5			1013	X					6			X							X			
MW-6			1100	X					6			X							X			
MW-7			1145	X					6			X							X			
MW-8			1230	X					6			X							X			

6 Remarks

7 Turnaround Time Requested (TAT) (please circle)			Relinquished by		Date	Time	Received by		Date	Time
<u>Standard</u>	5 day	4 day	<i>[Signature]</i>		5.7.15	1400	<i>[Signature]</i>		5.7.15	1400
72 hour	48 hour	24 hours			EDF/EDD					

8 Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date	Time
Type I - Full		EDFFLAT (default)		UPS _____ FedEx _____ Other _____							
Type VI (Raw Data)		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

May 21, 2015

Project: 92029

Submittal Date: 05/08/2015
Group Number: 1559686
PO Number: 0015167993
Release Number: CMACLEOD
State of Sample Origin: CA

<u>Client Sample Description</u>	<u>Lancaster Labs (LL) #</u>
QA-T-150507 NA Water	7879615
MW-5-W-150507 Grab Groundwater	7879616
MW-6-W-150507 Grab Groundwater	7879617
MW-7-W-150507 Grab Groundwater	7879618
MW-8-W-150507 Grab Groundwater	7879619

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	Stantec	Attn: Marisa Kaffenberger
ELECTRONIC COPY TO	Stantec	Attn: Erin O'Malley
ELECTRONIC COPY TO	Stantec International	Attn: Travis Flora
ELECTRONIC COPY TO	Stantec	Attn: Laura Viesselman
ELECTRONIC COPY TO	Gettler-Ryan Inc.	Attn: Gettler Ryan

Respectfully Submitted,

A handwritten signature in black ink that reads "Amek Carter". The signature is written in a cursive style with a long horizontal stroke at the end of the name.

Amek Carter
Specialist

(717) 556-7252

Sample Description: QA-T-150507 NA Water
Facility# 92029 Job# 386911 GRD
890 W MacArthur-Oakland T0600173887

LL Sample # WW 7879615
LL Group # 1559686
Account # 10906

Project Name: 92029

Collected: 05/07/2015

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/08/2015 09:25

Reported: 05/21/2015 18:45

WMOQA

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

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/MTBE	SW-846 8260B	1	D151381AA	05/18/2015 11:22	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151381AA	05/18/2015 11:22	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15133A20A	05/13/2015 10:23	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15133A20A	05/13/2015 10:23	Jeremy C Giffin	1

Sample Description: MW-5-W-150507 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W MacArthur-Oakland T0600173887

LL Sample # WW 7879616
LL Group # 1559686
Account # 10906

Project Name: 92029

Collected: 05/07/2015 10:13 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/08/2015 09:25

Reported: 05/21/2015 18:45

WMOM5

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	1	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	2	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	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	N.D.	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	2,800	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 + 5 Oxygenates Water	SW-846 8260B	1	D151391AA	05/19/2015 21:57	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151391AA	05/19/2015 21:57	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15133A20A	05/13/2015 12:14	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15133A20A	05/13/2015 12:14	Jeremy C Giffin	1

Sample Description: MW-6-W-150507 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W MacArthur-Oakland T0600173887

LL Sample # WW 7879617
LL Group # 1559686
Account # 10906

Project Name: 92029

Collected: 05/07/2015 11:00 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/08/2015 09:25

Reported: 05/21/2015 18:45

WMOM6

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	19	0.5	1
10945	t-Butyl alcohol	75-65-0	3	2	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	7	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	2	0.5	1
10945	Toluene	108-88-3	2	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.	3,600	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 + 5 Oxygenates Water	SW-846 8260B	1	D151401AA	05/20/2015 11:18	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151401AA	05/20/2015 11:18	Amanda K Richards	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15133A20A	05/13/2015 12:36	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15133A20A	05/13/2015 12:36	Jeremy C Giffin	1

Sample Description: MW-7-W-150507 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W MacArthur-Oakland T0600173887

LL Sample # WW 7879618
LL Group # 1559686
Account # 10906

Project Name: 92029

Collected: 05/07/2015 11:45 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/08/2015 09:25

Reported: 05/21/2015 18:45

WMOM7

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles SW-846 8260B			ug/l	ug/l	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	24	0.5	1
10945	t-Butyl alcohol	75-65-0	2	2	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	19	0.5	1
10945	di-Isopropyl ether	108-20-3	N.D.	0.5	1
10945	Methyl Tertiary Butyl Ether	1634-04-4	3	0.5	1
10945	Toluene	108-88-3	0.8	0.5	1
10945	Xylene (Total)	1330-20-7	1	0.5	1
GC Volatiles SW-846 8015B			ug/l	ug/l	
01728	TPH-GRO N. CA water C6-C12	n.a.	5,000	250	5

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 + 5 Oxygenates Water	SW-846 8260B	1	D151401AA	05/20/2015 11:41	Amanda K Richards	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151401AA	05/20/2015 11:41	Amanda K Richards	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15133A20A	05/13/2015 14:26	Jeremy C Giffin	5
01146	GC VOA Water Prep	SW-846 5030B	1	15133A20A	05/13/2015 14:26	Jeremy C Giffin	5

Sample Description: MW-8-W-150507 Grab Groundwater
Facility# 92029 Job# 386911 GRD
890 W MacArthur-Oakland T0600173887

LL Sample # WW 7879619
LL Group # 1559686
Account # 10906

Project Name: 92029

Collected: 05/07/2015 12:30 by FT

Chevron

6001 Bollinger Canyon Rd L4310
San Ramon CA 94583

Submitted: 05/08/2015 09:25

Reported: 05/21/2015 18:45

M8WMO

CAT No.	Analysis Name	CAS Number	Result	Method Detection Limit	Dilution Factor
GC/MS Volatiles		SW-846 8260B	ug/l	ug/l	
10945	t-Amyl methyl ether	994-05-8	N.D.	0.5	1
10945	Benzene	71-43-2	N.D.	0.5	1
10945	t-Butyl alcohol	75-65-0	N.D.	2	1
10945	Ethyl t-butyl ether	637-92-3	N.D.	0.5	1
10945	Ethylbenzene	100-41-4	N.D.	0.5	1
10945	di-Isopropyl ether	108-20-3	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

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 + 5 Oxygenates Water	SW-846 8260B	1	D151391AA	05/19/2015 23:06	Daniel H Heller	1
01163	GC/MS VOA Water Prep	SW-846 5030B	1	D151391AA	05/19/2015 23:06	Daniel H Heller	1
01728	TPH-GRO N. CA water C6-C12	SW-846 8015B	1	15133A20A	05/13/2015 13:20	Jeremy C Giffin	1
01146	GC VOA Water Prep	SW-846 5030B	1	15133A20A	05/13/2015 13:20	Jeremy C Giffin	1

Quality Control Summary

Client Name: Chevron
Reported: 05/21/2015 18:45

Group Number: 1559686

Matrix QC may not be reported if insufficient sample or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD was performed, unless otherwise specified in the method.

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

Laboratory Compliance Quality Control

<u>Analysis Name</u>	<u>Blank Result</u>	<u>Blank MDL</u>	<u>Report Units</u>	<u>LCS %REC</u>	<u>LCSD %REC</u>	<u>LCS/LCSD Limits</u>	<u>RPD</u>	<u>RPD Max</u>
Batch number: D151381AA	Sample number(s): 7879615							
Benzene	N.D.	0.5	ug/l	113		78-120		
Ethylbenzene	N.D.	0.5	ug/l	106		80-120		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	109		75-120		
Toluene	N.D.	0.5	ug/l	112		80-120		
Xylene (Total)	N.D.	0.5	ug/l	111		80-120		
Batch number: D151391AA	Sample number(s): 7879616,7879619							
t-Amyl methyl ether	N.D.	0.5	ug/l	90		75-120		
Benzene	N.D.	0.5	ug/l	99		78-120		
t-Butyl alcohol	N.D.	2.	ug/l	89		78-121		
Ethyl t-butyl ether	N.D.	0.5	ug/l	88		69-120		
Ethylbenzene	N.D.	0.5	ug/l	90		80-120		
di-Isopropyl ether	N.D.	0.5	ug/l	89		70-124		
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	95		75-120		
Toluene	N.D.	0.5	ug/l	94		80-120		
Xylene (Total)	N.D.	0.5	ug/l	94		80-120		
Batch number: D151401AA	Sample number(s): 7879617-7879618							
t-Amyl methyl ether	N.D.	0.5	ug/l	79	98	75-120	21	30
Benzene	N.D.	0.5	ug/l	89	110	78-120	21	30
t-Butyl alcohol	N.D.	2.	ug/l	81	102	78-121	22	30
Ethyl t-butyl ether	N.D.	0.5	ug/l	78	95	69-120	19	30
Ethylbenzene	N.D.	0.5	ug/l	81	101	80-120	22	30
di-Isopropyl ether	N.D.	0.5	ug/l	79	97	70-124	20	30
Methyl Tertiary Butyl Ether	N.D.	0.5	ug/l	85	104	75-120	20	30
Toluene	N.D.	0.5	ug/l	86	105	80-120	21	30
Xylene (Total)	N.D.	0.5	ug/l	85	106	80-120	22	30
Batch number: 15133A20A	Sample number(s): 7879615-7879619							
TPH-GRO N. CA water C6-C12	N.D.	50.	ug/l	95	95	80-139	1	30

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS %REC</u>	<u>MSD %REC</u>	<u>MS/MSD Limits</u>	<u>RPD</u>	<u>RPD MAX</u>	<u>BKG Conc</u>	<u>DUP Conc</u>	<u>DUP RPD</u>	<u>Dup RPD Max</u>
Batch number: D151381AA	Sample number(s): 7879615 UNSPK: P892056								
Benzene	94	97	72-134	3	30				

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 05/21/2015 18:45

Group Number: 1559686

Sample Matrix Quality Control

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

<u>Analysis Name</u>	<u>MS</u> <u>%REC</u>	<u>MSD</u> <u>%REC</u>	<u>MS/MSD</u> <u>Limits</u>	<u>RPD</u> <u>RPD</u>	<u>BKG</u> <u>MAX</u> <u>Conc</u>	<u>DUP</u> <u>Conc</u>	<u>DUP</u> <u>RPD</u>	<u>Dup RPD</u> <u>Max</u>
Ethylbenzene	88	91	71-134	3	30			
Methyl Tertiary Butyl Ether	87	89	72-126	2	30			
Toluene	92	95	80-125	4	30			
Xylene (Total)	90	94	79-125	4	30			
Batch number: D151391AA Sample number(s): 7879616,7879619 UNSPK: P888394								
t-Amyl methyl ether	98	104	65-117	6	30			
Benzene	111	119	72-134	7	30			
t-Butyl alcohol	95	100	67-119	5	30			
Ethyl t-butyl ether	94	101	74-122	7	30			
Ethylbenzene	103	108	71-134	5	30			
di-Isopropyl ether	97	103	70-129	7	30			
Methyl Tertiary Butyl Ether	101	107	72-126	6	30			
Toluene	107	112	80-125	5	30			
Xylene (Total)	106	111	79-125	5	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: D151381AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7879615	96	100	95	93
Blank	97	98	97	97
LCS	95	101	96	98
MS	96	103	96	99
MSD	94	103	95	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX + 5 Oxygenates 8260 Water
Batch number: D151391AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7879616	95	98	96	100
7879619	98	101	95	93
Blank	97	100	96	95
LCS	96	103	95	98
MS	95	100	95	98
MSD	95	103	95	97
Limits:	80-116	77-113	80-113	78-113

Analysis Name: BTEX + 5 Oxygenates 8260 Water
Batch number: D151401AA

	Dibromofluoromethane	1,2-Dichloroethane-d4	Toluene-d8	4-Bromofluorobenzene
7879617	95	98	95	98
7879618	93	95	95	103
Blank	97	101	96	94

*- Outside of specification

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

Quality Control Summary

Client Name: Chevron
Reported: 05/21/2015 18:45

Group Number: 1559686

Surrogate Quality Control

LCS	97	102	94	98
LCSD	95	101	95	99
Limits:	80-116	77-113	80-113	78-113

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

Batch number: 15133A20A

Trifluorotoluene-F

7879615	92
7879616	130
7879617	133
7879618	98
7879619	92
Blank	91
LCS	100
LCSD	102
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.

Chevron California Region Analysis Request/Chain of Custody



Lancaster Laboratories

Acct. # 10906 Group # 1554686 Sample # 7879615-19
 For Eurofins Lancaster Laboratories use only
 Instructions on reverse side correspond with circled numbers.

105)

① Client Information				④ Matrix				⑤ Analyses Requested								⑥ Remarks			
Facility # <u>SS#9-2029-OML G-R#386911 Global ID#T0600173887</u> Site Address <u>890 WEST MACARTHUR BLVD., OAKLAND, CA</u> Chevron # <u>CM</u> STANTECTF Lead Consultant <u>Flora</u> Consultant/Office <u>Getter-Ryan, Inc., 6805 Sierra Court, Suite G, Dublin, CA 94568</u> Consultant Project Mgr. <u>Deanna L. Harding, deanna@grinc.com</u> Consultant Phone # <u>(925) 551-7444 x180</u> Sampler <u>FRANK TENNISONI</u>				<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 type="checkbox"/> 8260 <input checked="" 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 5 Oxygenates (8260) Total Lead Method Dissolved Lead Method BTEX (8260)								SCR #: _____ <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			
② Sample Identification		Soil Depth	Collected		Grab	Composite	Soil	Water	Oil										
			Date	Time															
QA			5.7.15						2										
MW-5				1013	X				6										
MW-6				1100	X				6										
MW-7				1145	X				6										
MW-8				1230	X				6										
⑦ Turnaround Time Requested (TAT) (please circle)					Relinquished by		Date	Time	Received by		Date	Time							
<input checked="" type="radio"/> Standard 5 day <input type="radio"/> 72 hour 48 hour			<input type="radio"/> 4 day <input type="radio"/> 24 hour				5.7.15	1400			5.7.15	1400							
			EDF/EDD		Relinquished by		Date	Time	Received by		Date	Time							
							5.7.15	1630											
⑧ Data Package (circle if required)		EDD (circle if required)		Relinquished by Commercial Carrier:				Received by		Date	Time								
<input type="checkbox"/> Type I - Full <input type="checkbox"/> Type VI (Raw Data)		<input type="checkbox"/> EDFFLAT (default) Other: _____		UPS _____ FedEx _____ Other _____						5.8.15	925								
				Temperature Upon Receipt _____ °C				Custody Seals Intact?		<input checked="" type="radio"/> Yes <input type="radio"/> No									

Explanation of Symbols and Abbreviations

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

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

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, ISO17025) 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.

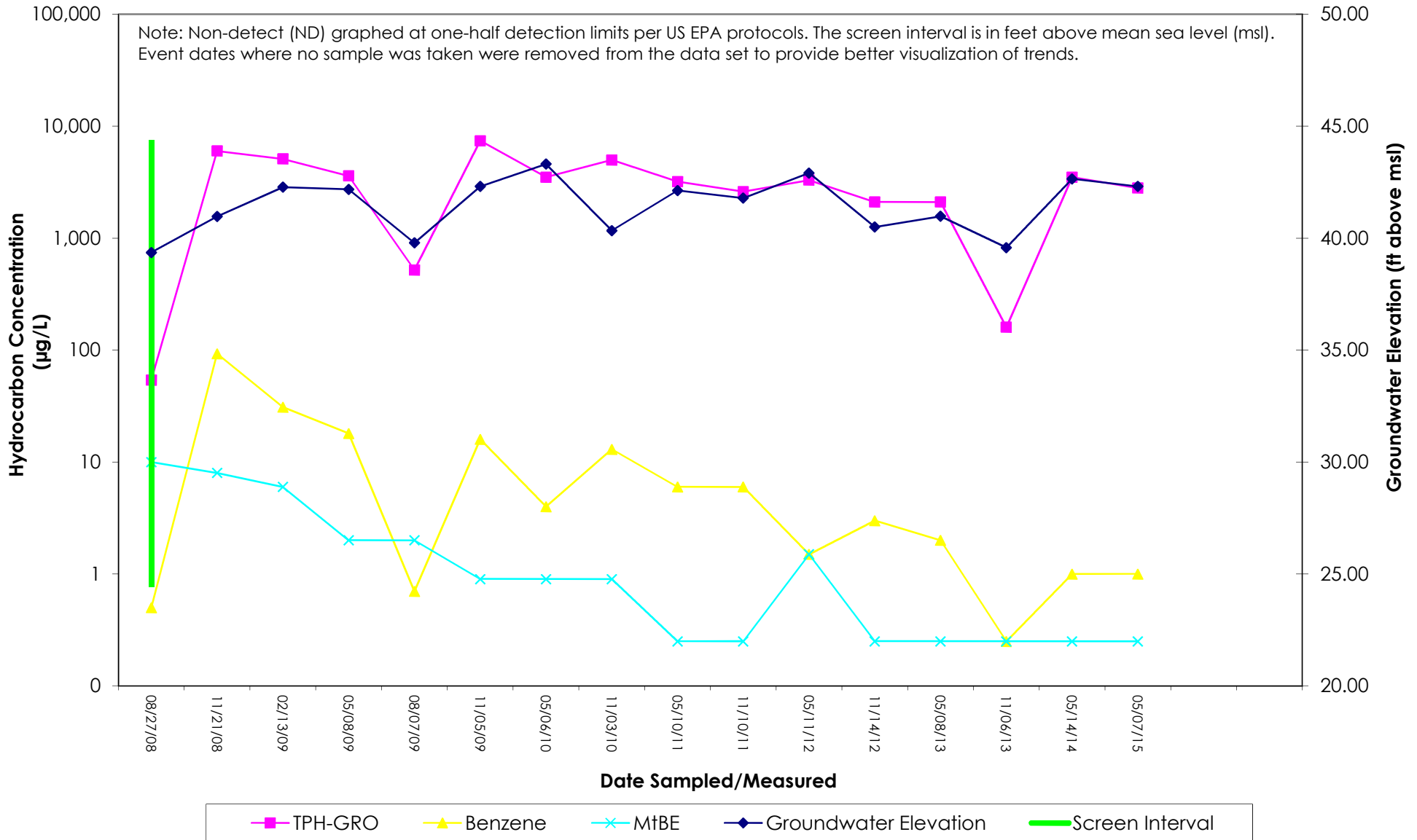
This report shall not be reproduced except in full, without the written approval of the laboratory.

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.

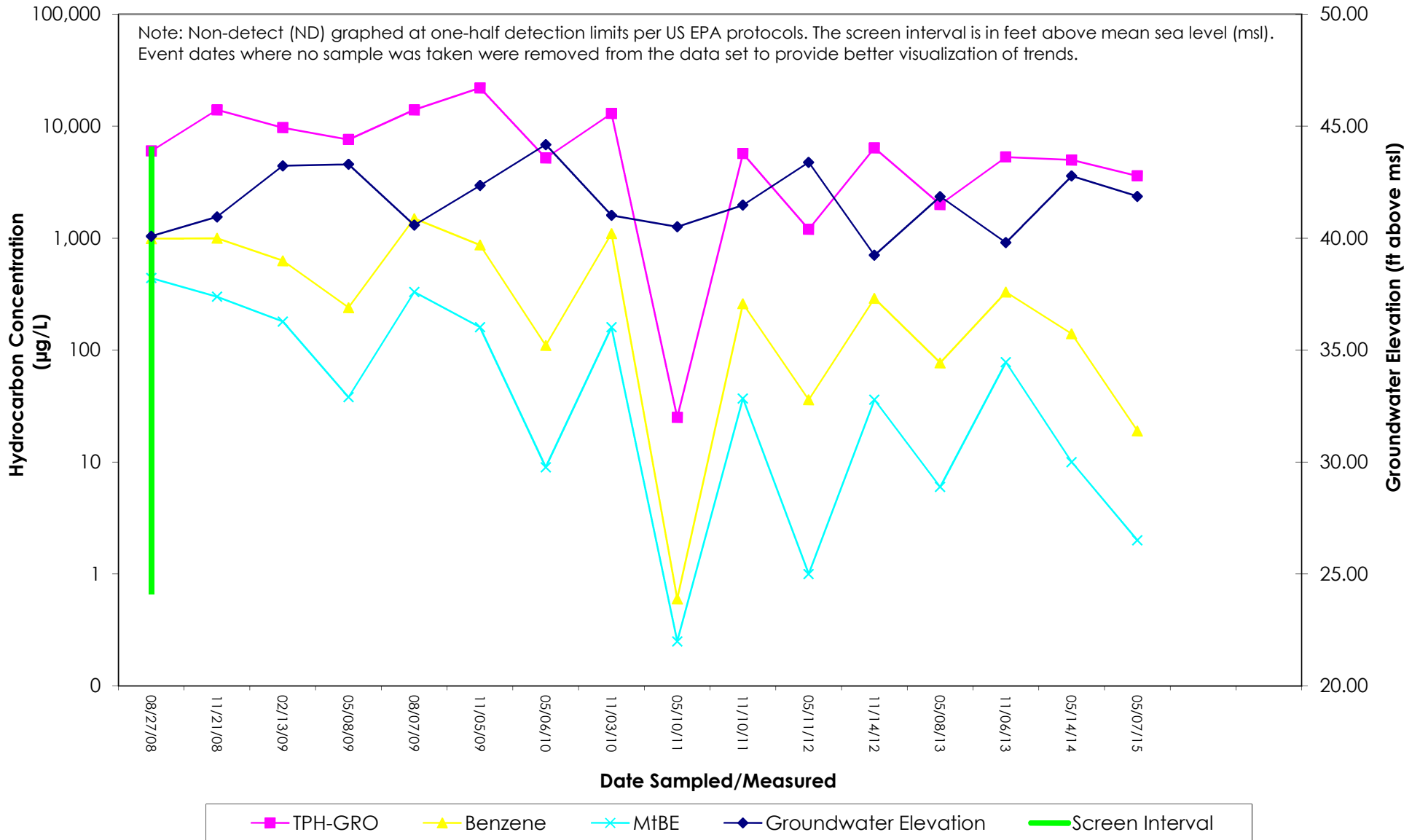
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ATTACHMENT C
Hydrographs

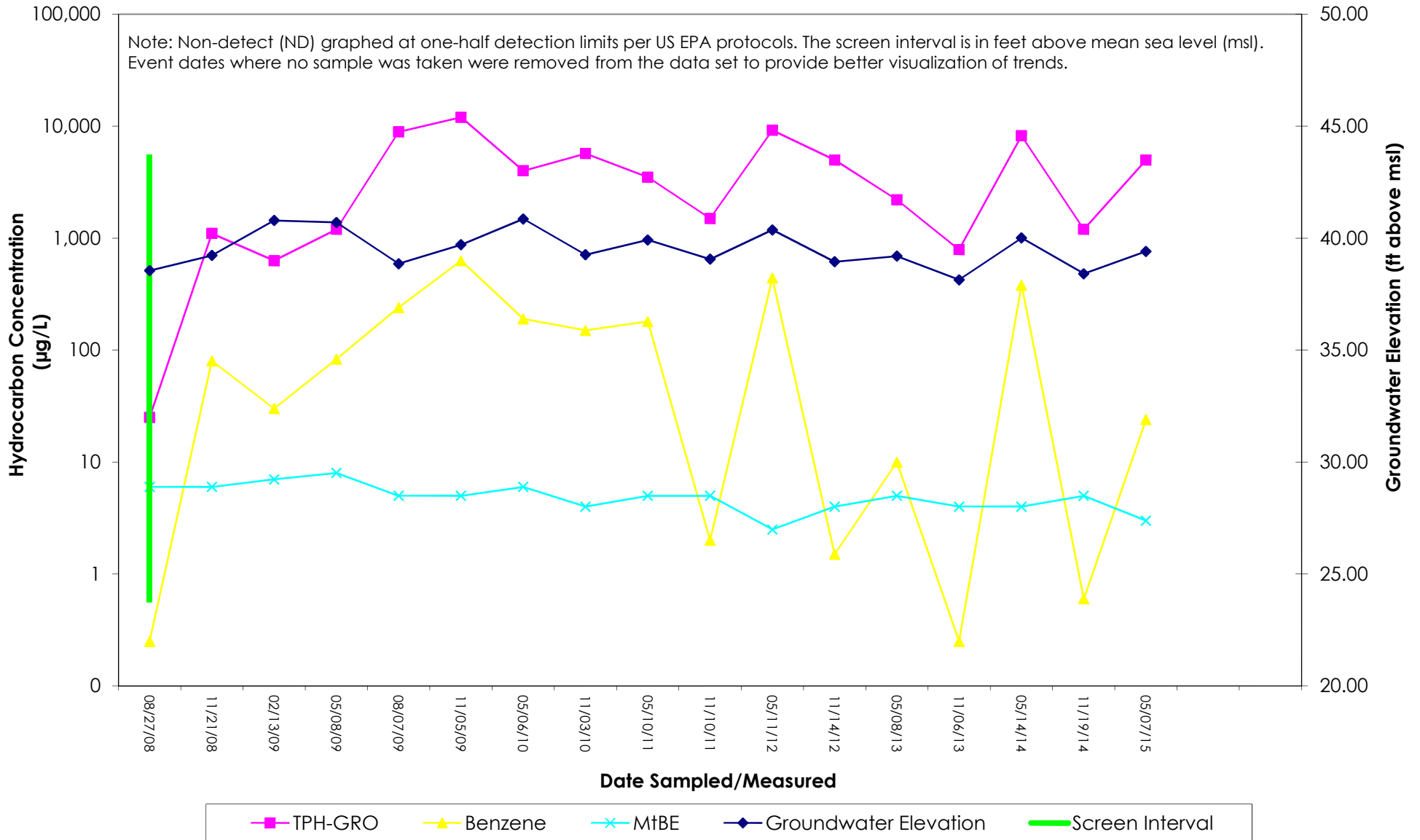
MW-5 TPH-GRO, Benzene, & MtBE Concentrations and Groundwater Elevations vs. Time
 Former Chevron-branded Service Station 92029
 890 West MacArthur Boulevard
 Oakland, California



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

